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SUMMARY OF SPECIFICATION REQUIREMENTS FOR MILITARY FABRICS

by

Testing Methodology Group

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UNITED STATES ARMY
NATICK LABORATORIES
Natick, Massachusetts 01760

Clothing & Organic Materials Laboratory
TS-102 (Revised)

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Natick, Massachusetts

CLOTHING & ORGANIC MATERIALS LABORATORY

Textile Series Report No. 102

Superseding Textile Series Report No. 102 dated December 1957,

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SUMMARY OF SPECIFICATION REQUIREMENTS FOR MILITARY FABRICS

Prepared by

Testing Methodology Function

Quality Assurance Branch, Standardization Division

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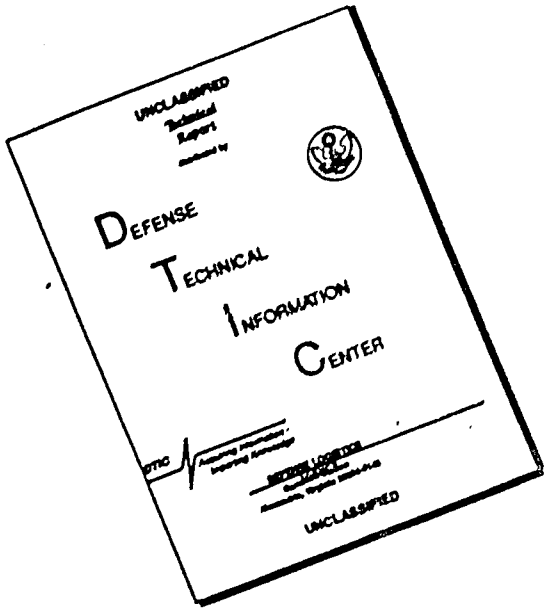

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FOREWORD

Since 1957 when this listing of Military specification requirements was last prepared and issued, the supply of copies has been exhausted. In view of the many continuing requests for copies of this report and due to the many changes which have occurred, it has become necessary to prepare a revised edition.

The present report supersedes Textile Series Report No. 102 dated December 1957.

Since the original issue in 1951 and the subsequent superseded issue of 1957 many changes have occurred in textile specifications. The direct effort at standardization has resulted in the combination and deletion of many specifications. New specifications representing the development of the synthetics to meet specific Military requirements have been added. In addition, many major changes have been implemented across-the-board under the Mandatory Contractor Inspection Program such as complete Quality Assurance Provisions in all specifications under the Point System.

The task of revising specifications requires that one keep abreast of changes in the state of the art, to add innovations such as the "Point System" in facilitating procurement, to standardize and improve on test methods, and to revise requirements and new requirements to meet changing Military needs.

In the use of this report, it is important to take into account the fact that specification requirements are subject to change. Such changes are reflected by issuance of amendments, new or revised specifications and/or interim procurement documents, or by deviations cited in Invitations to Bid. In this respect, it is essential that Invitations to Bid be carefully reviewed, as requirements stated at the time of actual procurement may supersede specification requirements stated herein.

STEPHEN J. KENNEDY
Director
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Approved:

W. M. MANTZ, Brigadier General
Commanding
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DALE H. SIELING
Scientific Director
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ABSTRACT

Specification requirements for military fabrics and related military textile materials such as felts and cordage are summarized in tables which give details for yarn, texture, finish and key performance parameters. Included are finishing, after-treatment specifications and test methods.

This report brings up to date and adds to the data contained in Textile Series Report No. 102 dated December 1957 (Revised).

GENERAL NOTES

COTTON CLOTHS - WOVEN

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) To be specified.
(2) Nonfibrous, etc., restrictions.
(3) See specification for applicable tolerances.
(4) Colormatching.
(5) Preproduction sample.
(6) Restrictions on use of sulfur dyes.
(7) See specification for weave diagrams and instructions.
(8) Yarns of grade and ply and length of staple to meet requirements.
(9) Formula approval required.
(10) Bid sample and laboratory report.
(11) Width exclusive of selvage.
(12) Width inclusive of selvage.
(13) See specification for requirements after laundering.
(14) See specification for woven design and insignia requirements.
(15) Use of dyestuffs which would cause deterioration in storage or cause dermatitis on prolonged skin contact is prohibited.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply	Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W F	W	F	W	F		W	F					
Damask, Table Cotton (in yards)																	
CCC-D-71																	
Type A	4.4 ± 2½%		Conservative Patterns (1)	58±1	--	116		45	50								
Type B	5.2 ± 2½%			64±1		135		50	55								
Type C	5.2 ± 2½%			72±1		135		50	55								
Type D	5.5 ± 2½%			54±1		78	76	64	74								
Type E	5.5 ± 2½%		"	64±1		78	76	64	74								
Type F	5.5 ± 2½%		"	72±1		78	78	64	74								
Handkerchief, Cotton																	
DDD-H-71d						(3)											
Type I - Men's 17 x 17 in.	2.0	(3)	Plain	--	--	93	78	30	25								
Type II - Women's 11 x 11 in.	2.0	(3)	"			93	78	30	25								
Handkerchiefs; Cotton Bandanna																	
DDD-H-74						(3)											
Type I - Blue	2.2 ± 5%		Plain	--	--	57	57	34	20								
Type II - Red	2 ± 5%		"			57	57	34	20								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-D-71 Type A Type B Type C Type D Type E Type F	(2) Bleached and mercerized. Types D, E, and F finished to prevent linting after repeated washings, and to prevent loss of luster and body for mercerization.			
DDD-H-71d Type I Type II	(2) Mercerized and singed.	Color (1) (6). Standard sample available for shade (4). Colorfastness - Standard sample available (5610-5600-5651-5680-5682).	(5)	
DDD-H-74 Type I Type II		Type I - Blue, with the usual bandanna handkerchief designs in white. Type II - Red, with the usual bandanna handkerchief designs in white. Colorfastness - (5660-5610-5651).		

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Washcloth, Terry, Cotton																		
DDD-W-80b	16 (a dozen)	-	Single loop terry (7)	-	2 or 1 (1)		68 (3)	35	40	35								
Cambric																		
CCC-C-81	2.4	-	Plain	(1)	--		100	90	50	32		5%	5%					
Sateen; Cotton																		
CCC-S-91a																		
Type I - Low Count	3.2	3.8	5-harness satin	(1)	--		66	98	30	30								
Type II - Medium Count	3.3	3.8					84	130	35	40								
Pajama-Check, Cotton																		
CCC-P-96																		
Type I - 80 x 80	3.25	-	(7) Pajama check	35½	1	1	85	72	40	26		1%	1%					
Type II - 88 x 88	3.50	-		32-3/4	1	1	94	80	52	35		1%	1%					
Scrim: Curtain																		
CCC-S-121	2.8	-	Plain	36±1	2	2	24	22	30	24								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
DDD-W-80b	(2) Desized and bleached white.	Color - Cloth shall be bleached white.		
CCC-C-81	Bleached and sized to a cambric finish.	Color (1).		
CCC-S-91a Type I Type II	(2) Clear, smooth, high luster finish.	Color (1). Colorfastness - (5660-5610).		
CCC-P-96 Type I Type II	(2) Desized and calendered to produce a soft, smooth, nainsook finish.	Bleached and tinted bluish white.		
CCC-S-121		Color (1).	Designs (1).	

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)	Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Bedspread, Cotton Or Cotton/Rayon Blend DDD-B-151e	Min. (of finished bedspread)	Max			W	F	W	F	W	F							
Type I - Crinkle																	
Size 1 - 63 x 97	24.0	-	(7)		1	1	72 in		50	50							
Size 2 - 63 x 106	25.5	-	(7)		1	1	plain	62	50	50							
Size 3 - 72 x 97	27.0	-	(7)		1	1	ground		50	50							
Size 4 - 72 x 106	29.0	-	(7)		1	1	62 in crinkle stripe		50	50							
Type II - Dimity 81 x 103	32.5	-	(7)		1	1	70	60	75	45							
Type III - Herring-bone Stripe 56 x 88	23.0	-	(7)		1	1	68	38	80	50							
Type IV - Corded																	
Size 1 - 63 x 103	38.0	-	(7)		1	1	65	32	85	70							
Size 2 - 76 x 103	46.0	-	(7)		1	1	incl.	32	85	70							
Size 3 - 76 x 113	47.0	-	(7)		1	1	the	32	85	70							
Size 4 - 90 x 113	57.0	-	(7)		1	1	cotton cords.	32	85	70							

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
DDD-B-151e Type I Size 1 Size 2 Size 3 Size 4 Type II Type III Type IV Size 1 Size 2 Size 3 Size 4	(2)	Type I - Color (1). Colorfastness - (5660-5612-5600). Type II - Bleached white. Marked for medical procurement (1). Type III - Color (1). Colorfastness - (5660-5612-5600). Type IV - Color (1). Colorfastness - (5660-5612-5600).	(5)	Standard sample available as guide. Bedspreads shall be made of cotton/rayon blend when so specified by purchaser.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range, Min. (5514)	Water Permeability Max. (5518)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Cotton, Chambray CCC-C-231f																		
Type I - Mercerized																		
Style A - 3.0 oz.	3.0	-	Plain	(1)	1	1	90	75	45	38		2%	2%	85%				26.00
Type II - Unmercerized																		
Style A - 5.3 oz.	5.3	-	"	(1)	1	1	67	58	75	52				85%				32.00
Style B - 4.3 oz.	4.3	-	"	(1)	1	1	68	50	65	34				85%				32.00
Sheet, Bed, Cotton CCC-S-281f, Amd. 2																		
Type I - 140	4.5	-	Plain	(1)	--		74	66	70	70								(1)
Type II - 128	4.0	-	"	(1)	--		60	60	55	55								(1)
Type III - 180 (Percale)	3.5	-	"	(1)	--		92	88	60	60								(1)

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-231f Type I Style A Type II Style A Style B	(2) Type I - Singed, desized and mercerized, with a clear lustrous finish (standard sample available). Type II - Regular commercial finish.	Color (1) - Standard Sample available (4-6). Colorfastness - Standard sample available. Type I - (5660-5610-5600 5680-5651). Type II - (5660-5610).	Dyed warps for Type I and Type II. Bleached filling for Type I. Natural white filling for Type II.	Intended Use - For the fabrication of clothing items.
DDD-S-281f Type I Type II Type III	(2)	Color (1). Colorfastness - Standard sample available (5600).		

Size	Width	Length Cut or Torn
1	45 in.	72 in.
2	54 in.	90 in.
3	54 in.	99 in.
4	63 in.	99 in.
5	63 in.	106 in.
6	72 in.	106 in.
7	72 in.	108 in.
8	90 in.	114 in.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cheesecloth; (For) Wiping Purposes (Remnants and Seconds) DDD-C-301, Amd. 2																		
Type I - Bleached																		
Class A - Short lengths or remnants	½	2½	Plain	(3) 20-40														
Class B - Long lengths	½	2½	"	20-40														
Type II - Unbleached																		
Class A - Short lengths or remnants	½	2½	"	20-40														
Class B - Long lengths	½	2½	"	20-40														
Cloth, Cotton, Uniform Twill, Light-Weight MIL-C-304D																		
Type I - 5.0 oz. Combed	4.5	5.5	2 rt. / 2 twill	(1)	1	1	126	64	100	55	Preshrunk	1%	1%	80%				30.00 for dyed
Type II - 5.5 oz. Carded	5.5	6.0	2 rt. / 1 twill	(1)	1	1	72	64	50	60		1%	1%	80%				35.00 for white
Type III - 5.5 oz. Combed	5.5	6.0	3 rt. / 1 twill	(1)	1	1	116	58	150	50		1%	1%	80%				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
DDD-C-301 Type I Class A Class B Type II Class A Class B	Bleached or unbleached (1).		Class A - short lengths shall be of not less than 1 yard. Class B - long lengths shall be of not less than 10 yards.	
MIL-C-304D Type I Type II Type III	(2) Singed and mercerized, with a clear, lustrous finish.	Color (1) - Standard sample available (4-6). Colorfastness - Standard sample available - (5610-5600-5651-5680-5682-5660).		Intended Use - Type I - In the manufacture of shirts. Type II - For pockets and various component parts. Type III - For utility shirts worn by female personnel of the Marine Corps.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Cotton, Silesia MIL-C-326E																		
				(11)								Preshrunk						
Type I - 5.0 oz.	-	-	1	35	-	-	72	72	60	60		2%	2%	80%				28.00
Type II - 4.0 oz.	-	-	2	35	-	-	72	72	50	30		2%	2%	80%				for dyed
Type III - 6.0 oz.	-	-	right or left hand twill	35	-	-	72	78	65	90		2%	2%	80%				32.00 for white
Cloth, Balloon, Cotton MIL-C-332E, Amd. 1(OL)																		
Class 1 - Unbleached												Preshrunk (1)						
Type I - 3.9 oz.	-	3.90	Plain	(1)	1	1	124	118	70	70		1%	1%	85%				30.00
Type III - 2.25 oz.	-	2.25	"	(1)	1	1	116	124	40	40		1%	1%	85%				30.00
Type IV - 3.6 oz.	-	3.60	"	(1)	1	1	96	100	55	55		1%	1%	85%				30.00
Class 2 - Dyed and finished																		
Type I - 3.9 oz.	-	3.90	Plain	(1)	1	1	126	112	63	63		1%	1%	85%	25(13)	30(13)		25.00
Type III - 2.25 oz.	-	2.25	"	(1)	1	1	120	120	35	35		1%	1%	85%				25.00
Type IV - 3.6 oz.	-	3.60	"	(1)	1	1	100	95	50	50		1%	1%	85%				25.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-326E Type I Type II Type III	(2) Singed and desized.	Color (1) - Standard sample available (4-6) Colorfastness - Standard sample available - (5622-5680-5651).	Width of each selvage shall not exceed ¼ in.	Intended Use - In clothing and equipage items for personnel.
MIL-C-332E Class 1 Type I Type III Type IV Class 2 Type I Type III Type IV	(2) Class 1 - Unbleached. Class 2 - Singed before dyeing and finishing. Type I, Class 1, Types III & IV, Classes 1 and 2 - when specified, cloth shall be given a water-repellent finish. Type I, Class 2 - when specified, cloth shall be given an approved durable water-repellent treatment. Initial spray rating shall be 90, 90, 80 min. (5526). Down and feather retention - "satisfactory" (5530).	Color - Class 2 (1)-standard sample available (4-6). Colorfastness - Class 2 - standard sample available (5660-5622-5610-5600).		Intended Use - In the manufacture of clothing and equipage items. Type I - In sleeping bags.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Wind Resistant, Twill and Poplin, Cotton MIL-C-342E	Min	Max			W	F	W	F	W	F		W	F					
Type I - Twill												Preshrunk						
Class C - Fire, water, mildew res.	5.8	7.0	2 right 2twill	(1)	2	2	185	90	160	70	3-7	2%	2%	60%		40		28.00 dyed
Type II - Poplin																		32.00 white
Class A Plain fin.	5.5	6.5	Plain	(1)	2	1-2	106	52	125	70	16	2%	2%	80%				
Class B - Quarpel treated	6.0	7.0	"	(1)	2	1-2	106	52	116	60	-	2%	2%	80%	20(13)	35(13)		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-342E Type I Class C Type II Class A Class B	(2) Singed, desized, mercerized, and dyed. Use of resin pigments in dyeing or finishing of Type II is prohibited. Type I, Class C shall be given an approved durable fire resistant treatment. Average time of after-flame - 2.0 sec. max. Average length of char - 5.5 in. max. Initially and after 3 cycles of laundering (5903-5556). The cloth shall be given an approved durable water repellent treatment. Type II, Class B shall be given an approved Quarpel-type water repellent treatment. Spray rating - 90, 90, 80 min. (5526). Use of materials other than approved water repellents and sodium acetate buffer (and acetic acid) is prohibited. Shall show no wetting by n-tetradecane initially or after 15 launderings (4.4.2). pH: Type I, Class C - 5.5 min. Type II, Class B - 6.5-8.5 (2811).	Color (1) - standard sample available (4-6). Colorfastness - standard sample available. Type I Class C - (5651-5671). Type II, Classes A & B - (5610-5600-5651- 5622-5680-5660).	Type I, Class C & Type II, Class B - (10). All types and classes - preproduction sample approval required when specified. Tearing strength shall be: Type I, Class C - 2.3 lb. min. in the warp and 1.5 lb. min. in the filling; Type II, Class A - 3.8 lb. min. in the warp and 3.3 lb. min. in the filling (5132).	Intended Use - In the manufacture of clothing and equipage items. Type I, Class C is not intended for uses as furniture coverings or items of clothing which involve prolonged or frequent contact with the skin.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)	Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Paint Value Max.
	Min	Max			W	F	W	F	W	F							
Cloth, Cotton, Awning CCC-C-406a																	
Type I - Awning Cloth, Yarn-dyed Stripes	(3)		2 sin. W-	(3)							Weight lin. yd. (3)						
Class 1 - 8.42 oz.	8.4		yarns, sin. F	31	1	1	61	28	150	70	7.2					20.32	
Class 2 - 10.00 oz.	10.0		2 ply W. & F	31	2	2	72	36	180	90	8.6					25.40	
Class 3 - 12.00 oz.	12.0		"	31	2	2	72	38	210	90	10.3					25.40	
Class 4 - 15.00 oz.	15.0		"	28½	2	2	68	34	240	120	13.0					25.40	
Type II - Awning Cloth, Painted Stripes or Painted (Tinted) Solid Colors.	13.0		"	28½	2	2	54	42	170	120	10.5					25.40	
Type III - Awning Cloth, Piece Dyed	10.1		"	28½	2	2	54	42	180	110	8.0					25.40	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-406a Type I Class 1 Class 2 Class 3 Class 4 Type II Type III	Mildew resistant. After weathering, cloth shall show no increase in mildew growth (5804-5760). Cloth shall show max. loss of 15% of breaking strength after weathering and mildew test. Water resistant. Water resistance of untreated (unfinished) cloth shall have not more than a leakage of 50 cc. at pressure indicated in table using test method indicated in specification, para. 3.7.	Color (1). Colorfastness - (5651-5760). Pattern (1).		

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Duck, Cotton, Unbleached, Plied-Yarns, Army And Numbered CCC-C-419b																		
Type I - Numbered Duck, Hard Texture:																		
12/0	48.00	-	Plain	(1)	9	9	20	12	800	430								40.00
8/0	40.00	-	"	(1)	8	14	26.5	12.5	750	600								40.00
2/0	31.90	-	"	(1)	5	7	24	16	465	435								40.00
1/0	30.31	-	"	(1)	5	6	24	16	450	405								40.00
1	28.71	-	"	(1)	5	5	26	19	440	370	2							40.00
2	27.12	-	"	(1)	5	4	26	19	420	345								40.00
3	25.53	-	"	(1)	4	5	29	20	390	[illegible]								40.00
4	23.93	-	"	(1)	4	4	31	22	375	300	2							40.00
5	22.33	-	"	(1)	3	4	35	23	345	285								40.00
6	20.74	-	"	(1)	3	3	35	25	335	250	2							40.00
8	17.55	-	"	(1)	3	3	43	25	285	210	2							40.00
10	14.35	-	"	(1)	3	3	45	27	245	160	4							40.00
11	12.75	-	"	(1)	3	2	45	34	240	140								40.00
12	11.26	-	"	(1)	2	2	45	35	195	120	4							40.00
Medium Texture:																		
1	28.71	-	"	(1)	5	5	26	15	425	345								40.00
2	27.12	-	"	(1)	5	4	26	15	410	320								40.00
3	25.53	-	"	(1)	4	5	29	15	370	315								40.00
4	23.93	-	"	(1)	4	4	29	17	350	290								40.00
5	22.33	-	"	(1)	3	4	34	18	315	285								40.00
6	20.74	-	"	(1)	3	3	34	18	305	250								40.00
Type III - Army Duck																		
8.25	8.25	-	"	(1)	2	2	60	58	125	120								
9.85	9.85	-	"	(1)	2	2	52	40	160	110	4							40.00
12.29	12.29	-	"	(1)	3	2	44	34	210	130	4							40.00
14.77	14.77	-	"	(1)	3	3	44	28	235	175								
15.90	15.90	-	"	(1)	3	3	45	34	245	200								
18.48	18.48	-	"	(1)	4	4	42	28	315	200								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-419b Type I Hard Texture Medium Texture Type III	(2) Unbleached.			Intended Use - In fabrication of tentage and equipage items.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5100)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Denim, Cotton, Shrunk and Unshrunk CCC-C-421a	Min	Max			W	F	W	F	W	F		W	F					
Type I																		
Class 1 - Unshrunk	8.04	-	2/1 right twill	(1)	1	1	62	39	145	53		Preshrunk						40.00
Class 2 - Shrunk	8.78	-	3-harness	(1)	1	1	63	42	145	58		2%	2%					40.00
Type II																		
Class 1 - Unshrunk	8.95	-	"	(1)	1	1	66	43	150	65		Preshrunk						40.00
Class 2 - Shrunk	9.75	-	"	(1)	1	1	67	46	150	70		2%	2%					40.00
Type III																		
Class 1 - Unshrunk	9.85	-	"	(1)	1	1	68	42	167	70		Preshrunk						40.00
Class 2 - Shrunk	10.97	-	"	(1)	1	1	69	45	167	75		2%	2%					40.00
Type IV																		
Class 1 - Unshrunk	11.06	-	"	(1)	1	1	70	42	177	85		Preshrunk						40.00
Class 2 - Shrunk	12.30	-	"	(1)	1	1	71	45	177	90		2%	2%					40.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-421a Type I Class 1 Class 2 Type II Class 1 Class 2 Type III Class 1 Class 2 Type IV Class 1 Class 2	(2) pH: 8.0-10.0.	Color (1) - Standard sample available (4). Style A - white-back cloth with dyed warp yarns & white or tinted filling yarns. Style B - dyed warp & filling yarns. Colorfastness - Standard sample available - (5660-5630-5610-5651).		Intended Use - In the manufacture of clothing items.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Blanket, Bed (Other Than Wool) - (See also under Mixed Fiber Cloths) DDD-B-421e																		
Type I - All cotton																		
Class 1 - Twill, double filling																		
Size 1 - 30x40 in.	7.8	9.0	(7)	-	(8)		30	35	23	15		11%	6%					
Size 2 - 60x84 in.	3.0#	3.2#	(7)	-	(8)		37	36	30	25		11%	6%					
Size 3 - 66x84 in.	3.3#	3.5#	(7)	-	(8)		37	36	30	25		11%	6%					
Size 4 - 66x90 in.	3.45#	3.7#	(7)	-	(8)		37	36	30	25		11%	6%					
Class 2 - Plain, single filling																		
Size 1 - 70x84 in.	1.2#	1.3#	(7)	-	(8)		35	24	28	15		12%	6%					
Size 2 - 72x90 in.	1.5#	1.7#	(7)	-	(8)		27	28	27	17		12%	6%					
Type II - Cotton warp wool filling (see under Mixed Fiber Cloths)																		
Type III - Blended nylon-wool-rayon-cotton and other fibers (see under Mixed Fiber Cloths)																		
Cloth, Cotton, Muslin (Mercerized) CCC-C-00422a(GSA-FSS)	5.0	-	Plain	35-36	1	1	53	46	60	60		Preshrunk 1%	1%					28.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
DDD-B-421e Type I Class 1 Size 1 Size 2 Size 3 Size 4 Class 2 Size 1 Size 2 Type II Type III	(2) Nap and hand - standard sample available.	Color - Type I (1) - standard sample available (4). The wool shall be so selected as to avoid the presence of black fibers. Colorfastness - Type I - standard sample available (5600-5651). See specification for information on marking (1).	Wool grade not lower than 44's, U.S.Std.	
CCC-C-00422a	(2) Mercerized, with a crisp, lustrous finish - standard sample available. No change in appearance or hand after three launderings (5550).	Color (1) - standard sample available (4-6). Colorfastness - standard sample available - (5660-5610-5680-5651).	(5)	Intended Use - As dress goods and suiting material.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5350)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Birdseye And Gauze; Cotton CCC-C-425b	Min	Max			W	F	W	F	W	F		W	F					
Type I - Birdseye single layer	4.0	-	Sin. layer birdseye	26½-27½			60	48	40	60		20% total			80% min.			45.00
Type II - Gauze double layer	3.35	-	Dou. layer Plain, Birdseye, or interlocking. (7).	39½-40½			total 74 sin. ply		45	25		20% total			80% min.			45.00
Cloth, Drill, Cotton CCC-C-426c																		
Type I - 30 in. 72x60, 2.50 yd.																		
Class 1 - Greige	7.7	-	3 harness 2 left I Twill	(1)	1	1	72	60	130	90				80%				45.00
Class 2 - Desized and preshrunk	7.5	-		(1)	1	1	74	58	120	85		Preshrunk 2%	2%	80%				45.00
Class 3 - Bleached white or dyed and preshrunk	6.5	-	"	(1)	1	1	74	56	105	70		2%	2%	80%				35.00*
Type II - 30 in. 72x48, 2.50 yd.																		
Class 1 - Greige	7.7	-	"	(1)	1	1	72	48	130	85				80%				45.00
Class 2 - Desized and preshrunk	7.5	-	"	(1)	1	1	74	46	120	72		Preshrunk 2%	2%	80%				45.00
Class 3 - Bleached white or dyed and preshrunk	6.0	-	"	(1)	1	1	74	44	105	62		Preshrunk 2%	2%	80%				35.00*

(Continued)

*42.00 for any bleached

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-425b Type I Type II	(2) Cleaned and bleached.	Color - white. -		Intended Use - In the fabrication of infant diapers.
CCC-C-426c Type I Class 1 Class 2 Class 3 Type II Class 1 Class 2 Class 3	(2)	Color - Classes 1 & 2 - natural color. Class 3 - (1) - standard sample available (4-6). Colorfastness - Class 3 - standard sample available - (5660-5610-5622-5651-5680).		Intended Use - In clothing and equipage items.

(Continued)

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5530)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure Low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Drill, Cotton CCC-C-426c (Cont'd)																		
Type III - 30 in. 72x48, 2.85 yd.																		
Class 1 - Greige	6.7	-	3 harness 2 left 1 twill	(1)	1	1	72	48	110	65		Preshrunk		80%				45.00
Class 2 - Desized and preshrunk	6.5	-		(1)	1	1	74	46	100	60		2%	2%	80%				45.00
Class 3 - Bleached white or dyed and preshrunk	6.0	-	"	(1)	1	1	74	44	90	55		2%	2%	80%				35.00*

Cloth, Duck, Cotton; Fire, Water, Weather, and Mildew Resistant CCC-C-428d

Type I - Cloth fin. in Olive Drab #7.
Class 1 - Reg. fin.
Class 2 - Dry fin.

Type II - Cloth fin. in deck grey color
Class 1 - Reg. fin.
Class 2 - Dry fin.

See CCC-C-419, CCC-C-443, or MIL-C-2384 for basic cloth requirements, except that non-fibrous material for CCC-C-443 & MIL-C-2384 shall be as specified in 3.4.1.1.
Weight of finished cloth shall be the actual weight of the grey cloth plus an allowance for treatment of 50% for a grey weight of 12 oz. or over and 65% for a grey weight of under 12 oz.

CCC-C-419 cloth designations	Flexibility: Initial bending moment in/lb, max.	Flexibility: After heating at 200°-205°F (bending moment in/lb, max.	Flexibility: At 0° ± 5°F (bending moment in/lb, max.		
Numbered				50 ml.	40.00
2	0.16	0.400	0.400	50 ml.	40.00
4	0.12	0.300	0.300		
6	0.06	0.180	0.180		
8	0.05	0.125	0.125		
10	0.03	0.075	0.075		
12	0.02	0.050	0.050		
Army Ducks					
8.25	0.013	0.032	0.032	50 ml.	40.00
9.85	0.013	0.032	0.032	50 ml.	40.00
12.29	0.013	0.032	0.032		

*42.00 for any bleached.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-426c (Cont'd) Type III Class 1 Class 2 Class 3				
CCC-C-428d Type I Class 1 Class 2 Type II Class 1 Class 2	(2) Compound to provide fire, water, weather, and mildew resistance shall be well ground and blended. Compounds containing sulfur may be used when approved (9). Water resistance: water resistance requirements pertain only to those cloths of CCC-C-443 having weights of 14.90 and 17.55 oz/sq yd and to all ducks of CCC-C-419 and MIL-C-2384. Flame resistance - time of flaming shall not exceed 2 sec. (5903T). Average length of char shall not exceed 4.5 in. for cloth with an untreated weight of under 10 oz.; 3.5 in.. for cloth of 10-20 oz.; and 2.0 in., for cloth of over 20 oz. Mildew resistance - Type I - an approved fungicide shall be used - see 3.5.10.1. Type II - an approved fungicide shall be used.	Color (1) - standard sample available (4). Color shall be obtained by materials not appreciably affected by weathering (5671). Colorfastness - standard sample available (5671). Crocking - Class 1 - max. Munsell neutral value of 5.0 (5651). Class 2 - max. Munsell neutral value of 7.0 (5651).	(10)	Intended Use - Class 1 - In the manufacture of canvas covers, tents, tarpaulins, and other duck items providing protection under conditions of prolonged outdoor use. Class 2 - As upholstery material in motorized vehicles and uses where a higher degree of resistance to crocking is required.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Osnaburg, Cotton CCC-C-429b																		
Class 2	6.8	-	Plain	(1)	1	1	38	24	60	60								60.00
Class 3	5.4	-	"	(1)	1	1	32	26	50	50								60.00
Class 5	3.9	-	"	(1)	1	1	28	24	40	40								60.00
Cloth, Sheeting, Cotton CCC-C-430c, Amd. 1																		
Style A - #140																		
Type I - Unbleached							(3)											
Class 1 - Unshrunk	4.7	-	Plain	(1)	carded		68	72	70	70								45.00
Class 2 - Shrunk	4.8	-	"	(1)	"		74	69	70	70		2%	2%					45.00
Type II - Bleached or dyed																		dyed
Class 1 - Unshrunk	4.5	-	"	(1)	"		74	66	70	70								30.00
Class 2 - Shrunk	4.6	-	"	(1)	"		74	69	70	70		2%	2%					35.00
																		white
Style B - #128																		
Type I - Unbleached																		
Class 1 - Unshrunk	4.1	-	"	(1)	"		64	64	55	55								45.00
Class 2 - Shrunk	4.2	-	"	(1)	"		70	63	55	55		2%	2%					45.00
Type II - Bleached or dyed																		dyed
Class 1 - Unshrunk	4.0	-	"	(1)	"		68	60	55	55								30.00
Class 2 - Shrunk	4.1	-	"	(1)	"		70	63	55	55		2%	2%					35.00
																		white
Style C - #180(Percale)																		
Type II - Bleached																		
Class 1 - Unshrunk	3.5	-	"	(1)	combed		92	88	60	60								35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-429b Class 2 Class 3 Class 5	(2)	Color - natural.		Intended Use - As packaging, packing, and target cloth.
CCC-C-430c Style A Type I Class 1 Class 2 Style B Type I Class 1 Class 2 Style C Type II Class 1	(2) Type I - Unbleached. Type II - Bleached or dyed.	Color (1) - standard sample available (4-6). Colorfastness - standard sample available for dyed cloth (5660-5610-5600-5651).		Intended Use - In clothing, bedding material, and equipage items.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Cotton, Sheeting, (Unbleached, Bleached, And Dyed) CCC-C-432b	Min	Max			W	F	W	F	W	F		W	F					
Type I																		
Class 1 - Unbleached	3.4	-	Plain	(1)	1	1	44	46	40	35								45.00
Class 2 - Bleached, dyed	3.2	-	"	(1)	1	1	46	38	37	32		7.5%	2.0%	80%				35.00
Class 3 - Bleached, dyed preshrunk	3.5	-	"	(1)	1	1	48	42	38	33		2.0%	2.0%	80%				35.00
Type II																		
Class 1 - Unbleached	3.3	-	"	(1)	1	1	56	48	44	29								45.00
Class 2 - Bleached, dyed	3.1	-	"	(1)	1	1	58	46	41	26		7.5%	2.0%	80%				35.00
Class 3 - Bleached, dyed preshrunk	3.4	-	"	(1)	1	1	60	50	42	27		2.0%	2.0%	80%				35.00
Type III																		
Class 1 - Unbleached	3.8	-	"	(1)	1	1	48	48	48	35								45.00
Class 2 - Bleached, dyed	3.6	-	"	(1)	1	1	50	46	44	32		7.5%	2.0%	80%				35.00
Type IV																		
Class 1 - Unbleached	4.3	-	"	(1)	1	1	48	44	55	40								45.00
Class 2 - Bleached, dyed	4.1	-	"	(1)	1	1	50	42	52	37		7.5%	2.0%	80%				35.00
Class 3 - Bleached, dyed preshrunk	4.4	-	"	(1)	1	1	52	46	54	38		2.0%	2.0%	80%				35.00
Type V																		
Class 1 - Unbleached	4.0	-	"	(1)	1	1	56	60	45	40								45.00
Class 2 - Bleached, dyed	3.8	-	"	(1)	1	1	58	58	41	37		7.5%	2.0%	80%				35.00
Class 3 - Bleached, dyed preshrunk	4.1	-	"	(1)	1	1	60	62	43	38		2.0%	2.0%	80%				35.00

(Continued)

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-432b Type I Class 1 Class 2 Class 3 Type II Class 1 Class 2 Class 3 Type III Class 1 Class 2 Type IV Class 1 Class 2 Class 3 Type V Class 1 Class 2 Class 3 (Continued)	(2) When Class 1 or Class 2 cloth is specified for use as the base cloth for coating, the cloth shall be singed, scoured, and calendered. It shall contain not more than 0.003% copper or 0.0015% manganese (D-377, ASTM manual). Mildew resistance - Class 2 (1) cloth shall be made to conform to finished requirements of Class D of CCC-D-950, except that the requirement for colorfastness, as specified, shall not apply. Treatment shall be in accordance with inhibitor (a) of CCC-C-950. Water repellency and mildew resistance - Class 2 (1) shall be made to conform to the finished requirements of Class B of CCC-D-950, except that the requirements for hydrostatic resistance and colorfastness as specified shall not apply. Treatment shall be in accordance with inhibitor (a) of CCC-D-950.	Color - Classes 2 & 3 (1) - standard sample available (4-6). Colorfastness - standard sample available for dyed cloth - (5660-5600-5610-5680-5651).		Intended Use - In the manufacture of clothing and equipage items.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Cotton, Sheeting, (Unbleached, Bleached, and Dyed)	Min	Max			W	F	W	F	W	F		W	F					
CCC-C-432b (Cont'd)																		
Type VI																		
Class 1 - Unbleached	4.6	-	Plain	(1)	1	1	64	68	55	50								45.00
Class 2 - Bleached, dyed	4.4	-	"	(1)	1	1	66	66	50	47		7.5%	2.0%	80%				35.00
Class 3 - Bleached, dyed preshrunk	4.7	-	"	(1)	1	1	68	68	51	48		2.0%	2.0%	80%				35.00
Type VII																		
Class 1 - Unbleached	5.0	-	"	(1)	1	1	46	48	60	50								45.00
Class 2 - Bleached, dyed	4.8	-	"	(1)	1	1	50	46	56	47		7.5%	2.0%	80%				35.00
Class 3 - Bleached, dyed preshrunk	5.1	-	"	(1)	1	1	52	48	57	48		2.0%	2.0%	80%				35.00
Type VIII																		
Class 1 - Unbleached	5.6	-	"	(1)	1	1	48	48	65	55								45.00
Class 2 - Bleached, dyed	5.4	-	"	(1)	1	1	50	46	61	52		7.5%	2.0%	80%				35.00
Class 3 - Bleached, dyed preshrunk	5.7	-	"	(1)	1	1	52	48	62	53		2.0%	2.0%	80%				35.00
Cloth, Cotton, Sheeting (Laundry Cover Cloth)																		
CCC-C-435b				(3)			(3)											
Class 1 - 72 in. wide	6.9	7.3	Plain	72 nom.	1	1	56	58	85	100								35.00
Class 2 - 90 in. wide	6.9	7.3	"	90 nom.	1	1	56	58	85	100								35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-432b (Cont'd) Type VI Class 1 Class 2 Class 3 Type VII Class 1 Class 2 Class 3 Type VIII Class 1 Class 2 Class 3				Intended Use - The cloth of Types VI, VII and VIII in Class 1 or 2 may be used as base material for coated fabrics.
CCC-C-435b Class 1 Class 2	(2)	Color - Unbleached.		

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Ticking Twill, Cotton CCC-C-436c																		
Type I - 9 oz/sqyd																		
Class 1 - Untreated	8.5	9.5	3/1 twill	(1-3)	1	1	78	62	135	90								35.00
Type II - 7 oz/sqyd																		
Class 1 - Untreated	6.5	7.5	2/1 twill	(1-3)	1	1	70	44	110	60		Preshrunk						35.00
Class 2 - Treated	6.5	+130%		(1-3)	1	1	70	39.6 min	93.5 min	51 min		2%	2%					35.00
Cloth, Cotton, Broadcloth, Mercerized CCC-C-437b																		
												Preshrunk						
Type I - 148x74	3.5	-	Plain	(1)	1	1	148	74	74	28		1%	1%	85%				
Type II - 140x56	3.2	-	"	(1)	1	1	140	56	65	25		1%	1%	85%				
Type III - 132x64	3.2	-	"	(1)	1	1	132	64	75	30		1%	1%	85%				
Type IV - 116x56	3.2	-	"	(1)	1	1	116	56	60	25		1%	1%	85%				
Type V - 102x56	3.2	-	"	(1)	1	1	102	56	55	25		1%	1%	85%				
Type VI - 82x56	2.8	-	"	(1)	1	1	82	56	30	25		1%	1%	85%				
Class 1 - Bleached																		
Class 2 - Unbleached																		
Class 3 - Dyed																		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-436c Type I Class 1 Type II Class 1 Class 2	(2) Type II, Class 2 shall be given an approved flame-resistant treatment. Average flaming time 2.0 sec. max. (5903T). Average length of char 5.0 in. both initially and after 15 launderings (5903T).	Color - Alternating natural white & blue "dyed" warp stripes, which may be either solid or broken by white warp ends. The white stripe shall be about ¼ in. wide & the blue stripe shall be about 3/16 in. wide - standard sample available (4). Colorfastness - standard sample available (5630).		Intended Use - In the manufacture of mattress and pillow covers. Type I - For pillows containing feathers or down, and mattresses containing hair. Type II - For all other mattresses.
CCC-C-437b Type I Type II Type III Type IV Type V Type VI	(2) Singed, desized, and mercerized, with a clear, lustrous finish. Class 1 shall be bleached.	Color (1) - standard sample available (4-6). Colorfastness - standard sample available - (5660-5600-5630-5651-5610).		Intended Use - In the manufacture of men's and women's shirts.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd. Min	Weight Oz./Sq. Yd. Max	Weave	Width Inch	Yarn Ply W	Yarn Ply F	Yarns Per Inch Min. (5050) W	Yarns Per Inch Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Air Permeability (5450)	Shrinkage Max. (5550) W	Shrinkage Max. (5550) F	Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Cheesecloth, Cotton, Bleached And Unbleached CCC-C-440c																		
												(a) Yarns/Inch (3)						
												W	F	Total				
Type I - 44x36				(12)														
Class 1 - Unbleached	1.60	1.88	Plain	38½	-	-	(a)		22	10		41-47	33-39	76-84				70.00
Class 2 - Bleached	1.35	1.59	"	38½					20	9		41-47	33-39	76-84				60.00
Type II - 28x24																		
Class 1 - Unbleached	0.98	1.16	"	36					10	5		26-30	22-26	49-55				70.00
Class 2 - Bleached	0.87	1.03	"	36					8	4		26-30	22-26	49-55				60.00
Cloth, Corduroy, Cotton CCC-C-441a																		
Type I - Unbleached, unshrunk															Wales/in. min.			
Class 1	8.5	-	Single or	(1)	Single		45	126	65	60					14			45.00
Class 2	10.5	-	Double tie	(1)	or ply		58	142	76	74					12			45.00
Type II - Dyed and shrunk												Preshrunk						
Class 1	7.2	-	"	(1)	"		46	126	60	55		5%	3%		15			35.00
Class 2	9.5	-	"	(1)	"		59	142	70	66		5%	3%		12½			35.00
Cloths, Polishing DDD-C-441b	3.5	-	--	--	1	1	45	42	25	11								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-440c Type I Class 1 Class 2 Type II Class 1 Class 2	Class 1 - Unbleached. Class 2 - Bleached.			Intended Use - In items of clothing and for polishing and cleaning operations.
CCC-C-441a Type I Class 1 Class 2 Type II Class 1 Class 2	(2) Type I - Unbleached and unshrunk. Type II - preshrunk.	Color - Type I - natural. Type - (1) - standard sample available (4-6). Colorfastness - standard sample available for dyed and finished cloth - (5660-5610-5600-5680-5651).	(a)For double tie type the minimum number of warp yarns shall be twice that here specified.	Intended Use - In the manufacture of clothing items.
DDD-C-441b	Soft finish; lightly napped on both sides.	Any color or colors.		

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Duck, Cotton Bleached CCC-C-442b												Preshrunk						
Type I	5.0	-	Plain 1up/1down	(1)	2	2	77	44	130	75		2%	2%					35.00
Type II	7.0	-	(7)	(1)	1	2	88	28	110	60		2%	2%					35.00
Type III	8.2	-	Plain 1up/1down	(1)	2	2	58	48	135	100		2%	2%					35.00
Type IV	8.5	-	(7)	(1)	1	4	112	32	120	120		2%	2%					35.00
Type V	7.0	-	Plain 1up/1down	(1)	2	2	52	34	80	48		2%	2%					35.00
Cloth, Cotton, Duck; (Single and Plied Filling Yarns, Flat) CCC-C-443b, Amd. 1							(a)											
Type I - Single Fill.	7.26	-	Oxford	(1)-$\frac{1}{4}$	1	1	74	27	90	55	-							40.00
	8.47	-	2 ends	(1)-$\frac{1}{4}$	1	1	74	27	100	65	-							40.00
	10.00	-	weaving	(1)-$\frac{1}{4}$	1	1	74	27	130	85	-							40.00
	10.89	-	as one-	(1)-$\frac{1}{4}$	1	1	74	26	135	95	-							40.00
	12.10	-	Plain	(1)-$\frac{1}{4}$	1	1	72	26	160	105	-							40.00
	13.32	-		(1)-$\frac{1}{4}$	1	1	72	26	165	110	-							40.00
	14.53	-		(1)-$\frac{1}{4}$	1	1	72	25	170	120	-							40.00
	14.90	-		(1)-$\frac{1}{4}$	1	1	76	28	180	160	-							40.00
	17.55	-		(1)-$\frac{1}{4}$	1	1	86	27	270	245	4							40.00
	18.15	-		(1)-$\frac{1}{4}$	1	1	72	25	180	140	3							40.00

(Continued)

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-442b Type I Type II Type III Type IV Type V	(2) Desized, singed, bleached, and mercerized.	Color - chemically white - standard sample available (4). May be supplemented with fluorescent optical brightener. Colorfastness - standard sample available - (5660).		Intended Use - Types I, II and III - for use in white uniforms. Type IV - In dress uniform trousers of U.S. Military Academy cadets. Type V - as the base cloth for Smock, Man's, Dental, Operating; and Smock, Man's, Medical Assistant.
CCC-C-443b Type I (Continued)	(2) Unbleached.		(a) Two yarns woven as one.	Intended Use - In the fabrication of tentage and related items.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Cotton, Duck; (Single and Plied Filling Yarns, Flat) CCC-C-443b, Amd. 1 (Cont'd)																		
Type II - Double filling (plied)							(a)											
	7.26	-	Oxford,	(1)-$\frac{1}{4}$	1	2	86	30	100	60	-							40.00
	8.47	-	2 ends	(1)-$\frac{1}{4}$	1	2	86	30	115	85	-							40.00
	9.68	-	weaving	(1)-$\frac{1}{4}$	1	2	86	30	125	100	-							40.00
	10.89	-	as one -	(1)-$\frac{1}{4}$	1	3	84	30	140	110	-							40.00
	12.10	-	Plain	(1)-$\frac{1}{4}$	1	3	84	30	150	115	-							40.00
	13.32	-		(1)-$\frac{1}{4}$	1	4	84	29	165	135	-							40.00
	14.53	-		(1)-$\frac{1}{4}$	1	4	82	29	180	160	-							40.00
	18.15	-		(1)-$\frac{1}{4}$	1	5	82	25	195	190	-							40.00
Cloth, Cotton, Jean (Bleached) CCC-C-444b	4.7	-	$\frac{2}{1}$ twill	(1)			98	60	85	48		Preshrunk 1%	1%					35.00
Cloth, Muslin, Cotton CCC-C-446d, Amd. 2																		
Type I																		
Class 1 - Unbleached	2.7	-	Plain	(1)	1	1	64	58	37	26		9%	9%					45.00
Class 2 - Bleached or dyed	2.4	-	"	(1)	1	1	66	52	34	20		6%	6%					dyed- 30.00
Class 3 - Bleached or dyed preshrunk (Continued)	2.5	-	"	(1)	1	1	68	56	36	22		1%	1%					white- 35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-443b (Cont'd) Type II				
CCC-C-444b	(2) Singed, desized, and bleached.			Intended Use - In the manufacture of clothing and equipage items.
CCC-C-446d Type I Class 1 Class 2 Class 3 (Continued)	(2) Classes 2 and 3 cloth shall be singed.	Color (1) - standard sample available (4-6). Colorfastness - standard sample available for dyed cloth - (5610-5600-5660-5680-5651).		Intended Use - In clothing, flags and equipage items.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5616)	Point Value Max.
Cloth, Muslin, Cotton CCC-C-446d, Amd. 2 (Cont'd)	Min	Max			W	F	W	F	W	F		W	F					
Type II																		
Class 1 - Unbleached	3.1	-	Plain	(1)	1	1	68	70	42	34		9%	9%					45.00
Class 2 - Bleached or dyed	2.7	-	"	(1)	1	1	70	64	38	28		6%	6%					dyed-30.00
Class 3 - Bleached or dyed preshrunk	2.8	-	"	(1)	1	1	72	68	40	30		1%	1%					white-35.00
Type III																		
Class 1 - Unbleached	3.4	-	"	(1)	1	1	78	76	46	39		9%	9%					45.00
Class 2 - Bleached for dyed	2.9	-	"	(1)	1	1	80	70	45	32		6%	6%					dyed-30.00
Class 3 - Bleached for dyed preshrunk	3.0	-	"	(1)	1	1	83	74	44	34		1%	1%					white-35.00
Type IV																		
Class 1 - Unbleached	2.4	-	"	(1)	1	1	38	36	27	20		9%	9%					45.00
Type V																		
Class 1 - Unbleached	3.9	-	"	(1)	1	1	56	60	44	50		9%	9%					45.00
Type VI																		
Class 2 - Bleached or dyed	2.4	-	"	(1)	1	1	64	56	35	25		6%	6%					dyed-30.00 white-35.00
Type VII																		
Class 2 - Bleached or dyed	3.1	-	"	(1)	1	1	85	72	45	30		6%	6%					dyed-30.00 white-35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-446d (Cont'd)				
Type II				
Class 1				
Class 2				
Class 3				
Type III				
Class 1				
Class 2				
Class 3				
Type IV				
Class 1				
Type V				
Class 1				
Type VI				
Class 2				
Type VII				
Class 2				

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd. Min	Weight Oz./Sq. Yd. Max	Weave	Width Inch	Yarn Ply W	Yarn Ply F	Yarns Per Inch Min. (5050) W	Yarns Per Inch Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Air Permeability (5450)	Shrinkage Max. (5550) W	Shrinkage Max. (5550) F	Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Cotton, Percale CCC-C-447b	3.0	-	Plain	(1)	1	1	85	72	45	30		1% Preshrunk	1%					30.00 dyed 35.00 white
Cloth, Cotton, Seersucker CCC-C-448b																		
Type I - Narrow Stripe												Preshrunk			Slack Beam Take-up min.			
Class 1 - 82x86 tex.	4.0	-	Plain	(1)	1	1	82	86	24	45		4%	2%		40%			
Type II - Medium stripe																		
Class 1 - 112x80 tex.	4.0	-	"	(1)	1	1	112	80	30	40		4%	2%		40%			
Class 2 - 80x80 tex.	4.0	-	slack W weaving 2 ends as 1	(1)	1	1	80	80	30	40		4%	2%		30%			
Type III - Stripe pattern effect																		
Class 1 - 280x72 tex.	4.0	-	Plain	(1)	1	1	230 per repeat (2-5/8 in)	72	25	30		4%	2%		40%			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-447b	(2) Singed, bleached, or dyed. May be calendered.	Color (1) - standard sample available (4-6). Colorfastness - standard sample available - (5660-5610-5622-5651).		Intended Use - In the manufacture of clothing.
CCC-C-448b Type I Class 1 Type II Class 1 Class 2 Type III Class 1	(2) Singed, desized, and bleached. When bleached warp and filling yarns are used for the undyed yarns, yarn or piece bleaching is optional.	Color (1) - standard sample available (4-6). Colorfastness - standard sample available - (5660-5610-5600-5680 or 5682-5651). See specification for special instructions on stripe or pattern effects.	(a)Slack beam warp yarn for Type I, Class 1 cloth and tight beam warp yarn for Type II, Class 2 cloth shall be two-ply.	Intended Use - In clothing items.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq.Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, and Cloths, Waffle, Cotton CCC-C-00450 (GSA-FSS)																		
Size 1 - 18x36 in.	6.5	-	Honeycomb		2	2	37	24	55	45								
Size 2 - 36x36 in.	6.5	-	weave		2	2	37	24	55	45								
Roll - 28 in. wide	6.5	-	(dobby)		2	2	37	24	55	45								
Roll - 36 in. wide	6.5	-			2	2	37	24	55	45								
Cloths, Polishing (For Electrical Contact Surfaces) DOD-C-450a	7.0	-			1	1	50±2	38±2	25	17								
Cloth, Cotton, Pajama-Check CCC-C-00455 (GSA-FSS)												Preshrunk						
Type I - 88x88	3.5	-	Fancy Basket Weave (7).	36 ±1/2	1	1	94	80	52	35		1%	1%					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-00450 Size 1 Size 2 Roll - 28 Roll - 36	Unshrunk and unbleached or bleached. Cloth shall be absorbent to water (4.4.1).			
DOD-C-450a	Soft finish; lightly napped on both sizes. Cloth shall be finished by dipping in a silica-base compound until thoroughly impregnated.	Color - white (bleached) (5)		
CCC-C-00455 Type I	(2) Desized, bleached, tinted a bluish white, and calendered to produce a soft, smooth nainsook finish.			Intended Use - In the fabrication of undergarments and pajamas.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Flannel, Cotton CCC-C-458a	Min	Max			W	F	W	F	W	F		W	F					
Type I - Plain weave (soft filled sheeting) unbleached, napped one side																		
Class 1	4.7	-	Plain	(1)	1	1	42	40	26	21	single napped	Preshrunk 2%	2%					32.00
Type II - Plain weave (soft filled sheeting) unbleached napped both sides																		
Class 1	4.6	-	"	(1)	1	1	42	40	26	19	double napped							32.00
Type III - Plain weave (outing flannel) bleached or dyed, napped both sides																		Bleached 28.00 dyed-
Class 1	3.5	-	"	(1)	1	1	42	40	20	17								25.00
Class 2	4.0	-	"	(1)	1	1	42	40	23	19		Preshrunk (1)						"
Class 3	4.6	-	"	(1)	1	1	50	40	28	23		2%	2%					"
Type IV - Twill weave (canton flannel) unbleached, napped on the filling side																		
Class 1	5.0	-	3 or 4 harness twill	(1)	1	1	62	38	45	20								32.00
Class 2	6.0	-		(1)	1	1	62	38	60	25								32.00
Class 3	7.0	-	"	(1)	1	1	62	38	60	30								32.00
Class 4	8.0	-	"	(1)	1	1	62	38	65	40								32.00
Class 5	10.0	-	"	(1)	1	1	60	34	100	50								32.00
Class 6	12.0	-	"	(1)	1	1	60	34	100	70								32.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-458a Type I Class 1 Type II Class 1 Type III Class 1 Class 2 Class 3 Type IV Class 1 Class 2 Class 3 Class 4 Class 5 Class 6	Type I - napped on one side. Type II - napped on both sides. Type III - napped on both sides. Type IV - napped on the filling side. Type IV, Class 3 shall be singed on the unnapped side when specified. Standard samples available for finishes.	Color - Types I, II and IV - unbleached. Type III (1) - standard sample available (4-6). Colorfastness - standard sample available for dyed cloth - (5610-5651-5680).		Intended Use - In the manufacture of pajamas, gloves, the back of gloves, glove lining, padding for front interlining in coats and interlining in caps.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd. Min	Weight Oz./Sq. Yd. Max	Weave	Width Inch	Yarn Ply W	Yarn Ply F	Yarns Per Inch Min. (5050) W	Yarns Per Inch Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Air Permeability (5450)	Shrinkage Max. (5550) W	Shrinkage Max. (5550) F	Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Cotton, Flannel (Heavy, For Table Felts) CCC-C-460	12.5	-	Filling reversible weave (7)	(1)			66	42	60	30								
Cloth, Uniform Twill Cotton CCC-C-461a												Preshrunk						
Type I	7.9	8.6	3/1 right twill	(1)	2	2	116	56	180	120		1%	1%	80%				dyed- (25.00 (35.00 white
Type II	7.9	8.6	"	(1)	2	1	116	56	180	110		1%	1%	80%				
Type III	7.7	8.4	3/1 left twill	(1)	1	1	112	54	160	110		1%	1%	80%				"
Type IV	7.2	7.9	"	(1)	1	1	100	54	160	110		1%	1%	80%				"
Type V	7.2	7.9	"	(1)	1	1	100	54	150	100		1%	1%	80%				"
Type VI	8.2	8.6	"	(1)	1	1	112	56	170	80		1%	1%	80%				"
Cloth, Squeeze, Dental DDD-C-00475(DSA-DM)									(fin. cloth, jaws at initial distance of 1 inch)									
Style 1 - Round	2.75	-					74	74	36	36								
Style 2 - Square	2.75	-					102	52	55	32								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-460	Unbleached. Full nap on both sides.			
CCC-C-461a Type I Type II Type III Type IV Type V Type VI	(2) Singed, desized, and mercerized. White cloth shall be singed, desized, mercerized and bleached.	Color (1) - standard sample available (4-6). When white is specified, cloth shall be bleached and tinted to match std. sample. Colorfastness - standard sample available for dyed cloth (5660-5610-5600-5680-5651).		Intended Use - In clothing and equipage items.
DDD-C-00475 Style 1 Style 2				

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Wind Resistant Oxford, Quarpel Treated MIL-C-484E															Initial (13)	Initial (13)		
												Preshrunk						
Type I	6.5	-	Oxford (2 ends weaving as 1)	(1)	1	1	130	54	135	50		2%	2%	85%	25	35		28.00
Type V	9.0	-		(1)	2	1	128	48	200	95		2%	2%	80%	25	35		28.00
Type VI	5.5	-		(1)	2	1	196	86	180	80		2%	2%	80%	25	35		28.00
Towels, Cotton, For Glassware DDD- T-501c																		
Class A - Plain weave	5.1	-	Plain				54	38	50	50								
Class B - Plain weave with 5-harness 4/1 woven stripe	5.5	-	Plain with warp stripe produced with a 5-harness, 4/1 weave				36	29	50	40								
Cloth, Poplin, Cotton MIL-C-507E	4.5	5.0	Plain	(1)	2	1	106	48	110	50		Preshrunk 2%	2%	85%				dyed-28.00 32.00 white

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-484E Type I Type V Type VI	(2) The cloth shall be given an approved Quarpel type, water-repellent treatment. Initial spray rating shall be 90, 90, 80. (5526). Cloth shall be singed, scoured, and mercerized. pH: 6.5-8.5.	Color (1) - standard sample available (4-6). Colorfastness - standard sample available (5610-5600-5651-5680-5660).	Stiffness - Type VI - max. flex-stiffness shall be 0.00050 in/lb for the warp and 0.00015 in/lb for the filling (5206).	Intended Use - In clothing where a high degree of wind resistance and water resistance is of prime importance.
DDD-T-501c Class A Class B		Color - towels shall be bleached white except for the stripes in Class A, which shall be either Turkey red or blue. Colorfastness - "good" (5600-5610).	(14)	Intended Use - Primarily for drying glassware.
MIL-C-507E	(2) Singed, desized, and mercerized, with a clear lustrous finish.	Color (1) - standard sample available (4-6). When white is specified cloth shall be bleached and may be supplemented with fluorescent optical brightener. Colorfastness - standard sample available (5660-5610-5600-5680-5651).		Intended Use - In the manufacture of clothing items.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply	Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W F	W	F	W	F		W	F					
Towel or Dishcloth (Crash, Cotton, and Cotton and Linen-Mixed); Cloth, Crash, Cotton DDD-T-511c (See also under Mixed Cloths																	
Type I - Towel or dishcloth																	
Class 1 - Cotton warp & linen filling (unbleached)																	
Class 2 - All cotton (bleached)																	
Size 1 - 17x30 in.	5.8	-	Plain			38	30	50	40								
2 - 17x36 in.	5.8	-	"			38	30	50	40								
3 - 17x14½ in.	5.8	-	"			38	30	50	40								40.00
Type II - Cloth, crash, cotton (bleached)	5.8	-	"			38	30	50	40								
Towel, Hand and Cloth, Cotton, Huck DDD-T-531d																	
Type 1 - Hand towel	2.55	-	Huck(7)	(3) 17	(a) 1 or 2	52	26	70	60								
Class 1 - With woven design and stripe	(lb/doz for 17x36 in.)					(as sin. or 52 in pairs)											
Pattern 1 - U.S. Government																	
Color a - White																	
Pattern 2 - Medical																	
Color a - Green																	
Color b - Gray																	
(Continued)																	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
DDD-T-511c Type I Class 1 Class 2 Size 1 Size 2 Size 3 Type II	(2) Cloth shall be scoured and bleached.	Color - cloth shall be bleached. When specified, towels shall have woven, colored stripes 3/16 to 5/16 in. wide, located 7/16 to 9/16 in. from each selvage edge. Colorfastness - Stripes: "good" (5610-5600).	Rate of absorbency: height of rise of colored water shall be a min. of 6 cm. in 5 min. in both W and F.	
DDD-T-531d Type I Class 1 Pattern 1 Color a Pattern 2 Color a Color b (Continued)	(2)	Color - color of towels and toweling shall be bleached or dyed as specified. (6). Std. samples available (4). Colorfastness - for dyed towels and toweling and for colored stripe in bleached towels - standard sample available (5600-5610).	(5)(14).	

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.	Weave	Width Inch	Yarn Ply	Yarns Per Inch Min. (5050)	Breaking Strength Lb. Min. (5100)	Air Permeability (5450)	Shrinkage Max. (5550)	Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min | Max			W | F	W | F	W | F		W | F					
Towel, Hand and Cloth, Cotton, Huck DDD-T-531d (Cont'd)													
Class 2 - Without woven design & stripe Color a - White Color b - Green	2.55 - (lb/doz for 17x36 in.)	Huck(7)	(3) 17	(a) 1 or 2	52 26 (as sin. or 52 in pairs)	70 60							
Type II - Cloth, cotton, huck	3.35 - oz/lin yd	Huck(7)	(3) 17	1 or 2	52 26 (as sin. or 52 in pairs)	70 60							
Towels, Machinery Wiping (Laundered) DDD-T-539													
Sizes: 18x18 in.	6.0±0.2				28 18								
18x30 in.	6.0±0.2				28 18								
Towel, Machinery Wiping DDD-T-541c													
Size 1 - 16½x18 in.	5.5 -	Plain		1 1	28 18	40 75							
Size 2 - 18x30 in.	5.5 -	"		1 1	28 18	40 75							

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
DDD-T-531d (Cont'd) Class 2 Color a Color b Type II				
DDD-T-539 Sizes: 18x18 in. 18x30 in.	(2) Towels shall be laundered & dried by the best commercial processes & shall be free of paint, oil, grease, metal, plastic or other foreign objects, & shall have no objectionable odor.		Towels shall be free of torn, frayed, or tattered edges, and not less than 97% of the area of each towel shall be free from holes. Absorbency: ave. time of saturation shall be 10 sec. max. (4.4.2). Capillarity: ave. time of water to rise 1 in. shall be 40 sec. max.; to rise 2 in. shall be 90 sec. max. (4.4.3).	Intended Use - This specification is intended to define quality of towels received from commercial laundry facilities.
DDD-T-541c Size 1 Size 2	(2) Towels may be bleached or unbleached as specified.		(5)	Intended Use - Primarily for use in cleaning machinery and mechanical components.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply			Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Towel, Bath, Cotton Terry DDD-T-00551f(GL)	Min	Max			W	F	Ground File	W	F	W	F		W	F					
Type I - Sin. loop Class 1 - 20x40 in.	(lb/doz) 5.5	-	(7) Terry		1	1	1	72	32	75	70								
Type II - Dou. loop Class 1 - 22x44 in.	8.5	-	"		1 2	1	1	84	42	45	40								
Class 2 - 16x27 in.	3.0	-	"		1 2	1	1	84	42	45	40								
Class 3 - 16x27 in.	3.65	-	"		1 2	1	1	84	42	45	40								
Class 4 - 20x40 in.	5.5	-	"		1 2	1	1	71	32	45	40								
Style A - Selvage edge both sides																			
Style B - One sel. edge, one hemmed																			
Cloth, Wind Resistant Sateen, Cotton MIL-C-557E													Preshrunk			Initial (13)	Initial (13)		
Type I	9.0	-	5 harness sateen(7)	(1)	2	2		112	68	150	125		1%	1%	80%	25	35		25.00
Type II	7.0	-	"	(1)	2	1		120	88	130	105		1%	1%	85%	25	35		25.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
DDD-T-00551f(GL) Type I Class 1 Type II Class 1 Class 2 Class 3 Class 4 Style A Style B	(2)	Color - towels shall be bleached white or dyed as specified. Standard sample available (4-6). Colorfastness - standard sample available (5600-5610).	When design (non-military) is required, it shall be as specified.	
MIL-C-557E Type I Type II	(2) Singed, desized, & mercerized, & dyed, & given a water-repellent treatment. Initial spray rating 90, 90, 80 (5526). Type I - finished with filling effect side as face. Type II - finished with warp effect side as face.	Color (1) - standard sample available (4-6). Type I - matched with filling effect side used as face. Type II - matched with warp effect side used as face. Colorfastness - standard sample available (5610-5600-5680-5651-5660).	Type I - filling effect side shall be stamped in ink, to identify the face of the cloth.	Intended Use - In clothing where a high degree of wind and water resistance is of prime importance.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Toweling; Cotton, Glass																		
CCC-T-561	5.3 + any - 3%	-	Plain	16 $\pm\frac{1}{2}$			54 + any - 2	38	50	50								
Prints; Cotton CCC-P-651												Preshrunk						
Type I	2.7	-	Plain	$35\frac{1}{2}\pm\frac{1}{2}$			72	64	52	32		1%	1%					
Type II	2.4	-	"	$35\frac{1}{2}\pm\frac{1}{2}$			66	54	38	17		1%	1%					
Cloth, Brattice, Cotton, Fire-Resistant MIL-C-788D(SHIPS)	12	13		(1)$\pm 1\frac{1}{2}$			22-26	19-21	120	80								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-T-561	Cloth shall be fully bleached and properly neutralized.	Color - red or blue. Colorfastness - "fast" to washing.	Cloth shall have a checked pattern formed by 2 colored warp ends & 2 colored filling picks woven in at intervals at $\frac{1}{2}$ to 1 in.; or a line pattern with 2 colored lines running parallel to the warp about an inch apart formed by 2 colored warp ends woven in.	
CCC-P-651 Type I Type II	(2) Singed. May be lightly calendered or uncalendered.	Colors & patterns (1). Colorfastness - (5660-5610).		Intended Use - Type I - In women's and children's dresses. Type II - for comforter coverings.
MIL-C-788D	Fire resistant - flame time, 3 sec. max. Average length of char - 3 in. Treatment must be compatible with adhesive Type I of MIL-A-3316 (5903T). Flexibility (3.2).		Drying time and adhesive strength (3.5.1).	Intended Use - For repairing and covering the surface of fibrous glass insulation board.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Swiss, Cotted; Cotton	Min	Max			W	F	W	F	W	F		W	F					
CCC-S-891	1.4	-	Woven dots (clipped) on plain background	36 -1			62	48	24	12								
Cloth, Cotton, Terry (For Filtering) MIL-C-1164B	9.0	-	Terry(7)	(11) 35-37	1	1	62	32										
Cloth, Cotton, Oxford And Poplin (For Pajamas) MIL-C-2107C												Preshrunk						
Type I - Oxford	5.0	-	Oxford	(1)	1	1	128	42	95	65		2%	2%	80%				30.00
Type II - Oxford	4.5	-	"	(1)	1	1	128	60	95	45		2%	2%	80%				30.00
Type III - Poplin	5.5	-	Poplin	(1)	1	1	114	52	140	45		2%	2%	80%				30.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-S-891		Color (1). Colorfastness - (5610).		
MIL-C-1164B	(2) Bleached or unbleached.		(5)	Intended Use - For filtering feed water systems on ships driven by reciprocating engines.
MIL-C-2107C Type I Type II Type III	(2) Singed, scoured, mercerized, and dyed, with a clear lustrous finish.	Color - light blue, shade No. 14 - standard sample available (4 [illegible]). Colorfastness - standard sample available (5610-5600-5680).		Intended Use - In the fabrication of pajamas for hospital and orthopedic use.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Duck, Cotton; Plied and Single Yarns (High Sley) MIL-C-2384C																		
Type I - Plied yarn									(3)									
Class 1	10.75	-	Oxford	(1)	2	1	70	40	195	135								40.00
Class 2	14.75	-	weave	(1)	2	1	72	28	245	180								40.00
Type II - Single yarn			(plain weave,															
Class 1	8.50	-	2 ends	(1)	1	1	110	44	180	90								40.00
Class 2	9.75	-	weaving	(1)	1	1	86	50	150	130								40.00
Class 3	11.25		as 1)	(1)	1	1	100	30	200	135								40.00
Cloth, Damask, Cotton MIL-C-2758C	5.5	-	Sin. damask 5-leaf twill (14)	(1)	1	1	(3) 78	76	74	74		6%	6%					
Cloth, Cotton, Oxford MIL-C-4122A (USAF) Amd. 1												Preshrunk						
Type I - White	4.25	4.50	Plain, 1-up 1-down (2 warp ends weaving as 1)	36 ±½	(8) std. sample available		88	42	40	70		1%	1%					
Type II - Shade Blue Number 501	4.25	4.50					88	42	40	70		1%	1%					
Type III - Shade Blue Number 126	3.80	4.10					88	42	40	70		1%	1%					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-2384C Type I Class 1 Class 2 Type II Class 1 Class 2 Class 3	(2)			Intended Use - In the fabrication of tentage and equipage items.
MIL-C-2758c	(2) Bleached and mercerized, with a clear lustrous finish.	Color - White, Navy Shade 3017. - standard sample available.	(5)	Intended Use - In making table cloths.
MIL-C-4122A Type I Type II Type III	(2) Singed, desized, boiled off, scoured, and mercerized, with a clear lustrous finish.	Color - Type I - white (bleached). Type II - Shade Blue, #501, vat dyed in the piece. Type III - Shade Blue #125. Warp of vat dyed blue yarns; fill of bleached white yarns. (4). Colorfastness - "Good" (5660-5610-5600-5651-5680-5620-5622).	(5)	Intended Use - In the fabrication of USAF shirts and WAF shirtwaists.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Muslin, Cotton (Parachute Canopy) MIL-C-4279B	Min	Max			W	F	W	F	W	F		W	F		Tearing Strength lb. Min. W	F		
Type II	3.7	-	Plain	(1)	1	1	54	56	48	42	170-	-230		90%	3.0	2.5		20.00
Type III (Mildew resistant treated)	3.8	-	"	(1)	1	1	56	58	50	50	130-	-190		90%	3.0	2.5		20.00
Cloth, Cotton Airplane MIL-C-5646D(ASG)	4.0	4.5	Plain, 1 up 1 down	(1)	2	2	80-84	80-84	(5104) 80	80								
Cloth, Cotton, Inflatable Equipment MIL-C-6820D																		
Class 1 - Plain	-	2.2	Plain, 1 up 1 down	40 ±½	(8)		120	120	(5104) 40	40								
Class 2 - Twill	-	8.0	4 left / 1 twill				90	90	145	140								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-4279B Type II Type III	(2) Type III - treated with a dispersed polyethylene softener, and with salicylanilide for mildew resistance. Application of softener and mildew inhibitor in combination with dyeing.	Color (1) - standard sample available (4-6). Dyed without prior preparation except optional light scouring. No bleaching permitted. Dyeing by padding with direct dyes at or near boil. Colorfastness - standard sample available (5651).	(5) Tension in processing greater than necessary for control purposes shall be avoided.	Intended Use - In cargo parachutes.
MIL-C-5646D	(2) Washed, framed, and medium-cold calendered. Smooth and wrinkle free. Avoid excess roll pressure on cloth. pH: 6.0-8.0.		Bursting Strength, Mullen Points (min.) - 170 (5122). Cloth shall be compatible with aircraft dope. Dope shall dry in 45 min. when applied to finished cloth.	Intended Use - In covering control surfaces, fuselages, and wings of airplanes.
MIL-C-6820D Class 1 Class 2	Smooth surface. Finished cloth shall contain no more than 1.0% methyl ethyl ketone extractable matter.			Intended Use - In the manufacture of laminated cloths or coated cloths which provide gas & air impervious properties suitable for components of life rafts, flotation bags, and other inflatable items.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Cotton, Sheeting, Plain Weave, Trim, Porous MIL-C-8104(ASG)	3.5±0.5		Plain, 1 up 1 down	(1)	(S)		62	60	60	60	175-260							
Cloth, Cotton, Basket Weave and Plain Weave MIL-C-9231(USAF)																		
Type I - Plain Weave	-	(a) 4.5	Plain, 1 up 1 down	(1)	2	2	86	80	72	72								
Type II - 4x4 Basket Weave	-	4.5	4x4 Basket (4 warp ends weaving as 1; 4 picks in each shed)	(1)	2	2	86	80	72	72								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-8104A	(2)(15) Cloth shall be given a chemical flameproofing treatment which shall not affect the air permeability of the cloth.	Color - (1-4) - Color shall be obtained by the use of vat dyes. Colorfastness - "good" (5660-5651-5610-5630).	Finished cloth shall be noncorrosive (4.4.2.2). Elongation - 7.5% min. Tearing strength - 4.5 lb. min. (5134). Flame resistance - Time of flaming 0 sec. Time of glow - 0 sec. Length of char - 2.3 in. max. (5902). After oven aging (4.4.2.3.2.2) finished cloth shall not lose more than 10% of initial breaking strength.	Intended Use - On aircraft insulation & soundproofing blankets. Cloth will be used only in areas in aircraft where temperatures will not be high enough to cause cloth to lose its strength properties.
MIL-C-9231 Type I Type II	(2)(15) Washed, framed, and medium-cold calendered, with a smooth even surface. Excessive roll pressure shall not be applied during calendering. Type I shall be mercerized, smooth and wrinkle free. pH: 5.0-9.0 (2811).		(a)Except for cloth having a nominal length of 90 in., weight shall not exceed 4.75 oz/sqyd.	Intended Use - In coated fabrics. It is not intended foruse as a covering for airfoils.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Cotton, Netting MIL-C-9278(USAF)	5 ± 1		Conventional Leno	42 ±1	8 min.	8	6 max.	6	85	85								
Cloth, Cotton, Airplane Curtain MIL-C-9336(USAF) Amd. 1	6.0	6.5	Plain (1/1)	(1)	2	2	56	56	(5104) 95 (on unaged & oven aged samples.)	85								
Cloth, Sateen, Cotton MIL-C-10296F																		
Class 1 - Dyed	-	8.2	5 harness sateen (7)	(1)	1	1	85	48	140	118		Preshrunk 1%	1%	80%				30.00
Class 2 - White	-	8.2	Filling effect side shall be face side.	(1)	1	1	85	48	115	100		1%	1%	80%				35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-9278	(15) Sized for a stiff finish. Treated for mildew resistance.	Color - to match shade No. 3412 of Spec. TT-C-595. (6-15).	Cloth shall retain 85% of initial breaking strength after mildew resistance treating.	Intended Use - In the manufacture of aircraft wing and stabilizer protective covers.
MIL-C-9336	(2)(15) Calendered; smooth and free from wrinkles. Mercerized, either yarn or piece mercerization is acceptable. Treated for flame resistance. pH: 4.0-10.0 (after oven aging) (2811).	Color - to match shade No. 3406 of Spec. TT-C-595. Vat dyed. Uniform color. Either yarn or piece dyeing is acceptable. Colorfastness - "good" (5610-5660).	Cloth shall lose no more than 15% of initial breaking strength after oven aging. Flame resistance: length of flame - 0 sec., length of char - 3.5 in. max.	Intended Use - In the manufacture or replacement of aircraft curtains.
MIL-C-10296F Class 1 Class 2	(2) Class 1 cloth shall be singed, desized, and mercerized. Class 2 cloth shall be bleached.	Color - Class 1 (1). Standard sample available (4-6). Class 2: White to match std. sample (4). Cloth shall be fully bleached & may be supplemented with fluorescent optical brighteners. Cloth may not discolor to a greater degree than std. sample. Colorfastness - standard sample available for Class 1 (5660-5610-5600-5680-5651).	Filling effect side shall be identified by stamping that side with the word "Face" at each end of the piece.	Intended Use - In clothing and equipage items.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Oxford, Cotton (Permeable) MIL-C-10859E	Min	Max			W	F	W	F	W	F		W	F					
Type I												Preshrunk						
Class 1 - Plain fin.	5.2	-	Oxford (Plain, 2 ends weaving as 1)	(1)	1	1	124	42	75	60	20	1%	1%	90%				40.00
Class 2 - Flame resistant treated	5.0	6.8		(1)	1	1	122	40	75	60	20		-	80%				45.00
Type II																		
Class 1 - Plain fin.	6.0	-	"	(1)	1	1	115	44	100	65	20	1%	1%	90%				40.00
Cloth, Cotton, Denim MIL-C-11854E	5.8	-	1/2 right twill	(11) 36 min	1	1	65	42	90	38		Preshrunk 2%	2%	85%				30.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-10859E Type I Class 1 Class 2 Type II Class 1	(2) Types I & II, class 1 - singed, desized & mercerized. Type I, class 2 - desized. Type I, class 2 - given an approved cellulose reactant durable flame resistant treatment. Average flaming time - 2.0 sec. max. Average length of char - 5.0 max., before and after 3 cycles of laundering (5903-5556). Flex stiffness of finished cloth cloth shall be 0.0008 in. lb. max. initially, and 0.0035 after temperatures of -25°F ± 2°F for 1 hr. (5206). pH: 5.5 (of finished cloth min. (2811).	Color - Types I & II, Class 1 (1) - standard sample available except for white or natural (4-6). Type I, class 2 - undyed unbleached. natural color. Colorfastness - Types I and II - standard sample available (5660-5610-5600-5682-5651). Type I Class 2 - standard sample available (5651).	(5) Type I, class 2 shall have a tearing strength of 4.5 in the warp and 4.0 in the filling (5132).	Intended Use - Types I & II Class 1 - In the manufacture of clothing and mittens. Type I Class 2 - In the manufacture of tent liners.
MIL-C-11854E	(2) pH: 5.0-8.5 (2811).	Color (1) - standard sample available (4-6). Colored warp of vat dyed yarn; white fill. Colorfastness - standard sample available (5660-5610-5680-5651).		Intended Use - In the fabrication of uniforms for female personnel.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Wind-Resistant Sateen, Cotton; Fire and Water Resistant MIL-C-12095D	8.5	9.5	5 harness W sateen (7)	(12) 35 min.	3	3	104	88	170	150	2.0			60%	25	40 (45 min. average)		30.00
Cloth, Cotton, Balloon MIL-C-12318A(CE)																		
Type I - BB	-	2.90	Plain 1 up 1 down	(11) 40.5-41.5	1	1	100	100	58	58		Preshrunk (1) 1%	1%					
Type II - HH	-	2.05		41.5-42.5	1	1	120	120	40	40		1%	1%					
Type III - KK	-	1.40	"	53.5-54.5	1	1	120	120	24	24		1%	1%					
Type IV - MM	-	4.00	"	41.5-42.5	2	2	80	80	80	80		1%	1%					
Type V - RR	-	5.65	Basket, 5 up 5 down	41.5-42.5	3	3	94	94	140	140		1%	1%					
Type VI - SS	-	1.70	Plain 1 up 1 down	39.5-40.5	1	1	120	120	32	30		1%	1%					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-12095D	(2) Singed and mercerized. Water repellent treated. Spray rating (3 tests) 90, 90, 80 min. (5526). Approved durable flame-resistant treatment. Average time of flaming - 2.0 sec. max. Average length of char - 5.0 in. max. initially and after 3 laundering cycles (5903-5556). pH: 5.5 min. (2811).	Color (1) - standard sample available (4-6). Colorfastness - standard sample available (5651-5671).	Tearing strength - 4.0 min. in the warp; 3.8 min. in the filling. (5132).	Intended Use - In the fabrication of tentage.
MIL-C-12318A Type I Type II Type III Type IV Type V Type VI	(2) Clean, singed, desized and calendered, with a smooth even surface. Excess pressure during calendering shall be avoided. Type RR shall be made from bleached & mercerized yarns. pH: 5.0-9.0 (2810).	Color - Type RR shall be bleached white. All other types shall be undyed & unbleached.	(5)	Intended Use - For impregnation with either synthetic or natural rubber.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloths, Cable Wiping MIL-C-13194 (SigC)	Min	Max			W	F	W	F	W	F		W	F					
Cloth MC-74, 3x3 in. (Cotton ticking)	8.5	-					80	70	90	70								
Cloth MC-75, 5x5 in. (Cotton ticking)	8.5	-					80	70	90	70								
Cloth MC-76, 6x6 in. (Cotton ticking)	8.5	-					80	70	90	70								
Cloth MC-79, 3x3 in. (Moleskin)	18.0	-							100	150								
Cloth MC-80, 5x5 in. (Moleskin)	18.0	-																
Cloth MC-81, 6x6 in. (Moleskin)	18.0	-																
Cloth, Cotton, Sheeting (For Bandoleers) MIL-C-13453A (ORD)	4.6	5.0	Plain	(11) 42 min.	1	1	68	66	70	70								
Cloth, Wigan, Cotton MIL-C-16375E, Amd. 1																		
Type I	2.5	-	Plain	(1)	1	1	40	34	35	25								40.00
Type II	3.6	-	"	(1)	1	1	48	40	52	28								40.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-13194 Cloth MC-74 Cloth MC-75 Cloth MC-76 Cloth MC-79 Cloth MC-80 Cloth MC-81	Wiping surface shall be given a permanent smooth finish by an application of tallow dressing and soapstone dressing. Each dressing shall be applied uniformly and worked into the grain by means of a rotary polisher.		(5)	Intended Use - Wiping cloths are to be used in wiping lead joints on cable splices.
MIL-C-13453A	(2) pH: 6.9-7.3 (2611).	Color - Olive Drab No. 7 - standard sample available. (4-6). Color to be obtained by vat dyeing. Chromium salts shall not be used for oxidation of the vat dyestuffs. Colorfastness - standard sample available - (5610-5600-5651-5660).		Intended Use - In making bandoleers for small arms ammunition.
MIL-C-16375E Type I Type II	Firm, plain calender finish. Type I shall have a bending moment (stiffness) of 0.005 in. lb. max. in the direction of the warp (5202)	Color - Natural.		Intended Use - As interlining for clothing.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.	Weave	Width Inch	Yarn Ply	Yarns Per Inch Min. (5050)	Breaking Strength Lb. Min. (5100)	Air Permeability (5450)	Shrinkage Max. (5550)	Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Cotton, Twill, Fire Retardent Treated	Min | Max			W | F	W | F	W | F (5104)		W | F					
MIL-C-18387D (WEP)	4.2±0.2 untreated (+28% after treatment).	3/3 steep twill	(1)	2 2	105 100	100 70	25-60	2% 2%	80%				
Cloth, Impregnated; Cotton, Colloid Treated													
MIL-C-18543A	12.5 untreated 37.0 treated	Cotton flannel dou. line of filler thread	(3) 50		68 34	175 150							

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-18387D	Fire-retardent treated. After 15 launderings, average flame time - 2.0 sec. max.; glow time - 2.0 sec. max.; average length of char - 6.5 in. max. Compounds used for finish shall not deteriorate the cloth during storage or use, or cause burning itching or other harmful effects on the skin. Hand shall be firm, but not stiff or boardy. Stiffness - 0.010 lb. max. (5202). pH: 5.5-9.0 (2811).	Color - (1-6). Colorfastness - "good" (5660-5632-5682-5610-5651).	Tearing strength - initial - 6.0 lb. min. after 15 launderings - 2.6 lb. min. (5134). Resistance to abrasion - 1100 cycles to failure, min. (5308).	Intended Use - In the fabrication of lightweight flight garments. An acceptable cloth has been made from Delfos cotton having a staple length of 1¼ in.
MIL-C-18543A	Base cloth shall be uniformly napped on both sides, with nap laying in the direction of the warp. Base cloth shall be impregnated with pyroxylin and an inorganic fire-retardent. Cloth shall not burn down more than 6.[illegible] in. in 120 sec. (4.4.1). Shall conform to flexibility tests (4.4.2).	Color - light gray - standard sample available		Intended Use - In the manufacture of orthopedic appliances, such as artificial arms, body jackets, etc. Also, for repairing and building up foundry patterns.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
Cloth, Cotton, Cartridge MIL-C-20313, Amd. 2	Min	Max			W	F	W	F	W	F		W	F					
														Stretch (max) W	Stretch (max) F		Water Extract (max.)	
Grade A	-	5.0	-	36-42 (40 pref)			74	66	70	70				12%	20%		0.5%	
Grade B	-	3.1	-	"			-	-	30	30							0.5%	
Grade C	-	2.1	-	"			87-93	76-82	28	25							2.0%	
Grade D	-	8.2	3/1 right twill	"			116	56	180	130				12.5%	12.5%		0.5%	
Cloth, Cotton, Oxford and Uniform Twill, For Summer Uniforms MIL-C-26959A (USAF)																		
Type I - Oxford	4.25	4.75	2x2 Oxford	(1)	1	1	90	80	40	90	33	Preshrunk 1%	1%					
Type II - Uniform Twill	6.0	6.5	2/1 right twill	(1)	2	1	82	50	90	80	30	1%	1%					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-20313 Grade A Grade B Grade C Grade D	(2) Grade A - free from starch and calendered. Grade B - free from starch and calendered. Grade C - lightly sized with starch and calendered. Starch shall be undegraded (e.g. no gums or dextrines). Grade D - free from starch and calendered. pH: Neutral ± 0.1%.	Color - white.	Grade A - shall be manufactured from Type 140 sheeting, narrow or wide, split to correct width. Grade B - shall be manufactured from commercial print cloth. Grade C - shall be manufactured from commercial combed lawn cloth. Grade D - shall be manufactured from commercial cloth of a 4-hardness twill.	Intended Use - In the manufacture of bags for loading propellent charges.
MIL-C-26959A Type I Type II	(2) Singed, boiled off & mercerized.	Color (1) - standard sample available. Colorfastness - "fair" (5600). "Good" (5660-5610-5682-5651).	(5) Tearing strength - Type I - 9 lb. min. in the warp and 8 lb. min. in the fill. Type II - 10 lb. min. in the warp and filling. (5134)	

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Cloth, Batiste, Cotton, Polishing MIL-C-40129A (GL)																		
Class 1 - Rolls	-	1.9	Plain 1 up 1 down	(11) 39½ min.	1	1	90	75	45	35								30.00
Class 2 - Cut pieces	-	1.9		4	1	1	90	75	45	35								30.00
Blanket, Combat Casualty MIL-B-41805	9.85	-	Plain 1 up 1 down	(1)	2	2	52	40	160	110	4							
Cloth, Cotton, Water Repellant MIL-C-43033 (ORD)																		
Class 1.	-	2.6		(1)			87-93	76-82	22	18								
Class 2	-	3.9		(1)			-	-	24	22								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-40129A Class 1 Class 2	(2) Singed on both sides, desized, bleached white, and mercerized.			Intended Use - For cleaning and polishing coated optics.
MIL-B-41805	Treated for fire, water, weather, and made mildew resistant.	Color - dyed in accordance with Type I, Class 1 of Spec. CCC-C-428.	(14)	
MIL-C-43033	(2) Unbleached & free of sizing. Calendered. Finished with a urea formaldehyde resin (paste type), plus a durable water repellent (melamine resin base) as evidenced by a purple color after test dyeing (4.3.1.1). pH: 5.5-8.5 (2811). Acidity or alkilinity - 0.10% max. (4.3.1.8). Breaking strength loss - 25% max. (4.3.1.9).	Color - natural or as specified.		Intended Use - As cartridge cloth in ammunition.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min.	Max			W	F	W	F	W	F		W	F					
Cloth, Sateen, Cotton, Flame Resistant Treated MIL-C-43122B																		
Class 1 - Natural or tinted	-	(min) 8.5 (greige, +30% max after fin)	5-harness sateen (7)	(1)	1	1	80	56	110	110	5.0	2%	2%	80%	40%			30.00
Class 2 - Dyed, water repellent				(1)	1	1	80	56	110	110	5.0	2%	2%	80%	25%			30.00
Cloth, Cotton, Sheeting Blotch Printed MIL-C-43151	6.2	-	Plain	(1)	1	1	50	45	68	75		Preshrunk 4%	5%					35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-43122B Class 1 Class 2	(2) Singed and desized. Approved flame resistant treatment. Average flaming time - 2.0 sec. max. Average length of char - 5.0 in. max., initially & after 15 launderings (5903). Class 2 - water repellent. Spray rating - 90, 90, 80 min. (5526). pH: 5.5 min. (2811).	Color - Class 1 - natural or neutral grey tint (if flame resistant treating imparts color to cloth). Class 2 - Olive Green 107 - standard sample available (4-6). Colorfastness - standard sample available (5651 for Class 1 and 2; 5610 for Class 2).	(5) Filling effect side shall be finished & labeled as "face". Tearing strength - 6.0 lb. min. Stiffness - 0.0015 in. lb. max.	Intended Use - Class 1 - Tent liners & coveralls for explosives handlers. Class 2 - Coats and trousers for firemen.
MIL-C-43151	(2) Desized, boiled off, and scoured. Bleaching and functional finishes are prohibited. Prior to printing the cloth shall be lightly napped on one side - standard sample available for degree of nap after over-printing. Blotch printing on napped side only, using a pigment binder system. Binder shall be capable of resisting chlorine emitting agents. Degree of strike-through not to exceed standard sample.	Color - Olive Green 107, to be obtained by blotch printing on one side only. Standard sample available (4-6). Colorfastness - standard sample available for dyed side (5600-5610).		Intended Use - For outer garments to protect environmental clothing against chemical warfare agents under cold-wet and cold-dry conditions.

COTTON CLOTHS-WOVEN

NOMENCLATURE	Weight Oz./Sq. Yd.		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Seam Efficiency (5110)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure low range Min. (5514)	Water Permeability Max. (5516)	Point Value Max.
	Min	Max			W	F	W	F	W	F		W	F					
Binding, Textile, Bore Cleaning; and Swabs, Small Arms, Cleaning MIL-B-43318																		
Type I - Rolls (Bindings)																		
Class 1 - 2½" wide	4.7	5.1	Plain		1	1	43	39	40	30								
Class 2 - 4" wide	4.7	5.1	"		1	1	43	39	40	30								
Type II - Cut pieces (Swabs)																		
Class 1 - 2" sq.	4.7	5.1	"		1	1	43	39	40	30								
Class 2 - 2-9/16" sq.	4.7	5.1	"		1	1	43	39	40	30								
Class 3 - 2.187" in diameter, cir.	4.7	5.1	"		1	1	43	39	40	30								
Cloth, Cotton, Organdy MIL-C-81252 (WP)	1.2	1.6	Plain				76-80	70-74	29	20								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-B-43318 Type I Class 1 Class 2 Type II Class 1 Class 2 Class 3	Scoured, with an evenly developed napped surface on one side.	Color - natural, unbleached.		
MIL-C-81252		Color - white (natural).	(5) Tearing strength - 0.87 min. in the warp and 0.51 min in the filling.	Intended Use - As a restraining material for parts of rocket motors.

REFERENCES

COTTON CLOTHS - WOVEN

Textile Test Methods - CCC-T-191b

Method	Title
	Chemical
2610	Nonfibrous materials, acid method.
2611	Nonfibrous materials, enzyme method.
2810	Acidity (pH), colorimetric method.
2811	Acidity (pH), potentiometric method.
	Construction
5020	Width of cloth.
5030	Thickness of cloth.
5040	Weight of cloth; cut, roll, or bolt method.
5041	Weight of cloth; small specimen method.
5050	Yarns per inch in woven cloth.
	Mechanical
5100	Strength and elongation, breaking, of woven cloth, grab method.
5102	Strength and elongation, breaking, of woven cloth, cut strip method.
5104	Strength and elongation, breaking, of woven cloth, ravel strip method.
5110	Sewability; strength-of-seam method.
5122	Bursting strength, diaphragm.
5132	Tearing strength, pendulum method (Elmendorf).
5134	Tearing strength, tongue method.
5136	Tearing strength, trapezoid method.
5202	Stiffness, directional; cantilever bending method (Tinius Olsen).
5206	Stiffness, drape and flex; cantilever bending method (Pierce formula).
5304	Abrasion resistance; oscillatory cylinder (Wyzenbeek) method.
5308	Abrasion resistance of cloth: Uniform Abrasion (Schiefer) method.
5410	Slippage resistance of yarns in cloth.
	Air Permeability and Water Resistance
5450	Air permeability, calibrated orifice method (Frazier).
5500	Water resistance, dynamic absorption.
5502	Water resistance, cloth, immersion absorption.
5514	Water resistance, hydrostatic pressure, low range.
5516	Water resistance, hydrostatic pressure, water permeability.
5526	Water resistance with hydrophobic finish; spray method.
5530	Penetration resistance of cloth; feathers and down, tumbling method.
	Shrinkage Resistance
5550	Shrinkage in laundering; cotton, linen, and mixed cotton and linen cloth.
5556	Shrinkage in laundering; mobile laundry method.
	Colorfastness
5600	Chlorine bleaching; cloth.
5610	Laundering, cotton and/or linen; Launder-Ometer.
5612	Laundering, cotton and/or linen cloth; wash wheel.
5620	Dry cleaning (petroleum solvent).
5622	Wet cleaning (with dry cleaning).
5630	Water, cold.
5632	Salt water and soap.
5651	Crocking of cloth.
5660	Light; accelerated (Fade-Ometer).
5670	Weather; accelerated method (Twin Arc Weather-Ometer).
5671	Weather; accelerated method (National Weathering Unit).
5680	Perspiration; perspirometer method.
5682	Perspiration; tube method.
	Mildew Resistance
5750	Mildew resistance; direct inoculation, pure culture, sterile specimen method.
5760	Mildew resistance; mixed culture method.
5762	Mildew resistance; soil burial method.
	Deterioration
5804	Weathering; accelerated (National Weathering Unit).
	Fire-Resistance Thermal Tests
5902	Flame resistance; vertical.
5903	Flame resistance of cloth; modified vertical.

GENERAL NOTES

WOOL CLOTHS - WOVEN

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) As specified.
(2) Width exclusive of selvage.
(3) Colormatching.
(4) Bid sample and laboratory report.
(5) Weave diagrams or instructions.
(6) Finishing and loading materials use prohibited.
(7) Preproduction sample approval.
(8) See specification for woven design and insignia requirements.
(9) See specification for applicable tolerances.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

WOOL CLOTHS-WOVEN

NOMENCLATURE	YARN Fiber	YARN Grade U.S.D.A.	YARN System	YARN Ply	Wool Content	Width Inch	Weight Oz/Sq.Yd. Max	Weight Oz/Sq.Yd. Min	Weave	Thickness	Yarns Per Inch Min. (5050) W	Yarns Per Inch Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Shrinkage Max. (5556)	Point Value Max.
Bunting; Wool CCC-B-801, Amd. 3	Wool		Worsted	W 2x2 F		(1)	-	4.0	Plain		32	32	35	34		
Cloth, Serge, Wool; Wool and Nylon MIL-C-823E, Amd.2 (See also under Mixed Fiber Cloths)																
Type I - Wool						(2)										
Class 1 - 18 oz.	Fleece	60's	Bradford,	2x2	95%	60	-	18.0	2		68	54	110	100	4%-2½%	10.00
Class 2 - 16 oz.	and/or	"	French or	2x1	min.	min.	-	16.0	2		70	54	100	80	4%-2½%	10.00
Class 3 - 16 oz.	pulled	64's	American	2x2	"	"	-	16.0	4-harness		68	64	100	90	4%-3%	10.00
Class 5 - 15 oz.	wool	62's		2x2	"	"	-	15.0	right		70	56	100	80	5%-3%	10.00
Class 7 - 12 oz.		64's		2x2	"	"	-	12.0	twill		74	70	80	70	5%-3%	10.00
Class 8 - 12 oz.		"		2x2	"	"	-	12.0			70.	62	80	70	3%-2%	10.00
							(Based on lin. yd. 56" wide)									
Type II - Wool and Nylon																
Class 1 - 18 oz.																
Class 2 - 16 oz.																
(See under Mixed Fiber Cloths)																
Cloth, Wool, Gabardine (Venetian), 13-Ounce Blue 84 MIL-C-824	Fleece and/or pulled wool	64's		2x2		(2) 56	(lin. yd. of 56 in.) -	13	4/1 5-harness W-faced satin 3-counter (5)		92	58	110	60	(5590) 5%-3%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as testing strength, etc.)	NOTES (Not Specification Requirements)
CCC-B-801		Color (1) - standard sample available. Colorfastness - standard sample available (5651-5630-5632-5660).	Bunting shall be made with two non-raveling edges, woven single width.	
MIL-C-823E Type I Class 1 Class 2 Class 3 Class 5 Class 7 Class 8 Type II Class 1 Class 2	Fulled, sheared, and otherwise finished so as to provide stability of both finish and color - std. sample available. pH: 5.5-8.5 (2811).	Color, colorants, and methods of coloring (1). Standard sample available (3). Colorfastness - standard sample available (5660-5622-5680-5651).	(4) Pre-production sample approval where specified.	Intended Use - In service, semi dress, and dress uniforms, and functional clothing.
MIL-C-824	Scoured, closely sheared, well pressed, clear face, with a firm feel or handle - standard sample available. pH: 4.0-8.0 (2811). (6)	Color - Blue 84. Produced by a blend of wool tops dyed with vat or chrome dyes using 1 or more shades of blue with pearl (3). Colorfastness - "good" (5660-5651-5682-5622).	(7)	Intended Use - In the manufacture of clothing items for the Air Force.

WOOL CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber	YARN: Grade U.S.D.A.	YARN: System	YARN: Ply	Wool Content	Width Inch	Weight Oz/Sq. Yd. Max.	Weight Oz/Sq. Yd. Min.	Weave	Thickness	Yarns Per Inch Min. (5050) W	Yarns Per Inch Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Shrinkage Max. (5556)	Point Value Max.
Blanket, Bed (Wool) MIL-B-844F, Amd. 2																
Type I - Twill weave																
Grade A - 100% new wool Size 3 - 66x90" Color - Olive Green 118	Grade A blankets - Warp and filling yarn from fleece and/or pulled wool from blend: 50% (min.) 56's - 60's 50% (max.) 44's - 60's				95%		untreated blanket 21.5 oz/lin yd. min. (a) (Based on lin. yd. 56" wide)		either 2 straight 2 twill or 2 broken 2 twill 2-right 2-left		28	30	50	50	Preshrunk 6%-4% (rel-(felt-ing) ing)	
Grade B - New wool & reprocessed blend Size 1 - 60x84" Color - Gray 3119	Grade B blankets - Warp and filling yarn from fleece and/or pulled wool from blend: 65% (min.) 54's - 60's Reprocessed wool of: 35% (max.) 48's - 60's				95%						28	30	45	45	6%-4%	
Size 2 - 66x84" Color - Olive Green 118	Spun on the woolen system.				95%						28	30	45	45	6%-4%	
Size 3 - 66x90" Color - Olive Green 118					95%						28	30	45	45	6%-4%	
Type II - Double Woven																
Grade A - 100% new wool Size 3 - 66x90" Color - White with stripes					95%		untreated blanket 23.0 oz/lin yd. min. (a)		double woven twill face 1 2 twill back 2 1 (5)		37	39	45	45	6%-4%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-B-844F Type I Grade A Size 3 Color-118 Grade B Size 1 Color-3119 Size 2 Color-118 Size 3 Color-118 Type II Grade A Size 3 Color	Finished blanket shall be fully napped - standard sample available. Treated for resistance to felting shrinkage by an oxidation or melamine formaldehyde resin process. Process shall not increase alkali solubility of treated blanket more than 6% over the untreated blanket. Stiffness of treated blanket shall not be more than 0.011 load lb. (2800-5202). pH: 4.0-8.0 (2811).	Color - Gray, to be obtained by stock dyeing with suitable chrome dyestuffs to match Navy Shade 3119 (3). Olive Green No. 118, to be obtained by blending olive green dyed wools with white wool. Chrome acid milling or neutral dyeing premetallized dyes shall be used (3). White - unbleached white (3). Maroon - Yarn used for weaving stripes for white blanket shall be chrome dyed a Maroon No. 165 (3). Standard sample available for all colors. (8) Colorfastness - Type I blankets & maroon stripes of Type II blankets - standard sample available (5660-5614-5651).	(a) Resin treatment for producing shrink resistance shall not increase the weight of the untreated blanket by more than [illegible]%.	Intended Use - Type I, Grade A or B, size 3, olive green is a medical field blanket. Type I, Grade B, size 1, gray is a Navy crew blanket. Type I, Grade B, size 2, olive green is used by the Army, Navy, Air Force and Marine Corps. Type II, Grade A, size 3 is a hospital blanket.

WOOL CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber	YARN: Grade U.S.D.A.	YARN: System	YARN: Ply	Wool Content	Width Inch	Weight Oz/Sq. Yd. Max	Weight Oz/Sq. Yd. Min	Weave	Thickness	Yarns Per Inch Min. (5050) W	Yarns Per Inch Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Shrinkage Max. (5556)	Point Value Max.
Cloth, Wool, Velour, 28-Ounce, Blue-85 MIL-C-848, Amd. 1																
Type I - Virgin Wool	(a) 60% fleece and/or pulled wool	60's	Woolen	1x1		(2) 56	28 oz/lin yd		face warp, back warp, interlaced with single filling (5)		60	36	80	40	$3\frac{1}{32}$-$2\frac{1}{32}$	
Type II - Virgin Wool & Reprocessed Wool	40% noils (max.)	60's	Woolen	1x1		56	"								$3\frac{1}{32}$-$2\frac{1}{32}$	
Cloth, Fleece, Wool 21.5 Ounce MIL-C-2049C	Fleece and/or pulled wool	50's	Woolen	1x1	95% min.	(2) 59	21.5 - oz/lin yd (based on lin yd of 56 in.)		2/2 broken 2 twill 2-right 2-left		28	30	50	50		15.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-848 Type I Type II	Scoured, fulled, napped, and free from vegetable matter (carbonized if necessary), with a uniformly developed velour finish on the face equal to the standard sample. Standard sample for both types shall be from Type I cloth. pH: 4.0-8.0 (2810-2811). (6)	Color - color shall match blue - 85 (3) & shall be stock dyed with chrome or vat dyes. Colorfastness - std. sample available (5651-5622).	(7) (a) Type II cloth-colored noils or reprocessed wool may be used in the blend.	Intended Use - In the manufacture of clothing items for the Air Force.
MIL-C-2049C	Scoured, fulled, with both sides napped. Standard sample available. Nap fibers should offer considerable resistance to lifting with a needle (6.4). pH: 4.0 - 8.0 (2811).	Color - Olive drab No. 118, produced by blending stock dyed wools of olive green with white wool - standard sample available (3). Colorfastness - standard sample available (5680-5622).		Intended Use - In the removable liner for firemen's Olive Drab Shade No. 7 coat.

WOOL CLOTHS-WOVEN

NOMENCLATURE	YARN Fiber	YARN Grade U.S.D.A.	YARN System	YARN Ply	Wool Content	Width Inch	Weight Oz/Sq. Yd.	Weave	Thickness	Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Shrinkage Max. (5554)	Point Value Max.
				W F			Max Min			W	F	W	F		
Cloth, Flannel, Wool, 10½ Ounce Shrink Resistant MIL-C-2184D	Fleece and/or pulled wool	60's	Bradford French or American	1x1	95% min.	(2) 60	12.6 10.5 oz/lin yd (based on lin yd. of 56 in.)	2/2 right twill		68	68	55	55	5%-4% relaxation 4%-3% felting	10.00
Cloth, Flannel, Wool, Lining, 12 Ounce MIL-C-3191D	Fleece and/or pulled wool	60's	Woollen	1x1	95% min.	(2) 56 min.	- 12.0 oz/lin yd	2/2 right twill 4-harness		33	33	35	30	5%-3%	10.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-2184D	Scoured, sheared, and pressed. Standard sample available. Given an approved shrinkage control treatment by an oxidation resin or by interfacial polymerization process. Stiffness of treated cloth shall be 0.003 load lb. max. in the warp direction (5202). When oxidation method is used, the alkali solubility of the treated cloth shall not have increased over 6% (absolute)(2800). pH: 4.0-8.0 (2811).	Color (1) - standard sample available (3). Color shall be obtained by blending top dyed wool. Colorfastness - standard sample available (5660-5680-5651-5614).		Intended Use - As shirting material for both male and female personnel.
MIL-C-3191D	Scoured, fulled (carbonized if necessary, napped & sheared on the face & on the back. Standard sample available. pH: 4.0 - 8.0 (2811).	Color (1) - standard sample available (3). Colorfastness - standard sample available (5622-5680-5651).		Intended Use - In removable liners in men's and women's wool overcoats.

WOOL CLOTHS-WOVEN

NOMENCLATURE	YARN Fiber	YARN Grade U.S.D.A.	YARN System	YARN Ply	Wool Content	Width Inch	Weight Oz/Sq. Yd.	Weave	Thickness	Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Shrinkage Max. (5556)	Point Value Max.
				W F			Max Min			W	F	W	F		
Cloth, Barathea, Wool MIL-C-3727C															
Type I - 14.0 oz.	Fleece and/or pulled wool	70's	Bradford French or American	2x2	95% min.	(2) 60 min.	- 14.0 oz/lin yd	8-harness barathea (5)		80	86	70	85	4%-3½%	15.00
Type III - 15.0 oz.		70's			"	"	- 15.0 oz/lin yd (Based on lin yd of 56 in.)			85	75	125	100	4%-3½%	15.00
Cloth, Elastique, Wool MIL-C-3738D															
Type I - 19 oz.	Fleece and/or pulled wool	70's	Bradford French or American	2x2	95% min.	(2) 60 min.	- 19.0 oz/lin yd	(5)		128	98	160	90	5½%-3%	15.00
Type II Class 1 - 18 oz.		64's	"	2x2	"	"	- 18.0 oz/lin yd	(5)		124	80	140	80	6%-4%	15.00
Class 2 - 18 oz.		70's	"	2x2	"	"		(5)		124	80	140	80	6%-4%	15.00
Type III - 16 oz.		70's	"	2x2	"	"	- 16.0 oz/lin yd (Based on lin yd of 56 in.).	(5)		138	96	130	70	5½%-3%	15.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-3727C Type I Type III	Scoured, fulled and sheared - standard sample available. pH: 5.5 - 8.0 (2811).	Color (1) - standard sample available (3). Produced by blending the proper shades of stock or top dyed wool, and obtained by the use of chrome, vat, or neutral premetallized dyes or combinations thereof. Colorfastness - standard sample available (5660-5651-5622-5680).		Intended Use - In the manufacture or uniform items.
MIL-C-3738D Type I Type II Class 1 Class 2 Type III	Face shall be clear and closely sheared - standard sample available. pH: 5.5 - 8.5 (2811).	Color (1) - standard sample available (3). Color shall be obtained by stock or top dyeing, piece dyeing will not be permitted. Colorfastness - standard sample available (5660-5651-5622-5680).		Intended Use - In the manufacture of clothing items.

WOOL CLOTHS-WOVEN

NOMENCLATURE	YARN Fiber	YARN Grade U.S.D.A.	YARN System	YARN Ply W	YARN Ply F	Wool Content	Width Inch	Weight Oz/Sq. Yd. Max	Weight Oz/Sq. Yd. Min	Weave	Thickness	Yarns Per Inch Min. (5050) W	Yarns Per Inch Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Shrinkage Max. (5655)	Paint Value Max.
Cloth, Wool, Gabardine, 12 Ounce MIL-C-6403 (USAF)																	
Type I - Blue 84	Fleece and/or pulled wool	64's	Worsted	2x2			(2) 56	-	12 oz/lin yd	2/1 right twill		84	52	110	50	5%-3%	
Type II- Gray 167		64's	"	2x2				-	"	"		84	52	110	50	5%-3%	
Cloth, Gabardine Wool, Polyester and Wool MIL-C-10176F, Type 2 (See also under Mixed Fiber Cloths)																	
Type I - Wool Class 3- 11 oz.	Fleece and/or pulled wool	62's	Bro[illegible]cord French or American	2x2		95%	(2) 60 min.	-	11	2/1 right twill		86	48	80	42	4%-3%	(All shades but M-1) 10.0
Class 5- 14.5 oz.		64's		2x2		95%	"	-	14.5	2/2 right		112	56	115	65	5%-3%	15.0
Class 7- 16 oz.		64's		2x2		95%	"	-	16	2/2 twill		120	60	120	55	4%-3%	(M-1)
Type II - Polyester wool blend (See also Mixed Fiber Cloths)								(based on a lin yd of 56 in)									
Cloth, Flannel, Wool Undercollar Cloth MIL-C-15062E	Fleece and/or pulled wool	56's	Woolen	1x1		95% min.	(2) 56	12.5 oz/lin yd	10.5	Plain		26	23	24	16		15.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-6403 Type I Type II	Scoured, closely sheared, well pressed, clear faced, with a firm feel or handle. Standard sample available. pH: 4.0 - 8.0 (2810-2811) (6)	Color - Type I shall match Blue 84 & be produced by a blend of wool tops dyed with vat or chrome dyes using one or more shades of blue with pearl (3). Type II shall match Gray 167 and be produced by vat or chrome dyes (3). Colorfastness - "good" (5660-5651-5622-5680).		
MIL-C-10176F Type I Class 3 Class 5 Class 7 Type II	Scoured, brushed, sheared and singed, pressed and decated. Standard sample available. pH: 5.5 - 8.5 (2811).	Color (1) - standard sample available (3). To be obtained by blending top or stock dyed wools. Colorfastness - standard sample available (5622-5651-5660-5680).		Intended Use - In the manufacture of clothing.
MIL-C-15062E	Clean, fulled (carbonized if necessary), pressed, with a face evenly sheared. Finished cloth shall have finish & hand to match standard sample. pH: 4.0 - 8.0 (2811).	Color (1) - standard sample available (3). Piece dyeing is permitted. Colorfastness - standard sample available (5651-5622-5680).		Intended Use - As a facing for the underside of the collar of the uniform coats and overcoats.

WOOL CLOTHS-WOVEN

NOMENCLATURE	YARN Fiber	YARN Grade U.S.D.A.	YARN System	YARN Ply	Wool Content	Width Inch	Weight Oz/Sq. Yd.	Weave	Thickness	Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Shrinkage Max. (5556)	Point Value Max.
				W F			Max Min			W	F	W	F		
Cloth, Wool, Serge (12½ Ounce) MIL-C-15506B (SA)															
Type I - Unshrunk, untreated	Fleece and/or pulled wool	62's	Worsted	2x1		(2) 56	13.5 (e) 12.5	2/2 right twill		69	63	80	60	4%-2½%	
Type II - London shrunk untreated		62's	"	2x1		"	13.5 12.5	"		70	64	80	60	2%-1%	
Type III - London water repellent treated, shrunk	"	62's	"			"	13.5 12.5	"		70	64	80	60	2%-1%	
Cloth, Wool, Flannel; Green MIL-C-15779B (MC)	Fleece and/or pulled wool	58's		1x1		(2) 58	10.1 9.1 oz/lin yd	2/2 right twill		72	66	50	40	(5590) 4%-2%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-15506B Type I Type II Type III	Types I & II - closely sheared, with a clear finish. Type I - unshrunk; Type II - London shrunk. Standard sample for hand & finish. Cloths shall contain no soaps, detergents or finishing materials that will interfere with the application or efficiency of water repellent compounds. Type III, same as Type II, but with a durable water repellent treatment. Spray rating: 90 (min) initially; 70 (min) after one dry cleaning (5524). Hydrostatic Pressure: 8 in. initial, 6 in. after one dry cleaning (5514). pH: 4.0 - 8.0 (2810-2811). (6)	Color (1) - stock or top dyed with chrome dyestuffs to match standard sample (3). Colorfastness - sample of reference available (5660-5680-5622-5651).	(7) (a) oz/lin yd. Cloth shall have a selvage of ½ (±1/16) in. on each side & shall include 4 or more white warp ends.	Intended Use - In the manufacture of uniforms for female Naval personnel.
MIL-C-15779B	Fulled and covered, napped, sheared and pressed, with the soft feel or handle characteristic of flannel. Standard sample available. pH: 4.0 - 8.0 (2810-2811).	Color - Cloth shall be stock or top dyed to match standard shade Green 3218. Green color to be produced by blending colored wools with white wool (3). Colorfastness - standard sample available (5660-5651-5622-5614-5680-5682).		Intended Use - In the manufacture of shirts.

WOOL CLOTHS-WOVEN

NOMENCLATURE	YARN				Wool Content	Width Inch	Weight Oz/Sq Yd.		Weave	Thickness	Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Shrinkage Max. (5558)	Point Value Max.
	Fiber	Grade U.S.D.A.	System	Ply												
				W F			Max	Min			W	F	W	F		
Cloth, Wool, Kersey; 17-Ounce; Green MIL-C-15780B (MC)	Fleece and/or pulled wool.	60's	Woolen	1x1		(1)	18.0 oz/lin yd	17.0	2/2 broken twill 4-harness 2-right, 2-left		60	58	70	54	(5558) 3½%-2%	
Cloth, Melton, Wool MIL-C-16291D (SA) Amd. 1																
Type I - 16 oz. Blue 3313	Fleece and/or pulled wool	64's	Woolen	1x1	95% min.	(2) 56	17.0 oz/lin yd	16.0	2/1 right twill		60	55	58	46	(5590) 4%-3%	10.00
Type II - 22 oz. Class 1 - Blue 3314 Class 2 - Blue 3315 Class 3 - Blue 3327		60's	"	1x1	"	56	24.0 oz/lin yd	22.0	3/1 crow foot		55	45	60	60	4½%-2%	10.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-15780B	Type and character of finish shall conform to the standard sample. pH: 4.0 - 8.0 (2810-2811).	Color - cloth to be stock dyed and blended with white wools to match standard shade Green 2205 (3). Color-fastness - standard sample available (5660-5651-5622-5680-5682).		Intended Use - In the manufacture of enlisted men's garrison caps, service cap frame covers, uniform coats and trousers, and men's and women's overcoats.
MIL-C-16291D Type I Type II Class 1 Class 2 Class 3	Type and character of finish shall match standard sample. Cloth shall be scoured, fulled (carbonized if necessary), face evenly sheared and well pressed. When specified, cloth shall be treated with moth repellent in accordance with method specified by contracting officer.	Color (1) - Type I shall match Blue 3313. Type II Class 1 shall match Blue 3314; Class 2 shall match Blue 3315; Class 3 shall match Blue 3327 (3). Color shall be produced by stock dyeing with suitable chrome dyestuffs. Colorfastness - standard sample available (5614-5622-5651-5660-5680).	(7) Type II, air permeability; 20 ft.^{3}/minute	Intended Use - In the manufacture of clothing items.

WOOL CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber	YARN: Grade U.S.D.A.	YARN: System	YARN: Ply (W F)	Wool Content	Width Inch	Weight Oz/Sq. Yd. (Max / Min)	Weave	Thickness	Yarns Per Inch Min. (5050) W	Yarns Per Inch Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Shrinkage Max. (5556)	Point Value Max.
Cloth, Flannel, Wool MIL-C-16291D (SA)	Fleece and/or pulled wool	60's	Woolen	1x1	95% min.	(2) 56	Max 12.0 oz/lin yd; Min 11.0 oz/lin yd	2/2 right twill		56	48	35	35	(5590) 3½%-4%	10.00
Cloth, Whipcord, Wool MIL-C-17248C (SA)	Fleece and/or pulled wool	70's	Worsted	2x2	95% min.	(2) 60 min.	- 17.0 oz/lin yd	4/2 1/2 63° right twill (3)		104	84	98	52	(5590) 4%-3%	10.00
Cloth, Billiard MIL-C-17566A (SA)	Staple fleece and/or pulled wool	56's	Woolen	1x1		(2) 60	- 17.2 oz/lin yd	2/1 right twill		50	40	50	45		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-16291D	Flannel finish, well pressed, with a lustrous face, nap and hand equal to that of standard sample. When specified, cloth shall be treated with moth repellent by a method specified by contracting officer.	Color (1) - standard sample available (3). When blue is specified, shade shall be Blue 3311; when Olive Drab, shade shall be OD 3705. Color shall be produced by stock dyeing with chrome dyestuffs. Colorfastness - standard sample available (5660-5620-5680-5614-5670-5651).	(7)	Intended Use - In the manufacture of uniforms for male Naval personnel.
MIL-C-17248C	Scoured, with hand and finish equal to approved sample. Face shall be sheared and well pressed. When specified, cloth shall be treated with moth repellent by a method specified by contracting officer. pH: 4.0 - 8.0 (2810-2811).	Color (1-2). Standard sample available. To be produced by stock or top dyeing with chrome dyestuffs. Blue shall match Blue 3354. Green shall match Green 3401. Colorfastness - standard sample available (5614-5622-5651-5660-5680).	(7) Cloth shall have a min. seam efficiency of 80% (5110).	Intended Use - In the manufacture of uniforms.
MIL-C-17566A	Finish and hand equal to standard sample. Sheared, fulled, free from vegetable matter (carbonized if necessary) and face evenly sheared.	Color - Green 3402, equal to std. shade (3). Colorfastness - standard sample available (5660-5651).	(7) Cloth shall have a selvage of ¼ (±1/16) in. on each side.	Intended Use - As table cloths.

WOOL CLOTHS-WOVEN

NOMENCLATURE	YARN Fiber	YARN Grade U.S.D.A.	YARN System	YARN Ply W	YARN Ply F	Wool Content	Width Inch	Weight Oz/Sq. Yd. Max	Weight Oz/Sq. Yd. Min	Weave	Thickness	Yarns Per Inch Min. (5050) W	Yarns Per Inch Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Shrinkage Max. (5558)	P W
Cloth, Tropical; Wool; Polyester/Wool MIL-C-21115E, Amd. 1 (See also under Mixed Fiber Cloths)																	
Type I - Wool Class 1- 10.5 oz. Class 2- 8.5 oz. Type III - Polyester-wool blend (See under Mixed Fiber Cloths)	Fleece and/or pulled wool	64's 64's	Bradford French or American	2x2 2x1		95% min.	(2) 60 min.	(9) 11 - 8.5 (Based on lin. yd. 56" wide)	10	Plain "		50	46	55	50	4%-3%	(All st but M- 12. 15. (M-1
Blanket, Fire; Wool, With Case MIL-B-59309 (MD)	Reprocessed wools, blend	50's	Woulen							2/2 broken twill 2-right, 2-left		15	15	22	16	(5554) 6%-6%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirement)
MIL-C-21115E Type I Class 1 Class 2 Type III	Scoured, brushed, sheared, and singed, pressed and decated to provide a finish equal to that of the standard sample. Finish-cloth shall show no more creping after shrinkage test (5558) than standard sample. pH: 5.5 - 8.5 (2811).	Color (1) - standard sample available (3). Color shall be obtained by blending stock and top dyed wools. Colorfastness - standard sample available (5682-5651-5660-5680).		Intended Use - Class 1, in the manufacture of shirts, coats, trousers for officers and enli personnel. Class 2, for neckt
MIL-B-59309	Blanket shall be free from vegetable matter and shall be frilled and napped to produce a soft finish. Blanket shall be fire-resistant.	Colorfastness - "good" (5671-5616-5651).	Preproduction model of blanket and case shall be submitted.	Intended Use - For extinguishir fires on personnel.

WOOL CLOTHS-WOVEN

NOMENCLATURE	YARN Fiber	YARN Grade U.S.D.A.	YARN System	YARN Ply	Wool Content	Width Inch	Weight Oz/Sq.Yd.		Weave	Thickness	Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Shrinkage Max. (5556)	Point Value Max.
				W F			Max	Min			W	F	W	F		
Cloth, Broadcloth, Wool, and Wool Synthetic MIL-C-82252 (See also under Mixed Fiber Cloths)																
Type I - Wool						(2)									(5590)	
Class 1- 14.5 oz. Blue	Fleece and/or pulled wool	64's	Woolen	1x1	95% min.	56	15.0	14.0	2/1 right twill		54	50	45	42	5%-4%	15.00
Class 2- 15.5 oz. Blue		70's	"	1x1	"	54	16.0	15.0	"		56	55	50	45	2%-1½%	15.00
Class 3- 16.5 oz. Blue		70's	"	1x1	"	56	17.0	16.0	"		60	58	40	35	3½%-3½%	15.00
Class 4- 16.5 oz. Scarlet or Black		60's	"	1x1	"	54	17.0	16.0	"		54	54	55	45	3½%-2½%	15.00
Class 5- 23.0 oz. Blue		70's	"	1x1	"	56	24.0 oz/lin yd	22.0	"		90	64	65	40	4%-3%	15.00
Type II - Wool/Synthetic blend (See under Mixed Fiber Cloths)																

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-82252 Type I Class 1 Class 2 Class 3 Class 4 Class 5 Type II	Scoured, fulled, free from vegetable matter, with a uniformly developed broadcloth finish. Finished cloth shall be pressed & have a lustrous face finish like that of the standard sample. When specified, cloth shall be treated with moth repellent in accordance with the method specified by the contracting officer. pH: 4.0 - 8.0	Color - for Type I, Classes 1,3,4 and 5, color shall be produced by stock dyeing with chrome dyestuffs to match approved std. shades (3) Class 1 - Blue 3319 Class 3 - Blue 3320 Class 4 - Scarlet 2501 or Black (1) Class 5 - Blue 3321. Type I, class 2 & Type II, class 1 shall be produced with indigo dye, Blue 2307. Colorfastness - standard sample available (5660-5662-5680-5651).	(7)	Intended Use - In service, semi-dress, and dress uniforms and functional clothing.

REFERENCES

WOOL CLOTHS - WOVEN

Textile Test Methods - CCC-T-191b

Method	Title
	Chemical
2800	Wool fiber damage, alkali solubility method.
2810	Acidity (pH), colorimetric method.
2811	Acidity (pH), potentiometric method.
	Construction
5050	Yarns per inch in woven cloth.
	Mechanical
5100	Strength and elongation, breaking, of woven cloth, grab method.
5202	Stiffness, directional; cantilever bending method (Tinius Olsen).
	Air Permeability and Water Resistance
5514	Water resistance hydrostatic pressure, low range.
5526	Water resistance with hydrophobic finish; spray method.
	Shrinkage Resistance
5556	Shrinkage in laundering; mobile laundry method.
5558	Shrinkage, relaxation; wool cloth.
5590	Shrinkage in sponging; cloth.
	Colorfastness
5614	Laundering of wool, silk, rayon cloth; Launder-Ometer.
5620	Dry cleaning (petroleum solvent).
5622	Wet cleaning (with dry cleaning).
5630	Water, cold.
5632	Salt water and soap.
5651	Crocking of cloth.
5660	Light; accelerated (Fade-Ometer).
5670	Weather; accelerated method (Twin Arc Weather-Ometer).
5671	Weather; accelerated method (National Weathering Unit).
5680	Perspiration; perspirometer method.
5682	Perspiration; tube method.

GENERAL NOTES

SYNTHETIC OR MIXED SYNTHETIC CLOTHS - WOVEN

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) As specified.
(2) See specification for requirements after aging, weathering, water immersion, etc.
(3) Colormatching.
(4) See specification for weave diagrams or instructions.
(5) Width inclusive of selvage.
(6) Restrictions on use of sulfur dyes.
(7) See specification for applicable tolerances.
(8) Nonfibrous, etc., restrictions.
(9) Width exclusive of selvage.
(10) Use of finishing and loading materials prohibited.
(11) Preproduction sample.
(12) Bid sample and laboratory report.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			W | F	W | F	W | F		Min | Max		W | F	W | F	W | F		W | F	
Screening, Non-metallic, Insect L-S-125, Amd. 3(GL) (See also under Coated Cloths)														
Type I - Polyvinylidene chloride										Initial Bursting Strength (lb/in^2) (2)			(After heat aging)	
Class 1- 0.0120" diameter														
Size 16x16	(softening point) 140°C. min.	Polyvinylidene Chloride				(1)				160	min. tensile strength of filaments 26,000 psi		5%	
Size 18x14						(1)				160			5%	
Size 18x18						(1)				165			5%	
Size 20x20						(1)				170			5%	
Size 22x22						(1)				175			5%	
Class 2- 0.0150" diameter														
Size 16x16	"	"				(1)				160	"		5%	
Size 18x14						(1)				160			5%	
Size 18x18						(1)				165			5%	
Size 20x20						(1)				170			5%	
Size 22x22						(1)				175			5%	
Type II - Plastic Coated or Impregnated Fibrous Glass (See under Coated Cloths)														

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
L-S-125 Type I Class 1 Size 16x16 Size 18x14 Size 18x18 Size 20x20 Size 22x22 Class 2 Size 16x16 Size 18x14 Size 18x18 Size 20x20 Size 22x22 Type II		Color - shall be natural (light straw color), aluminum, bronze, or green No. 14036 of Fed. Std. No. 595 as specified. Colorfastness - "fair" (4.4.11).	Minimum elongation of filament 20%. Resistance to water immersion: average change in length shall be 2% max. (4.4.6). Finished screening shall have a woven or mock selvage of at least 6 ends in each edge. Screen shall show no blocking in excess of Scale No. 1 (5872-4.4.9). Tension required for complete slippage of the filament shall not be less than 5 lb. (5100-4.4.13). Screening shall not burn for more than 10 sec. after removal of a match flame (4.4.15). When specified, screening shall have an incorporated fungicide. Screening shall show no evidence of fungus growth when tested (4.4.16).	Intended Use - For installation in or on any dwelling, patio, screen enclosure, building of structure, for the purpose of preventing the ingress of flies, mosquitoes, or other insects, particularly where corrosive conditions are encountered.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Net, Laundry, (Nylon) JJ-N-180d, Amd. 2 (See also under Knitted Cloths)																						
Type I - With grommets																						
Type II - Without grommets																						
Size 1- 10x15 in.		Nylon			260		16	18		3.0	3.6	1 leno	46-	26-								
Size 2- 12x22 in.		"			260		16	18		3.0	3.6	1 weave	48	28								
Size 3- 18x30 in.		"			260		16	18		3.0	3.6	"										
Size 4- 24x36 in.		"			260		16	13		3.0	3.6	"										
Cloth, Acetate-Rayon, Tow Target, Rip-Stop Twill Weave MIL-C-333C		Bright acetate yarns & medium high tenacity viscose rayon yarns.							(1)	-	5.3	2 twill 1 (2 W ends weaving as 1)	(a) 148	55	(5104) 65	50	5	5	5 (1.5 at pressure drop of ½ in. across the cloth)			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
JJ-N-180d Type I Type II Size 1 Size 2 Size 3 Size 4	Nylon fabric shall be scoured and heat set.	Color - Shall be white (natural).	Selvage to be used at the bottom of the net for sizes 3 & 4 bags shall be reeded alternately 4 ends & 2 ends per dent to a minimum width of 3/4 in. Selvage for the top pin edge of all sizes shall be reeded 2 ends per dent, skip 1 dent, 2 ends per dent for 2-2½ in., then alternate 4 ends & 2 ends per dent to a minimum width of 3/4 in. Meshes per inch: 598-675. Bursting strength: 175 lb. min. (5120). Grommets shall conform to Type I, Class 1, Size 4 of MIL-G-16491.	Intended Use - in laundries for washing items of clothing.
MIL-C-333C	Scoured. Cloth shall contain no sizing, lubrication, or weighting materials. Smooth, glazed surface. Cloth shall not contain chloroform-soluble material in excess of 2% of dry weight. (2611). pH: 6.0 - 8.0 (2811).	Color (1-3). Colorfastness - "good" (5630-5632-5651-5660).	(a)The rip-stop weave shall repeat on 31 ends of bright acetate & 3 ends of medium high-tenacity viscose rayon & on 16 picks of bright acetate & 2 picks of medium high-tenacity viscose rayon. Missing rip-stop picks in the filling shall be marked in the greige state (4). Elongation: Warp - 12% max; Filling - 20% max. (5104).	Intended Use - In the manufacture of aerial tow targets.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Satin, Rayon And Cloth, Twill, Rayon MIL-C-368F, Amd. 1																						
Class 1 - Twill 2/1 right, 3.7 oz.	Rayon						Multi-filament		(5) 41 min.	3.7	-	2/1 right twill	121	67	(dry) 100	50	(wet) 40	20	(5550)	6%	3%	25.00
Class 2 - Twill 2/1 right, 4.2 oz.	"						"		"	4.2	-		142	71	115	55	46	22		6%	3%	25.00
Class 3 - Satin 5-harness, 5 oz.	"						"		"	4.5	-	5-harness satin (4)	180	67	150	55	60	22		6%	3%	25.00
Cloth, Nylon Bunting And Cloth, Nylon-And Wool Bunting CCC-C-476d (See also under Mixed Fiber Cloths)																						
Type I - 100% nylon filament																						
Class A - Lt. wgt.	Bright high tenacity		1	2	70	70	Continuous		(1) ±½	2.7	-	Plain	106	76	125	155						
Class B - Hvy. wgt.			1	1	200 or 210					3.6	-	"	62	50	225	152						
Type II - 75% nylon (staple) and 25% wool (See under Mixed Fiber Cloths)																						

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-368F Class 1 Class 2 Class 3	Natural finish. Use of resins, oils, starches, or gums in the finishing of the cloth is prohibited.	Color (1) - standard sample available (3-6). When an additive is required to fix the dyestuffs to the fibers, formaldehyde shall not be the principle fixing agent, and the additive material used shall not create an odor or cause degredation of the cloth during storage. Colorfastness - standard sample available (5680-5622-5651).		Intended Use - In the manufacture of clothing items, as lining cloth.
CCC-C-476d Type I Class A Class B Type II	Commercial-type antistatic finish.	Color (1) - standard sample available. Colors for the Flag of the United States shall be in accordance with Spec. TT-C-591 and DD-F-416 (3). Colors other than for the Flag of the United States shall match the applicable color card of sample (3). Colorfastness - standard sample available (5632-5630-5651-5660).	There shall be a plain woven selvage on each side, ½ in. ± 1/8 in. wide, with 2 ends weaving as 1.	Intended Use - In the manufacture of various types of flags.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Pressing, Nylon CCC-C-482a																						
Type I - Spun yarn W & F	250° ± 6°C	(a) staple or multi-filament nylon (1)	2	2	-	-	-	-	(5) 54 min.	7.0		Plain	38	36	210	220				3%	2%	35.00
Type II - Filament W and spun yarn F	"		-	2	260 or 210	-	bright multi-filament	-	"	5.6		2/1 right twill	66	54	280	240				3%	2%	35.00
Type III - Spun yarn W & filament yarn F	"		2	-	-	260 or 210	-	bright multi-filament	"	5.6		"	54	60	240	280				3%	2%	35.00
Type IV - Filament yarn W & F	"		-	-	260 or 210		bright multi-filament		"	3.6		Plain	60	42	250	180				3%	2%	30.00
Cloth, Parachute, Synthetic-Fiber (For Ammunition Parachutes) MIL-C-498B																						
Type D - Nylon (0.88 oz.)	472°F	nylon-polyamide			30 ± 3%	30	Multi-filament		(1) ±½	-	0.88	Plain	93 ± 3		40	40	(5136) 3	3	300-500			
Type E - Nylon (2.20 oz.)	472°F min.	(a)			70 ± 3%	70	"		"	-	2.20	"	104	91	65	65	4	3	60-100			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
CCC-C-482a Type I Type II Type III Type IV	Cloth shall be heat treated at not less than 380°F. heat treated cloth shall be given an additional resin or other type of finish to increase the heat resistant properties. Warp and filling yarns of the finished cloth shall not slip or distort (5410). Finished cloth shall not lose more than 50% initial breaking strength after aging (5850-5100). Finished cloth shall not adhere to heated hand iron which has not been treated with any antistick agent such as wax (4.4.2). pH: 4.5 - 8.0 (2811).	Color - Shall be the shade imparted by the finish, provided the individual pieces are uniform in shade. Colorfastness - standard sample available (4.4.1).	(a) Nylon shall be a polyamide prepared from hexamethylene diamine and adipic acid or its derivatives.	Intended Use - As covers for flat oed laundry presses.
MIL-C-498B Type D Type E	(8) Scoured to remove sizing and other contaminants. Cloth shall be heat treated and may be calendered at such temperature and pressure as required to control the air permeability. pH: 5.0 - 8.5 (2811).		(a) Polyamide shall be prepared from hexamethylene diamine and adipic acid or its derivatives. Elongation: 20% min. in warp and filling (5100). (Type D only).	Intended Use - In the manufacture of ammunition and flare parachutes.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Oxford, Nylon 6-Ounce MIL-C-508E, Amd. 1																						
Type I - For clothing, equipage & personnel armor Class 1 - For outerwear use		bright, high tenacity filament nylon	70	100	32-34	32-34			(1)	2.9	-	Oxford (Plain weave, 2 warp ends weaving as 1)	180	76	220	135						30.00
Class 2 - For use as inner lining			70	100	"	"			(1)	2.9	-		180	76	220	135						30.00
Type II - For coating		"	70	100	"	"			(1)	2.9	-		180	76	220	135						30.00
Cloth, Synthetic, Curtain CCC-C-525a		Warp yarn 16/2, cut staple, copolymer of acrylonitrile and vinyl chloride. Yarn dyed. Fill yarn 1.2 run cut staple, polyvinylidene chloride. Pigmented.							56 ±1	11.5	13.5	(4)	50 ±1	24 ±1	175 (2)	55						

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-508E Type I Class 1 Class 2 Type II	(8) Type I - cloth shall be scoured, heat treated with dry heat and/or boiling water, and lightly calendered. Type II - cloth shall be heat treated but not calendered. Shall contain no more than 0.0030% copper nor more than 0.0015% manganese (4.4.2). Finished cloth shall show no distortion, puckering or change in color, and not more than 2% dimensional change(4.4.1). pH: 5.0 - 8.5 (2511).	Color (1) - standard sample available (3). For Navy procurements only, Type I cloth shall be dyed to match Olive Drab, Army Shade 7 and shall be obtained by the use of nonmetallized acid, or disperse dyes; chrome and premetallized dyes are prohibited. Colorfastness - standard sample available. Type I - (5622-5614-5660-5651-5660). Type II - (5622-5614-5660-5651).		Intended Use - Type I, for equipage and personnel armor. Type II, for coating.
CCC-C-525a	Fire resistance: length of flame 3.0 sec. max.; length of char 4.5 in. max. (5902). There shall be no change in fire resistance after laundering or dry cleaning. Hand, drape, and stiffness of sample shall not change after testing (4.4.4).	Color (1). Colorfastness - no change (5660-5651-4.4.1-4.4.3-4.4.2).		Intended Use - For the fabrication of fire-resistant curtains.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN					Width, Inch	Weight Oz/Sq Yd		Weave	Yarns Per In. Min. (5050)		Breaking Strength Lb. Min. (5100)		Tearing Strength Lb (5134)		Air Permeability (5450)	Shrinkage, Max. (5556)		Point Value Max.
	Fiber		Ply	Yarns															
	Melting Point	Type		Denier	Filament														
			W F	W F	W F		Min	Max		W	F	W	F	W	F		W	F	
Cloth, Twill, Nylon, 1.6 and 3.0 Ounce MIL-C-577F, Amd. 1																			
Type I- 1.6 oz.		bright filament nylon		70 ±4	70 ±4	multi-filament	(1) ½ in. selv.	1.6	1.8	2 right 1 twill	80	80	90	90	4	4			30.00
Type II- 3.0 oz.				70 ±4	100 ±5	"		3.0	3.3	2 right 2 twill	165	96	180	170	6	6			35.00
Cloth, Banner, Rayon MIL-C-606D		cuprammonium rayon	2	2		Multi-filament	(1)	5.0	-	2 right 2 twill	282	94	125	50					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-577F Type I Type II	Scoured, but not calendered. (8). Cloth shall be heat treated. After treatment, cloth shall show no appreciable distortion, puckering, or fading; dimensional change shall not exceed 2% in either warp or filling (4.6.1).	Color (1) - standard available (3). Colorfastness - standard sample available (5620-5614-5660-5651-5680).		Intended Use - Type I, as base fabric for coated fabrics. Type II, in cold weather items.
MIL-C-606D	Cloth shall have a hand and drape equal to the standard sample. Use of resin finishes to impart stiffness to the cloth is prohibited, unless otherwise specifically approved and authorized by the contracting officer.	Color (1) - standard sample available (-). Yarns shall be dyed prior to weaving, using vats, naphthols, or cellulose reactive dyes and pigments. Use of solution dyed cuprammonium yarns in lieu of the above is permitted if the hue and intensity of the shade can be achieved. There must be a degree of penetration of the yarn such that the [illegible] shall [illegible] more warm [illegible] than the [illegible] sample. Colorfastness - standard sample available ([illegible]).		Intended Use - In the manufacture of various types of flags.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Netting, Nylon MIL-C-3395E (See under Knitted Cloths)																						
Type I - Woven		bright or semi-dull nylon			70	70	Multi-filament		(1)	1.6	2.0	3 picks plain 1 pick leno (4)	54-56	54-56	50	50				(5552) 2%	2%	30.00
Type II - Warp knitted (See under Knitted Cloths)																						
Cloth, Duck, Nylon MIL-C-3953C																						
Class 1 - Untreated	250°C	High tenacity bright nylon polyamide (a)	5	5	210 ±5%	210 ±5%	34	34	(5) 36 min.	20.5 ± 1		3/4 basket (3 ends weaving as 1, 4 picks/shed)	62	60	1100	1100	135	135				35.00
Class 2 - Melamine resin treated	250°C		5	5	"	"	34	34	"	"			62	60	1100	1100	135	135				35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-3395E Type I Type II	Permanent resin finish. Character of the finished cloth shall be equal to that of the standard sample. Cloth shall be heat set and framed to appropriate dimensions, to assure the proper number of meshes/inch & the size of the meshes.	Color - Cloth shall be dyed Olive Green, Shade No. 106 (1). The use of pigmented resin emulsion finishes to provide color and finish in one operation will be permitted. Colorfastness - standard sample available (5614-5671).	Mesh size, initial: 0.035 in. max. in warp & filling. Mesh size, after 3 launderings & slippage test: 0.100 in. max. in warp & filling. Meshes/in.^{2}: 729-784.	Intended Use - In tentage and equipage items.
MIL-C-3953C Class 1 Class 2	Class 2 - Cloth shall be impregnated with a suitable type of melamine resin, and the finished cloth shall have a stiffness of 0.45-0.65 in. lb. in the warp and 0.45-0.65 in. lb. in the filling. pH: 5.5 - 8.5 (2811).	Color (1) - standard sample available (3). Colorfastness - standard sample available (5614-5670).	(a) Nylon shall be prepared from hexamethylene diamine & adipic acid or its derivatives. Ultimate elongation: 20% min. in the warp and 20% min. in the filling. (5100).	Intended Use - In the manufacture of parachute equipment.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			W | F	W | F	W | F		Min | Max		W | F	W | F	W | F	W | F	
Cloth, Nylon and Rayon, Spun MIL-C-4072A (USAF)										(5104)	(5136)		(5552) Preshrunk	
Type I- 4.5 oz.	Type I and II: Warp Yarn: Nylon, continuous, bright, 70 denier, 34 filament (Type 100 nylon). Filling yarn: Rayon, high tenacity, long staple viscose, direct spinning from tow.					(9) 45 ±½	4.3 -	Oxford (2 warp ends weaving as 1)	200 72	150 70	55 7	10	2% 2%	
Type II- 6.0 oz.						"	5.6 -		220 57	160 125	65 16	8	2% 2%	
Cloth; Plastic, Mesh MIL-C-4141A (USAF)										(5104)				
Type I- 12x12 mesh		Vinylidene Chloride		Continuous extruded monofilament		(1)	- 13.0	Plain 1 up 1 down	12 12	95 90				
Type II- 20x20 mesh						(1)	- 7.0		20 20	65 65				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-4072A Type I Type II	Scoured, singed, dyed & given a water repellent treatment (10). Use of dyestuffs, detergents, or other chemicals which would cause deterioration in storage or cause dermatitis on prolonged skin contact is prohibited. Finished cloth shall exhibit no mark-off characteristics. Durable water repellent treatment. Use of non-durable-type water repellents such as wax or aluminum or zirconium soaps is prohibited. Spray ratings: Initial- 90, after 3 launderings- 70, after 3 dry cleanings- 70 (5526). Hydrostatic pressure: After 3 launderings- 30, after 3 drycleanings- 35 (5514).	Color(1) - to be obtained by acid milling & selected direct or vat dyes (3). Colorfastness - standard sample available (5614-5620-5651-5660-5682).		Intended Use - In the manufacture of rainwear.
MIL-C-4141A Type I Type II		Color - Olive Drab to conform with Shade No. 3412 of Spec. TT-C-595.	Thickness: Type I- 0.040 ± 0.005 in. Type II- 0.025 ± 0.005 in.(5030). Elongation: Type I- 20% min. in W & F; Type II- 20% min. in W & F (5104). Well made splices showing no tails shall be permitted at any point of any individual filament, provided the number of splices does not exceed [illegible] in any length of 1 lin. ft. Selvage: Type I- 7/8 in. [illegible] in., with 24 ends reeded 2 ends per dent; Type II- 4 ends per dent.	Intended Use - Type I, in the manufacture of Radar tow targets. Type II, spring covering in Anti-"G" Suits.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
Cloth, Polyethylene, Leno			W | F	W | F	W | F		Min | Max		W | F	W | F	W | F		W | F	
MIL-C-4222B (AS0) Amd. 2														
Type I		Polyethylene			(a) Continuous extruded monofilament	(7) 36 or	- 7.5	3-end leno	12 11	(5104) 35 35				
Type II						72	- 11.0	(4)	12 9 (24 ends each selv.)	35 35				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-4222B Type I Type II	Use of dyestuffs, detergents, or other chemicals or finishing agents which would cause deterioration in storage is prohibited.	Color - Cloth shall be made from natural, undyed or unpigmented monofilaments unless otherwise specified by the procuring activity.	(a)Type II monofilament shall be wrapped with an aluminum foil stripping 0.03 ± 0.005 in. width & 0.0015 ± 0.0001 in. in thickness, with a min. of 20 wraps/in. of stripping around the monofilament. Elongation: 30% min. in the W; 25% min. in the F. Selvage: 11/16 in. ± 3/16 in. Tight or wavy selvages shall not be permitted. All monofilaments shall be 0.021 ± 0.002 in. in diameter (exclusive of aluminum foil). Well made splices showing a min. of tails shall be permitted at any point of any individual monofilament, provided that the number of splices shall not exceed 30 in any length of 100 yd. & that there are no more than 5 splices/100 yds. in any given monofilament.	Intended Use - In the manufacture of tow targets & equipage.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5030) W	Yarns Per In. Min. (5030) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Synthetic Fiber, Duck MIL-C-4424B (USAF)		Copolymer of vinyl chloride & acrylonitrile	7	5					(1)	20.0	-	Plain 1 up 1 down	28	16	240	100 (5104)						
Cloth, Nylon, Twill MIL-C-4294 (USAF) Amd. 4																						
Type I- 3.3 oz. (nominal weight)																						
Class A - Finished natural -		Bright nylon							40-41		3.30	(a) 2/2 right twill	170	85	120	120	7	7	15 max.	2%	1½%	
Class B - Water resistant treatment -											3.35		170	85	115	115	8	8	15 max.	2%	1½%	
Type II- 5.4 oz. (Nominal weight)																						
Class A- Finished natural -									"	-	5.40		250	72	170	160	10	10	18 max.	2%	1½%	
Class B- Water resistant treatment -									"	-	5.50		250	72	160	155	10	10	18 max.	2%	1½%	
Class C- Finished natural - heavily calendered -									"	-	5.40		250	78	150	160	7	7	10 max.	2%	1½%	
Class D- Water resistant treatment heavily calendered -									"	-	5.50		250	78	140	150	9	9	10 max.	2%	1½%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-4424B	(8) pH: 5.0 - 9.0 (2811).	Color - shall be natural undyed unless otherwise specified.	Thickness: 0.039 in. min. (5030). Stiffness: 0.300-0.750 lb. in the warp; 0.300-0.500 lb. in the filling (5202).	Intended Use - As a visor stiffening material and for use in the protector pads of Anti-"G" Suits and high altitude pressure garments.
MIL-C-4294 Type I Class A Class B Type II Class A Class B Class C Class D	All types and classes - smooth & free from winkles. Type I, Class B and Type II, Classes B and D: shall be given a durable water resistant treatment. Spray rating: Initial- 100; After 3 launderings or dry cleanings- 70 (5526). Type II, Class C and D: shall be heavily calendered. All types and classes - finish shall be a "permanent finish". pH: 6.0 - 8.0 (2810-2811). (8)	Color - Unless otherwise specified, cloth shall match standard shade Sage Green, No. 511 (3). Colorfastness - "good" (5620-5682-5670-5614).	(a)At the contractor's option, the weave of Type II cloth may be a 3-up, 1-down right hand twill. Ultimate elongation: all types and classes, both warp and filling - 20% min. (5100).	Intended Use - In the manufacture of flying clothing, as liner and exterior materials, and for cover of casualty bags.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply (W | F)	YARN: Yarns: Denier (W | F)	YARN: Yarns: Filament (W | F)	Width Inch	Weight Oz/Sq Yd (Min | Max)	Weave	Yarns Per In. Min. (5050) (W | F)	Breaking Strength Lb. Min. (5100) (W | F)	Tearing Strength Lb (5134) (W | F)	Air Permeability (5450)	Shrinkage Max. (5556) (W | F)	Point Value Max.
Cloth, Parachute, Nylon MIL-C-7020E														
Type I- 1.1 oz. rip-stop weave	250° ±6°C	(a) Polyamide				36.5 ±0.5	- 1.1	(4)	120 120	(5104) 42 42	5 5	100±20	2% 2%	
Type II- 1.6 oz. twill weave	"	"				"	- 1.6	2/1 twill	120 76	50 50	5 5	130±30	2% 2%	
Type III- 1.6 oz. rip-stop weave	"	"				"	- 1.6	(4)	120 76	50 50	4 4	130±30	2% 2%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-7020E Type I Type II Type III	(8) Type I- cloth shall be given a preliminary scour sufficient to remove sizing & other contamination at a temperature that will not cause fixation of same into cloth or result in permanent setting of the cloth. Cloth shall be dried & calendered at sufficient temperature & pressure to control air permeability. Pre-scour may be omitted & clean greige goods be subjected directly to calendering. Further wet processing of the cloth may be accomplished at a temperature in excess of 200°F in order to stabilize air permeability. Length of time required for complete setting of the cloth at this temperature shall be sufficient to shrink & set the cloth. Types II & III - above process optional. None of the types shall be bleached in any manner or process. Finish shall be permanent and stable. Finished cloth shall contain a silicone oil, evenly distributed. pH: 5.0 - 9.0 (2811).	Color- shall be natural, International Orange No. 12197, Olive Green No. 106 Sand No. 1005, conforming to a submitted standard shade (3). Colorfastness - standard sample available (5614-5620-5630-5660).	(a) Nylon shall be a bright, high tenacity, light & heat resistant polyamide prepared from hexamethylene & adipic acid or its derivatives. Yarn shall not be bleached in any manner. Thickness: Type I- 0.003 in max.; Types II & III- 0.004 in. max. (5030). Elongation, both directions; All types- 20% min. (5104). Light & heat resistance: finished cloth shall not lose more than 25% of its original strength when tested (4.4.6).	Intended Use - Primarily in the manufacture of parachutes. Also, as a base cloth for coated fabrics.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN						Width Inch	Weight Oz/Sq Yd		Weave	Yarns Per In. Min. (5050)		Breaking Strength Lb. Min. (5100)		Tearing Strength Lb (5134)		Air Permeability (5450)	Shrinkage Max. (5556)		Point Value Max.
	Fiber		Ply	Yarns																
	Melting Point	Type		Denier		Filament														
			W F	W	F	W F		Min	Max		W	F	W	F	W	F		W	F	
Cloth, Duck, Brim, Parachute Packs MIL-C-7219C																				
Type I- 9.5 oz.	290° ± 6°C	(a) Bright high tenacity nylon	(b) 2 3			(b) Multi-filament	(1)	-	9.50	Plain 1 up 1 down	80	38	(5104) 400	300	35	45	5.0	2½%	2%	
Type II- 8.75 oz.	"	(c) *	(b) 2 2			"	(1)	-	8.75	"	78	38	400	150	35	20	5.0	2½%	2%	
Type III- 7.25 oz.	"	(a) Bright high tenacity nylon	(b) 2 2			Warp: filament Filling: staple	(1)	-	7.25	"	60	45	325	275	20	20	8.0	2%	2%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-7219C Type I Type II Type III	Cloth shall not be bleached in any manner or process. Cloth shall be given a durable water resistant treatment. Spray rating: Initial- Type I- 80, 80, 80; Type II- 80, 80,70; Type III- 90, 90, 80. After 3 dry cleanings: Type I- 70; Type II- 70, 70, 70; Type III- 70, 70, 70 (5526). Hydrostatic pressure: Type I- 25; Type II- 30; Type III- 25 (5514). Blocking: unless otherwise specified, there shall be no sticking of cloth to cloth. (5872).	Color - Types I & II shall match TCA Cable No. 66022, Shade S-1 (U.S. Army Olive Drab) or Olive Drab No. 106 or TCA Cable No. 70072, Indian orange (crepe side) or Orange 70072, as specified. Type II- shall match Sage Green No. 1535 or Olive Green No. 106, as specified (3). Colorfastness - standard sample available (5614-5620-5651-5660).	(11) (a)Nylon yarn shall be a light and heat resistant polyamide prepared from hexamethylene diamine & adipic acid or its derivatives. (b)Plied yarns or a single multifilament yarn of equivalent denier may be used. (c)Warp yarn shall be bright high tenacity filament; filling shall be bright or semi-dull nylon staple of such staple length and denier to conform to the requirements listed.	Intended Use - In the manufacture of parachute packs & equipage other than parachute packs.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Nylon, Parachute, Cargo MIL-C-7350C (ASG) Amd. 1																						
Type I	250°C +6°C	(a) High tenacity nylon							$36\frac{1}{2}$ $\pm\frac{1}{2}$	-	2.25	(4)	70	70	90 (5104)	90	10	10	100-150	2%	1%	
Type II	"								"	-	3.50	(4)	52	52	135	125	30	30	150-200	2%	1%	
Cloth, Nylon, Ballistic MIL-C-7812C(AER)																						
Type I- 7.5-8.5 oz. Plain weave		Nylon	7	1	210	40	34	13	(1)	7.8	8.5	Plain	38 + 1 =	30	800	-				3%	2%	
Type II- 17-18 oz.		"	1	1	840	840	140	140	(1)	17	18	3 broken twill (3 ends weaving as 1, 3 picks in the shed)	73 + 2 =	68	900	800				2%	2%	
Type III- 12.4-12.8 oz.		"	5	5	210	210	34	34	(1)	12.4	12.8	2x2 basket	40 min.	40	580 (5102)	625				$7\frac{1}{2}$%	7%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-7350C Type I Type II	(8) Permanent finish; air permeability shall not change more than 15% & thickness shall not increase more than 10% for Type I and 15% for Type II when tested (4.3.2.2). pH: 5.0 - 9.0 (2811).	Color - natural, unless otherwise specified. When color is specified, std. sample is available (3). Colored cloth shall be dyed with acetate- or acid-type dyes. Metalized or chrome-type dyes shall not be used. Colorfastness (1), except Olive Green, Shade 106, which shall be "fair" (5660) & "good" (5651).	Ultimate elongation: 25% min. for both types, W & F (5104). Thickness: Type I- 0.0060 in. max.; Type II- 0.014 in. max. (5030). Load required to separate the seam ½ in. shall be not less than 10 psi in either the warp or filling direction (4.3.2.1).	Intended Use - In the manufacture of cargo parachute canopies.
MIL-C-7812C Type I Type II Type III	(8) Type II- cloth shall be heat set at 100 ± 1°C by passing through boiling water & allowing free relaxation to occur. After heat setting, an acrylic resin, Rohm and Haas Rhoplex E-21 or equivalent, shall be applied to one side of the cloth. Resin applied shall not be less than 3% nor more than 5% of the weight of the heat set cloth. Types I & III: No starch, resin or other stiffening ingredient shall be present in the finished cloth.	Color - color of the finished cloth shall be natural.	Thickness: Type I- 0.028-0.032 in.; Type II- 0.035-0.039 in.; Type III- none specified. Elongation: Type I- 20-30% in both W & F; Type II- 20-40% in both W & F; Type III- 25% min. in the warp and 20% min. in the filling.	Intended Use - In the manufacture of flak protective vests and curtains used in aircraft, and fragmentation protective body armor worn by Marine Corps personnel.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			W | F	W | F	W | F		Min | Max		W | F	W | F	W | F		W | F	
Cloth, Nylon, Twill MIL-C-7978 (ANA)		Bright Nylon	1 2	210 210	3¼ 3¼		- 6.2	2 right / 1 twill	60 45	350 400	25 35			
Cloth, Parachute, Nylon, Cargo and Deceleration MIL-C-8021C														
Type I- 4.75 oz. max.	250°C min.	(a) Nylon	1 1			36½ ±½	- 4.75	2/2 twill	70 70	(5104) 200 200	15 15	50-90 450-650	2% 2%	
Type II- 7 oz. max.	"	"	2 2			"	- 7.00	(4)	53 48	300 300	20 20	50-90 450-650	2% 2%	
Type IIA- 10.5 oz. max.	"	"	4 4			"	- 10.50	(4)	40 38	500 500	75 75	50-90 650-750	2% 2%	
Type III- 14 oz. max.	"	"	1 1			"	- 14.00	(4)	38 38	600 600	75 75	15-55 250-450	2% 2%	

Class 1- Air Permeability at ½ in. water pressure.
Class 2- Air Permeability at 20 in. water pressure.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-7978	Natural finish (greige state).			Intended Use - In the manufacture of sea anchors for patrol type aircraft.
MIL-C-8021C Type I Type II Type IIA Type III Class 1 Class 2	(8) Permanence of finish to be tested (4.2.4.1). Cloth thickness after testing shall not be more than 10% more than the thickness before testing. The average of the air permeability readings taken after testing shall be within ±15% of the average of the readings taken before testing. Cloth shall not be bleached in any manner or process. pH: 5.0 - 9.0.	Color - unless otherwise specified, color shall be natural. Standard sample available(3) for dyed cloths. Colorfastness - standard sample available for dyed cloths (5614-5620-5660).	(a)Nylon shall be a bright high tenacity, light & heat resistant, polyamide prepared from hexamethylene diamine & adipic acid or its derivatives. Yarn shall not be bleached in any manner or process. Elongation: Types I, II, & III- 25% min. in both W & F. Type IIA- 35% min in both W & F (5104). Cloth for fabricating new parachutes shall not be more than 2 yrs. old from the date of manufacture to the date of delivery. Age of cloth for repair & maintenance of parachutes shall be as specified by procuring activity.	Intended Use - In the manufacture of cargo & deceleration parachutes.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply: W	YARN: Ply: F	YARN: Yarns: Denier: W	YARN: Yarns: Denier: F	YARN: Yarns: Filament: W	YARN: Yarns: Filament: F	Width inch	Weight Oz/Sq Yd: Min	Weight Oz/Sq Yd: Max	Weave	Yarns Per In. Min. (5050): W	Yarns Per In. Min. (5050): F	Breaking Strength Lb Min. (5100): W	Breaking Strength Lb Min. (5100): F	Tearing Strength Lb (5134): W	Tearing Strength Lb (5134): F	Air Permeability (5450)	Shrinkage Max. (5556): W	Shrinkage Max. (5556): F	Point Value Max.
Cloth, Nylon, Dobby MIL-C-8321 (USAF)		Bright nylon					Continuous		(1)	3.25	±.25	(4)	175	85	160 (5104)	125	10	7	50	2%	1½%	

Cloth, Glass, Finished, For Polyester Resin Laminates MIL-C-9084B, Amd. 1 (ASG)												Thickness (in)	Flexural Strength After Lamination (thousands of psi) Standard	Flexural Strength After Lamination (thousands of psi) Wet
Type I- 112	Glass yarns	1/	2	450	Continuous	(1)	1.76	2.20	Plain (a)	39	38	0.003 - 0.005	50	45
Type II- 116		1/	2	450		(1)	2.68	3.35	"	59	57	0.004 - 0.006	45	40
Type III- 120		1/	2	450		(1)	2.68	3.35	Crowfoot	59	57	0.004 - 0.006	50	45
Type IV- 128		1/	3	225		(1)	5.08	6.35	Plain	41	31	0.007 - 0.009	45	39
Type IVA- 128-150		1/	2	150		(1)	5.08	6.35	"	41	31	0.007 - 0.009	45	39
Type V- 143		3/2	1/2	225 450		(1)	7.88	9.85	Crowfoot	48	29	0.008 - 0.012	90	78
Type VA- 143-150		2/2	1/0	150 225		(1)	7.88	9.85	"	48	29	0.008 - 0.012	90	78
Type VI- 162		2/	5	225		(1)	10.24	12.80	Plain	27	15	0.015 - 0.019	35	30
Type VII- 164		4/	3	225		(1)	10.92	13.65	"	19	17	0.014 - 0.017	35	30
Type VIIA- 164-150		4/	2	150		(1)	10.92	13.65	"	19	17	0.014 - 0.017	35	30
Type VIII- 181		1/	3	225		(1)	8.00	10.00	Satin	56	53	0.008 - 0.012	50	45
Type VIIIA- 181-150		1/	2	150		(1)	8.00	10.00	"	56	53	0.008 - 0.012	50	45
Type IX- 182		2/	2	225		(1)	11.20	14.00	"	59	55	0.012 - 0.015	50	45
Type IXA- 182-150		1/	3	150		(1)	12.40	15.50	"	59	55	0.013 - 0.016	50	45
Type X- 183		3/	2	225		(1)	14.40	18.00	"	53	47	0.018 - 0.022	45	40
Type XI- 184		4/	3	225		(1)	21.76	27.20	"	41	35	0.026 - 0.032	45	40
Type XIA- 184-150		4/	2	150		(1)	21.76	27.20	"	41	35	0.026 - 0.032	45	40

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-8321	(8) Use of dyestuffs, detergents, or other chemicals or finishing agents which would cause deterioration in storage or cause dermatitis on prolonged intimate skin contact is prohibited. pH: 5.0 - 9.0 (2811).	Color (1). Colorfastness - "good" (5614-5620-5660-5682).	Ultimate elongation: 25% min. in both directions (5104).	Intended Use - In the construction of flying clothing.
MIL-C-9084B Type I, Type II, Type III, Type IV, Type IVA, Type V, Type VA, Type VI, Type VII, Type VIIA, Type VIII, Type VIIA, Type IX, Type IXA, Type X, Type XI, Type XIA	Cloth shall be cleaned & shall then be treated with a finish which will produce the characteristics required by finished glass cloth in this specification, including the required performance characteristics when tested with the applicable laminating resin.	Color - the color of the finished cloth shall be uniform and shall be characteristic of the applied finish.	(a) See specification for weave description & diagrams.	Intended Use - In fabricating polyester resin laminates for structural parts, radio & radar antenna housings, & other applications. They are specifically intended for use in fabricating laminates conforming to Spec. MIL-P-8013 and plastic sandwich materials conforming to Spec. MIL-S-9041.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			W F	W F	W F		Min Max		W F	W F	W F		W F	
~~Scarf, Neckwear, Female, Women's~~ ~~MIL-S-10679C~~														
Class 1- Tan 125 Class 2- White 3030		Both Classes: Warp: continuous filament, 100 denier dull acetate, 25-40 filaments. Filling: continuous filament, 100 denier dull rayon, 25-60 filaments.					3.0 -	Plain	150 70	45 25				
Cloth, Acetate, (Saponified), Rip-Stop MIL-C-10772A Amd. 3		Saponified oriented cellulose ester	60 60	80 80		(9) 36	1.8 -	Plain (double end every 20th end, double pick every 18th pick)	126 106	95 80			3% 1%	
Cloth, Rayon MIL-C-11460 (ORD) Amd. 1		(a) Viscose rayon				(1) 36 min.	5.0 5.75		70- 70- 200 140			50 ± 15		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-S-10679C Class 1 Class 2		Color - Class 1: tan 125 Class 2: White, Navy color 3030 (6). Standard samples available (3). Colorfastness - standard sample available (5651-5614-5680-5682).		Intended Use - Scarf for use by female personnel of the Army (tan) and the Navy (white).
MIL-C-10772A	Natural finish (10).	Color - to match an approved standard shade of Olive Green 106, obtained by pigmentation of the cellulose acetate solution prior to the spinning of the yarn. The pigmentation shall consist of carbon black & appropriate organic color pigment (3). Colorfastness - standard sample available (5660-5651-5614-5622-5682).	(11)	Intended Use - In the manufacture of various types of cold climate clothing.
MIL-C-11460	Cloth shall be uniform and have no visible imperfections.(8). Acidity or alkalinity: Mineral-none; Organic- 0.10% max.	Color - natural unbleached or bleached white.	(a)The rayon shall contain no acetyl groups & not more than 0.2% sulfur.	Intended Use - For liners for recoilless cartridge cases.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Fabric, Glass, Woven MIL-F-12298A (MU)																						
Type I- Lightweight		(a) Fibrous "E" glass	2	2			Continuous		(1) ±1	5.37	±10%	Plain	34 ± 2	32	110	90						
Type II- Medium wgt.		"	3	3			"		"	8.90	±10%	8-harness	57 ± 2	54	145	130						
Type III-Heavy wgt.		"	2	2			"		"	16.75	±10%	satin	54 ± 2	48	270	250						
Cloth, Ballistic, Nylon MIL-C-12369D (GL)	250°C ±6°C	(a) Bright high tenacity nylon			1050	1050	Multi-filament		48-49	14.0 +1.0 -0.5		2/2 basket (2 ends weaving as 1, 2 picks weaving as 1)	46	42	900	825				3%	2%	Undyed Natural 22.0 Lyed 18.0

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-F-12298A Type I Type II Type III	The amount of finish on the cloth, as measured by the chrome level, shall be not less than 0.03% nor more than 0.06%.		(a)Glass yarns shall be woven to conform to the weave requirements, heat-cleaned, and then finished with a methacrylato chromic chloride finish.	Intended Use - For use with phenolic resins in preparing Belleville springs for non-metallic mines.
MIL-C-12369D	Cloth shall be scoured & heat-treated and shall be processed to meet the ballistics resistance requirements of this specification. pH: 5.0 - 8.5 (2811) (10).	Color (1) - Unless otherwise specified, cloth shall be undyed (natural). Standard sample available for colors (3), which shall be obtained by piece dyeing using neutral premetallized dyes applied at a pH value consistent with the highest temperature possible for the apparatus used. Colorfastness - standard sample available (5660).	(11) (a)Nylon shall be prepared from hexamethylene diamine and adipic acid or its derivatives. Ultimate elongation: 25% in the warp; 20% in the filling (5100). The ballistic limit V_{50} for 12 layers of unbonded cloth shall be not less than 1225 ft/sec (4.4.1).	Intended Use - In the manufacture of body armor, helmets, and armored clothing.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			W | F	W | F	W | F		Min | Max		W | F	W | F	W | F		W | F	
Cloth, Acrylic (For Cartridge Bags) MIL-C-12800 (ORD) Amd. 1		(a) Acrylic				(1)	2.3 2.7	Plain, single	50 50	40 40				
Cloth, Cartridge, High Tenacity Direct Spun Viscose Rayon MIL-C-13540 (ORD)		(a) High tenacity viscose rayon				(1)	2.8 3.2	Plain, single	60-65 60-65	50 50				
Labels, Garment (Woven, Rayon) MIL-L-15040E														
Size A- 1-5/16x3" Size B- 3/4 x 2" Size C- 2-1/4 x 4" Size D- 2-1/4 x 5"		Regenerated cellulose (Viscose or Cuprammonium) Rayon	Ground warp: 100 denier singles or 50 denier, 2 ply; 144 ends per in. min. Ground filling: 75 denier singles, 92 pickes per in. min. Figure filling: 150 denier singles, 92 picks per in. min.					Taffeta and figured						

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-12800	(8-10) Cloth shall pass the objectionable sizing test (4.15). Cloth shall be boiled off or scoured to remove sizing materials.		(a)Yarns shall be spun from acrylonitrile polymer fibers or copolymers of acrylonitrile containing no halogens such as chlorides, bromides, fluorides, or iodides. Slippage: 70% min. in warp and filling (5100). Stretch: 10% max. in the warp and filling.	Intended Use - In the manufacture of cartridge bags for ammunition for 75mm. & 105mm. Howitzers. Not for use with propellants containing nitroguanidine.
MIL-C-13540	(8) The cloth shall pass the objectionable sizing test (4.14). pH: 5.5 - 7.7 (2-11).		(a)The warp yarns only shall be sized with gelatin applied from an aqueous bath not to exceed 165°F, containing 3% (by weight of bath) of an undegraded gelatin and 0.25% (by weight of bath) of paranitrophenol. Slippage: warp- 135 min.; filling- 125 min. (5100). Stretch: 8.5% max. in both warp and filling (4.8).	Intended Use - In manufacturing cartridge bags for artillery propelling charges.
MIL-L-15040E Size A Size B Size C Size D		Color - background & selvages shall be Shade Black 211 & the design & legend shall be white to match the standard sample (3-[illegible]). Design & legend (1). Colorfastness - standard sample available (5622-56[illegible]).	Selvages: Sizes A & B 100 denier singles or 50 denier 2 ply; [illegible] double ends each selvage. Sizes C & D- 1[illegible] denier singles or 50 denier, [illegible] ply; 12 double ends each selvage.	Intended Use - In [illegible] will be permanently [illegible] the [illegible] the appearance [illegible].

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Parachute, 240-Permeability; For Use with Under-Water Ordnance MIL-C-17208A (BuOrd) Amd. 1																						
Type I- Nylon															(5104)							
Class A- 4.0 oz.		High					Multi-		40-	-	4.0		64	64	200	200	25	25	240	2%	1%	
Class B- 8.0 oz.		tenacity					fila-		41		8.0		64	64	400	400	50	50	±30	2%	1%	
Class C- 10.0 oz.		nylon					ment				10.0		80	80	480	480	60	60		2%	1%	
Type II- Saponified Acetate																						
Class A- 4.0 oz.		Saponified					Contin-		40-	-	4.0		-	-	175	175	25	25	240	2%	1%	
Class B- 8.0 oz.		oriented					uous		41		8.0		44	44	330	330	50	50	±30	2%	1%	
Class C- 10.0 oz.		cellulose					multi-				10.0		54	54	400	400	60	60		2%	1%	
		acetate					filament															
Cloth, Saran, Utility Bag MIL-C-18449A (NAVY)		10 mil pigmented polyvinylidene chloride					Mono-filament		54 +1¼ -¼	11.5	13.0	(a) 4/4 double end skip twill (4)	67	48	(b) 155	140						

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-17208A Type I Class A Class B Class C Type II Class A Class B Class C	Smooth and even, containing no sizing lubricating, or weighting materials. Thickness shall not increase more than 10% after testing (4.4.1). pH: 4.5 - 8.5 (2810).	Color - when color is not specified in procurement document, no coloring matter of any sort shall be added to cloth or yarn. Camouflaging (1) - std. samples or instructions. Colorfastness (5632).	Elongation: Class A, Type I- 25% min. in both directions. Type I, Classes B & C- 30% min. in both directions. Type II, Classes A, B, & C- 10% min. in both directions.	
MIL-C-18449A	Flame resistant treated - Ave. length of flame- 3 sec. max. Ave. length of char- 4.5 in. max. (5903T).	Color - Green 3428 - std. sample available (3). Colorfastness - standard sample available (5651-5660). (a)Warp: 4 ends of green & 4 ends of white with double ends of each color weaving as one. Filling: all natural color.	(11) (b)Breaking strength after heat aging- 145 lb. min. in the warp; 130 lb. min. in the filling.	Intended Use - In the manufacture of fire-resistant utility bags primarily intended for personal bunk storage in surface ships and submarines.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			W | F		W | F		Min | Max		W | F	W | F	W | F		W | F	
Cloth, Twill, Nylon (Low Count, 3.5-Ounce)														
MIL-C-19256B (SA)	244°C min.	Bright luster nylon		210 21[illegible]	[illegible]0 30 min.	(1)	3.4 3.6	3-harness 2/1 right twill	56 56	225 210			2% 2%	20.00
Cloth, Parachute (For Ring-Slot Type Parachutes Used in Underwater Ordnance) MIL-C-19262 (Ord) Amd. 2														
Type I- Nylon														
Class A- 5.0 oz.		High tenacity nylon			Multi-filament	40-48	5.0	(4)		350 130	45 20	60±15	2% 1%	
Class B- 8.0 oz.							8.0			560 210	70 30	60±15	2% 1%	
Class C- 10.0 oz.							10.0			625 425	75 60	80±20	2% 1%	
Type II- Saponified Acetate														
Class A- 5.0 oz.		Saponified oriented cellulose acetate			Continuous multi-filament	40-48	5.0	(4)		250 160	35 25	60±15	2% 1%	
Class B- 8.0 oz.							8.0			400 260	55 44	60±15	2% 1%	
Class C- 10.0 oz.							10.0			500 330	70 55	80±20	2% 1%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-19256B	(8) Natural finish; not calendered. 0.003% copper max.; 0.0015% manganese max. Cloth shall be fully heat set at 400°F. Cloth shall show no appreciable distortion or puckering, and not more than 2% dimensional change. pH: 6.0 - 10.0 (2811).	Color - cloth shall be Green 3410 - std. sample available (3). Colorfastness - standard sample available (5614-5622-5651-5680-5660).	(11) Selvage: each selvage shall not exceed $\frac{1}{4}$ in. Flex-stiffness: 2.5 in. lb. x 10^{-4} max. in the warp; 1.8 in. lb. in the filling.	Intended Use - As a base material for synthetic rubber coating.
MIL-C-19262 Type I Class A Class B Class C Type II Class A Class B Class C	Smooth and even, containing no sizing, lubricating, or weighting materials. pH: 4.5 - 8.5 (2810). Increase in thickness - 10% max. (4.4.1).	Color - when no color is specified in procurement document, no coloring matter of any sort shall be added to cloth or yarn. Camouflaging (1)-samples or instructions (1). Colorfastness - "good" (5632).	(11) All tape-selvage edges of the cloth shall be constrained by 1 pair (min.) of leno locked ends (4), each leno end to be of the same denier as the body of the cloth. Selvage width: Classes A & B: 1[illegible] ± 1/8 in; Class C: 1-1/8 ± 1/8 in. Total ribbon width (Body + 2 selvages: Classes A & B: 13 ±[illegible]; Class C: 11 ±[illegible]. Width, separation: All classes - [illegible] ± 1/8. Elongation: Type I, Class A: 25% min. in both directions; Classes B & C: [illegible] min. in both directions, Type II, All Classes: 10% min. in both directions.	

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Nylon, Twill, Inflatable Life Preserver MIL-C-19377A (NAVY) Amd. 1		Bright high tenacity nylon			70	100	34	34	(1) selvage: ½ in.max.	3.0	3.3	2/2 right twill	165	96	(5100) 180 (5104) 160 method (1)	170 (5100) 140	10	10		2%	2%	

NOMENCLATURE	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (7) W	Yarns Per In. Min. (7) F	Flexural Strength of Laminate length, face	Flexural Strength of Laminate cross, face	Tensile Strength of Laminate length	Tensile Strength of Laminate cross
Cloth, Glass, Woven Roving, For Plastic Laminate MIL-C-19663B (NAVY)									
Style 605-308 (ECC G-135-60-5-30-8)	Continuous	(1) 24 nominal (7)	Plain (4)	300	240	60,000 psi	50,000 psi	38,000	30,000
Style 605-406 (ECC G-135-60-5-40-6)				300	240	60,000	50,000	38,000	30,000
Style 605-604 (ECC G-135-60-5-60-4)				300	240	60,000	50,000	38,000	30,000
Style 345-178 (ECC K-75-34 5-17-8)				170	136	60,000	50,000	38,000	30,000

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-19377A	(8) Natural finish: may be calendered. Copper content: 0.005% max. Manganese Content: 0.001% max. Cloth shall contain no skin irritants. Heat set (1). pH: 6.0 - 8.0 (2810 or 2811).	Color (1) - standard samples available. Colorfastness - "good" (5614-5620-5651-5660-5680).	(11) During preparation of the warp, care should be taken not to abrade the yarn. Smooth eyelets & burnished heddles should be used. Breaking strength after 96 hours accelerated aging at 70 ±1°C. 145 in the warp; 130 in the fill (5104), 160 in the warp; 155 in the fill (5100).	
MIL-C-19663B Style 605-308 Style 605-406 Style 605-604 Style 345-178	Finished cloth shall be free of oil spots, grease spots, and other contamination, creases, wrinkles, and other forms of permanent distortion, and shall not be brittle or fused. Cloth shall have drapability characteristics suitable for the use intended and sufficient flexibility to withstand normal handling. Period of time for the resin wet-out shall be 15 min. max.	Color - characteristic of clean natural finished glass cloth.	Nominal average thickness for all styles: 0.045 in. Wet flexural strength after conditioning (4.4., 3.1.2.2 or 4.4.3.1.2.3) shall not be less than 80% of the dry flexural strength test value.	Intended Use - In laminated plastics for structural or semi-structural parts.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			W | F	W | F	W | F		Min | Max		W | F	W | F	W | F	W | F	
Cloth, Glass; Tape, Textile, Glass; and Thread, Glass MIL-C-20079C, Amd. 1 (See also under Narrow Fabrics)														
Type I- Cloth Class 1- Satin weave, lightweight		Fibrous glass			Continuous	(1)	9.43 (untreated) 10.80 (treated)	8-harness satin	56 ±2 54 ±2	200 180 (initial) 60 60 (after heating to 900°F.)				
Class 2- Satin weave, heavyweight		Fibrous glass			Continuous	(1)	13.25 (untreated) 14.76 (treated).	4-harness (crowfoot) satin	48 ±2 32 ±2	300 225 (initial) 70 70 (after heating to 900°F.)				
Type II- Tape (See under Narrow Fabrics)														
Cloth, Cartridge, Rayon MIL-C-20300		Viscose Rayon (no acetyl groups)	275 275 or any other suitable	120 12:	(1)	-	12.5	Plain or other		300 300		Maximum Stretch 12.5% 12.5%		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-20079C Type I Class 1 Class 2 Type II	Cloth shall be treated with suitable synthetic resin.			Intended Use - As a lagging material or jacket over thermal insulation.
MIL-C-20300	(8-10)		When loads equal to 35% of the breaking strength in one direction & 50% in the other direction are applied to the seams as directed (F-4d), the slippage of the yarn shall not exceed 0.25 in.	Intended Use - In the assembly of charges of propellant powder . c cannon.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Nylon Raft Bottom MIL-C-21108A (WEP)																						
Type I- Nylon, 2.5 oz. rip-stop twill, uncoated		Nylon 66 (polyhexamethylene adipamide)							(1)	2.4	2.7	Plain (4 rip stops/in. 2 ends weaving as 1)	80	80	115	115	8	8				
Type II- Nylon 5.5 oz., plain weave, uncoated		"							(1)	5.5	0.5	Plain	22	22	225	225	45	38				
Cloth, Nylon, Ribbed, Aircraft Upholstery MIL-C-21318A (AER)		Nylon polyamide (polyhexamethylene adipamide)							(1)	9.0	11.0	Rib weave (4)	88	36	350	225	20	30		3%	2%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-21108A Type I Type II			Thickness: Type II - 0.015 in, max.	Intended Use - For coating with a natural rubber compound for use in the manufacture of raft bottoms & associated items. Type I is used to make raft bottom cloth for one-man life rafts. Type II is used to make raft bottom cloth for multi-place life rafts.
MIL-C-21318A	Cloth shall be finished without the addition of materials that will increase the flammability of the cloth.	Color - to match TCA Cable No. 70072 (crepe side), Indian Orange, or TCA Cable No. 70153 (crepe side), Steel Grey (1). Cloth shall be dyed with acetate or acid dyes. Metallized or chrome dyes shall not be used. Yarn or piece dyeing is acceptable. Colorfastness "good" (5614-5660).	Thickness: 0.036 in. min. Flame resistance: Ave. length of char- 5.5 in. max. in the warp (5902).	Intended Use - In the fabrication of aircraft upholstery.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Nylon, Plain Weave, 1.2 Ounce MIL-C-21482 (AER) Amd. 1		High tenacity nylon			40	70	13	34	(1)	1.1	1.3	Plain 1/1	117	52	(5104) 50	50				2%	1½%	
Cloth, Modacrylic, Poplin MIL-C-21841 (SAA)		(a) Copolymer of acrylonitrile & vinyl chloride	2	2					(5) 38 min.	6.0±0.5		Plain	85	48	185	85			20	2%	2%	
Cloth, Plain Weave, Polyester and Rayon MIL-C-21844A (SAA)		55(±3)% polyester 45(±3)% rayon	1	1					(9) 60	4.2	4.9	Plain	70	56	90	70			135	2½%	2½%	30.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-21482	(8) Natural finish; not calendered. Copper content: 0.005% max. Manganese content: 0.001% max. pH: 6.0 - 10.0 (2811).	Color - Unless otherwise specified, color shall be natural.	Selvages shall be ¼" max.	Intended Use - As a base cloth for coated cloth tape to be used in the repair & construction of airship envelopes.
MIL-C-21841	Boiled off & finished to produce a cloth of maximum tightness. Heat stabilized to provide minimum shrinkage in laundering & tumbler drying. Treated with an organic resinous durable water repellent compound. Spray rating: Initial- 100; After 4 accelerated launderings- 70 (5526).	Color - natural.	Selvages shall be ¼ in. (±1/16) on each side. (a) Material shall be 40 (±2)% acrylic & 60 (±2)% vinyl chloride. The filling shall be spun from high shrink staple. Flex stiffness: 8.0 in. lb. x 10^{-4} max. in both warp & filling. (11)	Intended Use - In the fabrication of permeable peroxide fuel handlers clothing.
MIL-C-21844A	(8)	Color - shall be Blue 3330- std. sample available (3). Polyester component may be dyed using disperse, disperse-developed or azo dyes. Rayon component may be pigmented prior to spinning or may be dyed. (6) Colorfastness - standard sample available (5614-5680-5651).	(11)	Intended Use - In submarine coveralls worn by male Navy personnel.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			W F	W F	W F		Min Max		W F	W F	W F		W F	
Cloth, Nylon, Taffeta (2.0 Ounce) MIL-C-21852 (S&A)	244°C. min.	semi-dull Nylon		70 70	Continuous	(1)	2.0 2.3	Taffeta (plain)	106 92	110 95	1650 1350 grams (5132)		2% 2%	
Cloth, Bunting, Acrylic MIL-C-22775A		(a) semi-dull acrylic	2 2	3 3		(1)	4.9 -	Plain	30 30	95 100		250	4% 3%	35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-21852	(8) Natural finish; not calendered. Copper content: 0.001% max. Manganese content: 0.005% max. Heat set at 400°F min. No appreciable change in color, distortion, or puckering; 2% max. dimensional change in either warp or filling (4.4.3).	Color - Green 3406 - standard sample available (3). Colorfastness - standard sample available (5614-5651-5680-5620-5660).	(11) Flex stiffness: 1.5 in. lb. x 10^{-4} in the warp; 0.5 in. lb. x 10^{-4} in the filling.	Intended Use - With or without coating, for special purpose clothing worn by Navy personnel.
MIL-C-22775A	(8-10) Natural finish, equal to the standard sample.	Color (1) - to match std. shades (3). Colorfastness - standard sample available (5651-5610-5670-AATCC/106-1962).	(11) (a) 2 in. min. staple length. Selvage shall be $\frac{1}{4}$ (±1/16) in. Fiber shall be capable of being dyed with basic dyestuffs.	Intended Use - Primarily in the manufacture of signal flags.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per in. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			W | F	W | F	W | F		Min | Max		W | F	W | F	W | F		W | F	
Cloth, Synthetic, Twill, Melt Resistant MIL-C-23882 (WAF) Amd. 1														
Type I- 3.0 oz.		High strength aromatic polyamide melt-resistant		100 100 nominal	50 50 nominal	(1)	3.0 -	2/2 right twill	108 106	(5104) 130 110	12 12	20-40	(5552) 2% 2%	
Type II- 4.0 oz.				200 200 nominal	100 100 nominal	(1)	4.0 -		74 72	170 150	24 24	40-60	2% 2%	
Cloth, Nylon, Marquisette, Parachute MIL-C-26643 (USAF)	250°C ± 6°C	(a) Polyamide		70 70	34 34	(1)	- 0.9	4 and lano (4) repeating on 2 picks	52 34	(5104) 35 25	3 3	1600-1750	1½% 1½%	
Cloth, Parachute, Nylon, Aromatic, Nonmelting MIL-C-38351 (USAF)														
Type I		(a)						2/2 right					Thickness (in. max.)	
Class 1- 4.7 oz.		Nonmelting aromatic polyamide	1	1	200 ±15 200 ±15	(1)	- 4.7	2/2 twill	74 74	190 190	14 14	40-70	0.011	20.00
Class 2- 6.5 oz.			2	2	" "	(1)	- 6.5	(4)	53 48	265 265	20 20	50-80	0.022	20.00
Class 3- 12.0 oz.			5	5	" "	(1)	- 12.0	(4)	38 38	425 425	75 75	40-80	0.032	20.00
Type II														
Class 1- 7.0 oz.			2	2	" "	(1)	- 7.0	Plain (1/1)	60 45	285 245	20 20	8 max.	0.015	20.00
Class 2- 18.0 oz. resin treated			5	5	" "	(1)	- 18.0	3/4 basket	59 60	(5100) 950 950			0.036	20.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-23882 Type I Type II	(8) Cloth shall be given a scour sufficient to remove sizing & other contaminates without permanently setting the cloth. Cloth shall then be dried.	Color - Shall be orange or olive green (1). Color shall be obtained by the utilization of solution-dyed yarns. Colorfastness - "good" (5614).	Seam efficiency: 75% min. (5110). Stiffness: 0.010 lbs. max. in W & F (5202). Flame resistance: Flame time- 0 sec. max. Glow-time- 10 sec. max. Ave. length of char- 4 in. max. (5903). Melt drop- no melting. Resistance to abrasion: 11,000 cycles to failure, min. (5308).	Intended Use - In the fabrication of lightweight flight clothing.
MIL-C-26643	Finished with a resin treatment to impart firmness. Permanent finish: air permeability shall not change more than 10%; thickness shall not change more than 10%. pH: 5.0 - 9.0 (2811).	Color - shall be natural.	(a)Yarn shall be prepared from hexamethylene diamine and adipic acid or its derivatives. Thickness: 0.0062 in. max.	Intended Use - In the vanes & cones of pilot parachutes. Also intended for future application in canopy inversion barrier.
MIL-C-38351 Type I Class 1 Class 2 Class 3 Type II Class 1 Class 2	Type II, Class 2: Cloth shall be impregnated with resin, so that the finished cloth shall have a stiffness of 0.45-0.65 in. lb. in the warp & of 0.65-0.85 in. lb. in the filling (5202). pH: 5.0 - 9.0 (2811).	Color - shall be natural.	(a)Yarn shall not carbonize at a temperature below 800°F (4.4.3). Ultimate elongation: Type I, Class 1- 30% min.; Class 2- 25% min.; Class 3- 15% min.; Type II, Class 1- 40% min. in the warp & 30% min. in the filling (5104).	Intended Use - In the manufacture of parachute canopies, packs, and pack stiffeners.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
Cloth, Acrylic-Rayon (For Cartridge Bags) ~~MIL-C-40070 (ORD)~~			W | F	W | F	W | F		Min | Max		W | F	W | F	W | F		W | F	
Class 1- Breaking Strength: 60 lb.		(a) Acrylic-viscose rayon				(1)	4.75 5.25	Plain-single (1 end/dent)	35 35	60 60				
Class 2- Breaking Strength: 80 lb.						(1)	5.75 6.25	2/1 twill	34 34	80 80				
Class 3- Breaking Strength: 125 lb.						(1)	8.75 9.25	2/1 twill	45 45	125 125				
Class 4- Breaking Strength: 170 lb.						(1)	11.0 11.5	2/2 basket	48 48	170 170				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-40070 Class 1 Class 2 Class 3 Class 4	(8) Cloth shall be finished with a starch size. Finished cloth shall not contain more than 10% starch (4.3.2.1.2). Acidity: 0.1% max. Alkalinity: 0.1% max. (4.3.2.4). Cloth shall contain no halogens (4.3.2.5). pH: 5.0 - 9.0 (4.3.2.2).		(11) (a)Acrylic fiber content shall be 50-60% (4.3.2.1.3). Slippage value: all classes- 60 min. (5100). Stretch: all classes- 10% max. (5100).	Intended Use - In the manufacture of cartridge bags for artillery ammunition. Cloth is not for use with propellents containing nitroguanidine.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Gabardine, Polyester and Rayon MIL-C-41820B																						
Type I- 6.0 oz. (bleached white)		(a) Polyethylene glycol terephthalate & rayon staple	2	2					(1)	6.0	-	2/1 right twill	110	52	210	90				2½%	1½%	40.00
Type II- 6.4 oz. (Dyed)			2	2					(1)	6.4	-		110	6[illegible]	210	105				2½%	1½%	35.00
Type III- 8.0 oz. (Bleached white or dyed)			2	2					(1)	8.0	-		92	42	280	120				2½%	1½%	white- 40.00 dyed- 35.00

Class 1- Bleached white
Class 2- Dyed

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specificati[illegible] [illegible]equirements)
MIL-C-41820B Type I Type II Type III Class 1 Class 2	(8) Types I & III cloth shall be scoured, heat set & bleached or dyed, to provide a finish equal to that of the standard sample. Type II, Class 2 shall be scoured, heat set, dyed & resin treated at a time & temperature that will insure adequate curing of the resin. pH: 6.0 - 8.0 (2811).	Color - Types I & III, Class 1 cloth shall be bleached white - std. sample available. Color shall be obtained with a chemical bleach, preferably hydrogen peroxide or peroxygen chemicals. Chemical bleach may be supplemented with a blue-violet fluorescing brightener. Types II & III, Class 2 cloth shall be dyed - std. sample available (3). Rayon component may be pigmented prior to spinning or may be dyed using fast organic dyes (6). Colorfastness - standard sample available. Type I & Type III, Class 1, no discoloration in light (4.4). Type II and Type III, Class 2 (5660-5614-5680-5651).	(a)Use of optically brightened polyester fiber is permitted for Type I & Type III, Class 1. Unless otherwise specified, the use of optically brightened fiber for Type II & Type III, Class 2 is prohibited. Polyester fiber content: 65-75%. Seam efficiency: 85% min. (5110).	Intended Use - In the manufacture of clothing items.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN					Width Inch	Weight Oz/ Sq Yd		Weave	Yarns Per In. Min. (5050)		Breaking Strength Lb. Min. (5100)		Tearing Strength Lb (5134)		Air Permeability (5450)	Shrinkage Max. (5556)		Point Value Max.
	Fiber		Ply	Yarns															
	Melting Point	Type		Denier	Filament														
			W F	W F	W F		Min	Max		W	F	W	F	W	F		W	F	
Cloth, Plain Weave, Nylon: Water Repellent OO-106 MIL-C-43128A		Bright high tenacity nylon		210 ±5%	210 ±5%	Multi-filament	(1)	3.8	4.8	Plain	80	56	275	225			2.0	3%	2%	40.00
Cloth, Spacer (Treated) MIL-C-43204		Polyethylene		Diameter 0.010 ± 0.001			(9) 60 min.	9.5	11.5	(4)	20 (W 1) 19 (W 2)		110	200						
		Polypropylene		0.010 ± 0.001							27 (W 3) 70 (F)									

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-43128A	(8) Scoured, heat treated & calendered. Water repellent treatment of aluminum salts of saturated carboxylic acid (such as formate, acetate, palmitate, or stearate), zirconium salts of such saturated carboxilic acids, or a combination of both, mixed with refined vegetable and mineral waxes, titanate esters, or a combination of both. The product shall be applied either in the form of an aqueous emulsion or in the form of a water free solvent solution to effect the deposit of not more than 6% on the weight of the finished cloth. Spray rating: 90, 90, 80 (5526). pH: 5.5 - 8.5 (2811).	Color - of the dyed & finished cloth shall be OO-106 and shall match the standard sample (3). Colorfastness - standard sample available (5671-5614).	(11) Stiffness: 0.005 lb. max. in the warp; 0.004 lb. max. in the filling (5202). Seam efficiency: 85% min. (5110).	Intended Use - In the rucksack (Lightweight), the jungle hammock and the carrying case for the collapsible canteen.
MIL-C-43204	(8)	Color - (1).	(11-12). Thickness: Initial 0.2 min., Compressed, 0.075 min., After Comp, 0.18 min. Dimensional stability. Change Max. W- 4%, F- 2%.	Intended Use- Spacer fabric in equipage items.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd		Weave	Yarns Per In. Min. (5050)		Breaking Strength Lb. Min. (5100)		Tearing Strength Lb (5134)		Air Permeability (5450)	Shrinkage Max. (5556)		Point Value Max.
			W | F	W | F	W | F		Min	Max		W	F	W	F	W	F		W	F	
Cloth, Cartridge, Polyester-Viscose Rayon (For Cartridge Bags) MIL-C-43153 (MU)																			
Class 1 - Breaking Strength: 90 lb.		Polyester-viscose rayon (Polyethylene-terephthalate & viscose rayon blend)				(1)	4.75	5.25	Plain-single	35	35	90	90						
Class 2 - Breaking Strength: 125 lb.						(1)	5.75	6.25	twill 2/1	35	35	125	125						
Class 3 - Breaking Strength: 175 lb.						(1)	8.75	9.25	twill 2/1	45	45	175	175						
Class 4 - Breaking Strength: 200 lb.						(1)	10.75	11.25	basket 2/2	50	50	200	200						
Cloth, Spun Viscose Rayon, Resin Impregnated MIL-C-43157 (MU)																			
Class 1 - Lighter wgt.		Viscose rayon, spun				(1)	2.80	3.20	Plain	48	48	35	35						
Class 2 - Heavier wgt.						(1)	6.75	7.25	Single	35	35	85	85						
Class 3 - Scarlet colored						(1)	6.75	7.25	(1 end in dent)	35	35	85	85						
Cloth, Plain Weave, Acrylic MIL-C-43234 (GL)		Acrylic, 1 crimped cut staple	1	3 denier per filament		(1)	4.8	-	Plain	40	34	75	55				(5552) 4½%	3½%	35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-43153 Class 1 Class 2 Class 3 Class 4	(8) Acidity: 0.1% max. Alkalinity: 0.1% max. (4.3.5). pH: 5.0 - 9.0 (4.3.3).	Color (1).	Slippage value: All classes - 60 min. (4.3.10). Stretch: All classes - 10% max. (4.3.11).	Intended Use - In the manufacture of cartridge bags for artillery ammunition.
MIL-C-43157 Class 1 Class 2 Class 3	Cloth shall be finished with a urea formaldehyde resin (past type) plus a durable water repellent (melamine resin base). Loss of breaking strength of the impregnated cloth conditioned in dinitrogen tetraoxide shall be 10% max. Spray rating: 70 (5526). pH: 5.5 - 7.5 (2811).	Color - Class 1 or 2: color shall be natural unless otherwise specified. When color is specified, dye or tint shall be fugitive. Class 3: color shall be scarlet.	Slippage: min. value of 60 (4.3.4). Stretch: 10% max. (4.3.5).	Intended Use - In the manufacture of cartridge bags for artillery propelling charges.
MIL-C-43234	Lightly napped on one side. Degree of character and finish of the cloth shall be equal to the standard sample.	Color - Shall be Olive Green 106 (3). Colorfastness - standard sample available (5610-5651-5680).		Intended Use - As a component of an insulating cap.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply W	YARN: Ply F	YARN: Yarns: Denier W	YARN: Yarns: Denier F	YARN: Yarns: Filament W	YARN: Yarns: Filament F	Width Inch	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Weave	Yarns Per In. Min. (5050) W	Yarns Per In. Min. (5050) F	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb (5134) W	Tearing Strength Lb (5134) F	Air Permeability (5450)	Shrinkage Max. (5556) W	Shrinkage Max. (5556) F	Point Value Max.
Cloth, Pile, Acrylic, Fiber Pile MIL-C-43251	Pile-acrylic staple. Backing-blend of cellulose acetate & triacetate staples				3				(1)	11.5	13.5		10 wales 20 courses									
Cloth, Plain Weave, Nylon-Cloth, Plain Weave, Polyester MIL-C-43286																						
Type I - Polyester 4.0 oz.		Bright, high tenacity polyester	2	2	220 or the equivalent	220	Multi-filament		(1)	4.0	-	Plain 1 up 1 down	32	32	200	200						25.00
Type II - Nylon 5.0 oz.		Bright high tenacity nylon			840	840	Multi-filament		(1)	5.0	-	"	22	22	275	275						25.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-43251	Open and sheared. Pile height 13/32 in. ± 1/32 in. pH: 5.5 - 8.0	Color - Green 252 (3). Colorfastness - Standard sample. If none available follow 5614.	(11) Triacetate 45% min.	Intended Use - Lining components in canteen cover. Acrylic type resin used for bonding or anti-curl agent permitted.
MIL-C-43286 Type I Type II	(8) Scoured and heat treated. Finished cloth shall show no appreciable distortion or puckering, and no dimensional change greater than 3% in the warp, 3% in the diagonal direction, and 2% in the filling. pH: 5.0 - 8.5 (2811).			Intended Use - As base materials for coated cloths to be utilized in the manufacture of air supported shelters.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply	YARN: Yarns: Denier	YARN: Yarns: Filament	Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			W | F	W | F	W | F		Min | Max		W | F	W | F	W | F		W | F	
Cloth, Plain Weave, Polyester, Low Air Permeability MIL-C-43347A		Polyethylene glycol terephthalate, bright high tenacity, multifilament. Warp: 220 denier (±3%), 2-ply (plain weave). 220 denier (±3%), singles for the alternate weave (oxford). Filling: 220 denier (±3%), 3-ply.				(5) 41	8.5 -	Plain (or 2 ends weaving as 1)	64 43 (or 128 for the warp in the alternate weave)	475 540	25 30	2.0 (at 6" of water)		30.00
Cloth, Duck, Nylon 13-Ounce MIL-C-43375A (GL)		(a) Bright high tenacity nylon	3-ply or single equivalent	840 420	Multifilament	(1)	12.5 -	Plain 1 up 1 down	56 28	800 700		3.0		35.00
Cloth, Flannel, Acrylic, Rayon and Acetate MIL-C-43462 (GL)		Blend of semi-dull acrylic, dull rayon and dull acetate staples.	single 3			min. 4.4 (9)	4.5 -	2 up 2 down right twill	66 54	70 50			min. 3.5 2.5	25.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-43347A	(8) Cloth shall be scoured, high temperature heat set, calendered, and water repellent treated with a silicone emulsion, to result in a finish equal in character to the standard sample. Spray rating: 90, 90, 90 (5526).	Color - Color shall be natural.	(11)	Intended Use - In the manufacture of air supported tents.
MIL-C-43375A	Scoured, dyed, and heat set. pH: 5.0 - 8.5 (2811).	Color (1) - Standard sample available (3). Colorfastness - standard sample available (5614-5660).	(a) Yarn shall be a polyamide prepared from hexamethylene diamine and adipic acid or its derivatives.	Intended Use - In collapsible canteen covers.
MIL-C-43462	(8) Cloth shall be scoured.	Color (1) - Standard sample (3). Colorfastness - Standard samples available. If no standard sample, follow (5660-5614-5680-5556).	Resultant blend min. 50% acrylic fiber. Fabric character must match standard sample. Seam efficiency 90% min.	Intended Use - Manufacture of scarves for female personnel.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN					Width Inch	Weight Oz/ Sq Yd	Weave	Yarns Per In. Min.	Breaking Strength Lb. Min.	Tearing Strength Lb	Air Permeability	Shrinkage Max.	Point Value Max.
	Fiber		Ply	Yarns										
	Melting Point	Type		Denier	Filament				(5050)	(5100)	(5134)	(5450)	(5556)	
			W F	W F	W F		Min Max		W F	W F	W F		W F	
Cloth, Silica, Phenolic Impregnated MIL-C-81251 (WP)	Silica cloth conforming to CS 9349, Type II, except that it shall contain a min. of 96% silica, and a phenolic resin conforming to MIL-R-9299, Type II, Class 2.													
Cloth, Nylon MIL-C-81268 (WP)		Polyvinyl Chloride		210 210			1.55 2.00	Plain	22 - 24	65 65				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-81251	Uncured resin-impregnated cloth shall contain 28 ± 3% resin solids by weight Uncured resin-impregnated cloth shall contain 4-7% volatile matter by weight. Uncured resin-impregnated cloth shall have a resin flow of 15-21%.		(11) Cured cloth shall have a min. ave. flexural strength of 19000 psi at 75±5°F. No individual value shall be below 18000 psi (method 1031 of Std. 406). Cured cloth shall have a min. ave. tensile strength of 12000 psi at 75±5°F. No individual value shall fall below 11000 psi (method 1011 of Std. 406). Cured cloth shall have a min. specific gravity of 1.67 (method 5011 of Std. 406).	Intended Use - In rocket motors.
MIL-C-81268 (WP)			(11) Elongation: 35% max. Thickness: 0.006-0.009 in.	Intended Use - As a wrapper for the external surface of propellent grain in rocket motors.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

NOMENCLATURE	YARN: Fiber: Melting Point	YARN: Fiber: Type	YARN: Ply (W | F)	YARN: Yarns: Denier (W | F)	YARN: Yarns: Filament (W | F)	Width Inch	Weight Oz/Sq Yd (Min | Max)	Weave	Yarns Per In. Min. (5050) (W | F)	Breaking Strength Lb. Min. (5100) (W | F)	Tearing Strength Lb (5134) (W | F)	Air Permeability (5450)	Shrinkage Max. (5556) (W | F)	Point Value Max.
Cloth, Herringbone Twill, Polyamide, High Temperature Resistant MIL-C-81280A (WP)										(5104)			(5552)	
Type I- 3.3 oz.		High temperature aromatic polyamide melt-resistant				(5) 45	3.3 3.8	Broken herring-bone twill (4)	107 75	90 60	6 5	200	2% 1½%	
Type II- 5.0 oz.						45	5.0 5.5		94 76	130 100	16 10	100	2% 2%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-81280A (WP) Type I Type II	(8) Cloth shall be desized and scoured, without permanently setting the cloth, and an anti-static finish added. Cloth shall be heat-set at 500°F. for 15 sec. (min.) and shall be well singed on both sides. Flame resistance: Flaming time- both types: 2 sec. max. Glow time- both types: 25 sec. max. Average length of char- Type I: 3.5 in. max.; Type II: 2.5 in. max. (5903T).	Color - Cloth shall be Green to match Navy Shade No. 2433. Color shall be obtained by the use of solution-dyed fibers.	Seam efficiency: 80% min. (5110).	Intended Use - In the fabrication of lightweight flight clothing.

REFERENCES

SYNTHETIC OR MIXED SYNTHETIC CLOTHS - WOVEN

Textile Test Methods - CCC-T-191b

Method	Title
	Chemical
2611	Nonfibrous materials, enzyme method.
2810	Acidity (pH), colorimetric method.
2811	Acidity (pH), potentiometric method.
	Construction
5020	Width of cloth.
5050	Yarns per inch in woven cloth.
5030	Thickness of cloth.
	Mechanical
5100	Strength and elongation, breaking, of woven cloth, grab method.
5104	Strength and elongation, breaking, of woven cloth, ravel strip method.
5110	Sewability; strength-of-seam method.
5120	Bursting strength, ball method.
5122	Bursting strength, diaphragm.
5134	Tearing strength, tongue method.
5136	Tearing strength, trapezoid method.
5202	Stiffness, directional, cantilever bending method (Tinius Olsen).
5308	Abrasion Resistance of Cloth; Uniform Abrasion (Schiefer) method.
5410	Slippage resistance of yarns in cloth.
	Air Permeability and Water Resistance
5450	Air permeability, calibrated orifice method (Frazier).
5514	Water resistance, hydrostatic pressure, low range.
5526	Water resistance, with hydrophobic finish, spray method.
	Shrinkage Resistance
5550	Shrinkage in laundering; cotton, linen, and mixed cotton and linen cloth.
5552	Shrinkage in laundering; cloth other than cotton and linen.
5555	Shrinkage in laundering; mobile laundry method.
	Colorfastness
5614	Laundering of wool, silk, rayon cloth; Launder-Ometer.
5620	Dry cleaning (petroleum solvent).
5622	Wet cleaning (with dry cleaning).
5630	Water, cold.
5632	Salt water and soap.
5651	Crocking of cloth.
5660	Light; accelerated (Fade-Ometer).
5670	Weather; accelerated method (Twin Arc Weather-Ometer).
5671	Weather; accelerated method (National Weathering Unit).
5680	Perspiration; perspirometer method.
5682	Perspiration; tube method.
	Deterioration Tests
5850	Aging; accelerated oven method.
5852	Aging; accelerated oxygen method.
5872	Temperature, high; blocking.
	Fire-Resistance Thermal Tests
5902	Flame resistance; vertical.
5903	Flame resistance of cloth; modified vertical.
5910	Burning rate of cloth; 30° angle.

GENERAL NOTES

MIXED FIBER CLOTHS - WOVEN

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) As specified.
(2) Reprocessed, reused, noils, roving, etc.
(3) Colormatching.
(4) Nonfibrous, etc., restrictions.
(5) Weave instructions or pattern.
(6) Markings, insignia, etc.
(7) Preproduction sample.
(8) Sulfur dyes.
(9) Width exclusive of selvage.
(10) Bid sample and laboratory report.
(11) Width inclusive of selvage.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min.	Breaking Strength Lb. Min.	Tearing Strength Lb.	Air Permeability	Shrinkage Max.	Point Value Max.
			Grade USDA	System	Denier	Filament				(5050)	(5100)	(5134)	(5450)	(5556)	
Bedspread, Cotton or Cotton/Rayon Blend DDD-B-151e (See also under Cotton Cloths)		W F			W F	W F		Min/Max		W F	W F	W F		W F	
Type I- Crinkle	Cotton or blend of 50(±5)% cotton & 50(±5)% high wet-strength modulus-type rayon (Type IV cords-all cotton)	1 1	See under Cotton Cloths for all other requirements.												
Type II- Dimity		1 1													
Type III- Herring-bone stripe		1 1													
Type IV- Corded		1 1													
Cloth, Interlining, Cotton Warp, and Spun Hair-Wool Filling MIL-C-297D														(5555) Freshrunk	
Type I- Med. wgt.	Cotton warp, goat-hair & staple fleece or pulled wool (2) filling	1 1 or 2	Worsted				(1)	7.0 8.0	Plain	44 38	50 45			3% 1%	40.00
Type II- Hvy. wgt.		"	"				(1)	8.0 9.0	"	44 38	50 45			3% 1%	40.00
Type III- Lt. wgt.		"	"				(1)	5.0 6.0	"	44 40	50 38			3% 1%	40.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
DDD-B-151e Type I Type II Type III Type IV	see under Cotton Cloths for all requirements, notes, etc.			
MIL-C-297D Type I Type II Type III	(4)	Color - Warp shall be unbleached natural. Filling shall be the natural color of the hair and wool.	Stiffness (measured parallel with the filling): Type I- 0.011 load lb. min. Type II- 0.016 " Type III- 0.005 " (5202). Animal fiber content: 50% min. (2100).	Intended Use - As an interlining in clothing items.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min.	Breaking Strength Lb. Min.	Tearing Strength Lb.	Air Permeability	Shrinkage Max.	Point Value Max.
			Grade USDA	System	Denier	Filament				(5050)	(5100)	(5134)	(5450)	(5556)	
Blanket, Bed (Other Than All Wool)		W | F			W | F	W | F		Min/Max		W | F	W | F	W | F		W | F	
DDD-B-421e (See also under Cotton Cloths)															
Type I- All Cotton (See Cotton Cloths)															
Type II- Cotton W, wool F															
Class 1- Twill (Double filling)								(lb.) (blanket)						(5552)	
Size 1- 60x80 in.	20% cotton		44's min.					3.3 3.45	(5)	52 40	38 36			10% 10%	
Size 2- 66x90 in.	80% wool							4.1 4.3	(5)	52 40	38 36			10% 10%	
Size 3- 72x90 in.	&/or reprocessed							4.4 4.6	(5)	52 40	38 36			10% 10%	
Size 4- 66x84 in.	(99% wool)							3.8 4.0	(5)	52 40	38 36			10% 10%	
Type III- Blended nylon-wool-rayon-cotton and other fibers															
Class 1- Twill (Double filling)			min.					(lb.)							
Size 1- 60x80 in.	80% min. wool		44's					3.3 3.4	(5)	22 20	35 30			10% 10%	
Size 2- 66x90 in.	&/or reprocessed							4.1 4.4	(5)	22 20	35 30			10% 10%	
Size 3- 72x90 in.	wool, 10% min.							4.4 4.6	(5)	22 20	35 30			10% 10%	
Size 4- 66x84 in.	nylon, 10% max. rayon, cotton & other fibers (50% of wool, max., reprocessed)							3.8 4.0	(5)	22 20	35 30			10% 10%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
DDD-B-421e Type I Type II Class 1 Size 1 Size 2 Size 3 Size 4 Type III Class 1 Size 1 Size 2 Size 3 Size 4	(4) All types - finished equal to the standard sample with respect to nap and hand. The napped fibers shall offer considerable resistance to lifting with a needle.	Color (1) - When white is specified, color shall be unbleached white consistent with the natural color of the specified fibers. Wool shall be selected to avoid the presence of black fibers. Black fiber content shall be no greater than that of the standard sample. Std. sample available for all other colors specified (3). Colorfastness - standard sample available (5651-5614). (6)		Intended Use - As bed coverings.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min.	Breaking Strength Lb. Min.	Tearing Strength Lb.	Air Permeability	Shrinkage Max.	Point Value Max.
			Grade USDA	System	Denier	Filament				(5050)	(5100)	(5134)	(5450)	(5556)	
Scarfs, Chaplains' MIL-S-422B		W F			W F	W F		Min/Max		W F	W F	W F		W F	
Type I- Scarf, Chaplain's, Christian Faith (Army)	(a) Bengaline: rayon warp; cotton filling	- 2				Multi-filament		7.0	Plain	140 25	100 100				
Type II- Scarf, Chaplain's, Jewish Faith (Army)		- 2						7.0	"	140 25	100 100				
Type II- Scarf, Chaplain's, Christian Faith (Air Force)		- 2						7.0	"	140 25	100 100				
Type IV- Scarf, Chaplain's, Jewish Faith (Air Force)		- 2						7.0	"	140 25	100 100				
Cloth, Nylon Bunting and Cloth, Nylon-and-Wool Bunting CCC-C-476d (See also under Synthetic Cloths)															
Type I- 100% Nylon filament (See Synthetic Cloths)															
Type II- 75% Nylon (staple) 25% Wool	Bright staple nylon & fleece &/or pulled wool (2)	2 2	44's	Bradford French or American			(1) ± ½	4.8 -	Plain	32 30	115 100				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
MIL-C-422B Type I Type II Type III Type IV		Color - Type I: Black (Cable No. 65018); Type II: Bleached white; Types III & IV: Silver Grey (Cable No. 65008). Standard samples available for all shades (3-8). Colorfastness- standard sample available (5622-5680-5651-5660). (6)	(7) (a)Rayon shall be high luster, regenerated cellulose type, of the viscose or cupramonium process.	Guide sample available.
CCC-C-476d Type I Type II	Crabbed, sheared on both sides, and given a commercial anti-static finish.	Color (1)- Colors specified for the American Flag shall be in accordance with requirements specified in DDD-F-416. Standard sample available for other colors specified (3). Colorfastness - standard sample available (5632-5630-5651-5660).	There shall be a plain woven selvage on each side, ¼ in (±1/8 in.) wide, with 2 ends weaving as 1.	Intended Use - Primarily in the manufacture of various types of flags.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)			Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			Grade USDA	System	Denier	Filament				Backing	Pile	Filling						
Cloth, Pile, Alpaca; and Cloth, Pile, Wool MIL-C-483B		W F			W F	W F		Min/Max			W	F	W	F	W F Pile length (in.)		W F Animal Fiber %-age	
Type I- Cloth, wool, pile, double face, 5/16 in.	Ground or backing yarns (warp or filling): cotton. Pile Yarns: wool; 50's-56's; 2-ply; Bradford, French, or American System.						(9) 54 min.	15.0	Modified "W" weave (5)	38	19	32	65	50	5/16 (5/32 ea. face)		60	
Type II- Cloth, wool, pile, double face, 1/2 in.							"	20.5	"	38	19	36	60	70	½ (¼ ea. face)		60	
Type VII- Cloth, alpaca, pile, single face, 1/2 in.	Ground or backing yarns: Same as for I and II. Pile yarns: alpaca; 56's min.; 2-ply; Bradford, French, or American System.						"	19.0	Fast pile (5)	54	18	46	60	90	½		55	
Type IX- Cloth, wool, pile, double face, 1/4 in.	Ground and filling yarns: Same as for I and II. Pile yarns: same as for I and II.						"	14.0	Modified "W" weave (5)	38	19	32	65	50	¼ (1/8 each face)		60	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
MIL-C-483B Type I Type II Type VII Type IX	(4) Pile shall be tigered, so that pile tufts are open to within 1/8 in. of the ground cloth and in an upright position. Pile shall be vacuumed to remove loose fibers. Cloth shall show no more than a trace of loose fibers or compound when shaken vigorously over a smooth black surface. Cloth shall have a properly applied silico fluoride moth repellent treatment. Animal fiber shall have 0.4 - 0.7% fluorine (4.4.1). pH: 3.3 - 4.5 (2811).	Color - Type VII: natural. (7) Types I, II & IX: natural or dyed(1). Standard sample available for dyed (3). Color to be obtained by chrome or neutral premetallized dyestuffs by piece, stock, or yarn methods. Colorfastness - standard sample available (5651-5614-5622-5680).		Intended Use - As a protective lining for cold climate clothing, and to be used in the manufacture of winter flying clothing.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/ Sq Yd	Weave	Yarns Per In. Min.		Breaking Strength Lb. Min.		Tearing Strength Lb.		Air Permeability	Shrinkage Max.		Paint Value Max.
			Grade USDA	System	Denier	Filament				(5050)		(5100)		(5134)		(5450)	(5556)		
		W | F			W | F	W | F		Min/Max		W | F		W | F		W | F			W | F	
Towel or Dishcloth (Crash, Cotton, and Cotton and Linen-Mixed); Cloth, Crash, Cotton																			
DDD-T-511c (See also under Cotton Cloths)																			
Type I- Towel or dishcloth																			
Class 1- Cotton warp and linen filling (unbleached)	Cotton & Linen						17	6.0 min.	Plain	28	22	45	35						40.00
Class 2- All Cotton (bleached) (See under Cotton Cloths)																			
Type II- Cloth, crash, cotton (bleached) (See under Cotton Cloths)																			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
DDD-T-511c Type I Class 1 Class 2 Type II	(4) Type I, Class 1 towels shall be scoured and unbleached.	When specified, towels shall have woven, colored stripes, 3/16 - 5/16 in. wide, located 7/16 - 9/16 in. from each selvage edge. Colorfastness - stripes shall show "good" fastness (5600-5610).	The height of the rise of the colored water shall be a min. of 6 cm. in 5 min. in both warp and fill.	

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5060)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			Grade USDA	System	Denier	Filament									
Cloth, Serge, Wool; Wool and Nylon MIL-C-823E, Amd. 2 (See also under Wool Cloths)		W F			W F	W F		Min/Max		W F	W F	W F		W F	
Type I- Wool (See Wool Cloths)															
Type II- Wool and nylon	83% min. fleece &/or pulled						(9)							(5558)	
Class 1- 18 oz.	wool & 15%	2 1	60's	Bradford			60 min.	18.0 -	4-harness	66 52	135 120			4% 2½%	10.00
Class 2- 16 oz.	min. nylon top or cut tow (2) wool content 95% of wool used.	2 1	60's	French or American				16.0 - (54" lin yd)	2/2 right twill	70 54	120 110			4% 2½%	10.00
Cloth, Fleece, Cotton Warp and Wool-Nylon Filling; Lining, 15-Oz. Shrink Resistant MIL-C-2069D (GL)	Filling: Fleece &/or pulled wool (80% min) & staple nylon (10-20%)(2) Warp: cotton	2 1	(a)	Woolen			(9) 56 min.	15.0 16.5 (54" lin yd)	2/2 right twill	36 36	40 30			(5558) 5% 4% (5554) 4% 3%	15.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES (Not Specification Requirements)
MIL-C-823E Type I Type II Class 1 Class 2	Fulled and sheared and otherwise finished to give stability of color and finish. Type and character of finish shall conform to that of standard sample. Supplier shall obtain approval for finish prior to production. pH: 5.5 - 8.5 (2811).	Color - Color, types of colorants, and methods of coloring (1). Standard samples available (3). Speck dyeing prohibited. Army Green 44 to be produced by blending dyed wool top. Unless otherwise authorized, piece dyeing is prohibited. Colorfastness - standard sample available (5660-5622-5680-5651).	(7)(10).	Intended Use - In service, semi-dress, and dress uniforms and functional clothing used by the DOD.
MIL-C-2069D	Fulled and napped on face and back to equal standard sample. Napped fibers shall offer considerable resistance to lifting with a needle. Treated for resistance to felting shrinkage by an approved oxidation or resin process. When oxidation process for shrinkage resistance is used, alkali solubility of treated cloth shall not increase more than 5% (2800). pH: 4.0 - 8.0 (2811).	Color - Shall be Olive Green 104 - standard sample available (3-8). Colorfastness - standard sample available (5614-5680-5651).	(7) Wool blend. (a) 40% min. - 56's 40% max. - 50's 20% max. - 48's (reprocessed)	Intended Use - For the lining for the fur ruffed hood.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			Grade USDA	System	Denier	Filament									
Cloth, Nylon and Cotton, Interwoven MIL-C-4487 (USAF)	Cotton & bright high tenacity nylon	W | F 2			W | F 70 100	W | F Continuous	(9) 40 min.	Min/Max - 4.5	(5)	W | F 184 82 (nylon: 92, cotton: 92)	W | F (5104) 110 110	W | F 8 -	40-110	W | F Preshrunk 4% 2% (5552)	
Cloth, Cotton Back Rayon Twill MIL-C-5645, Amd. 1															
(a) Type I- High tenacity rayon warp	Cotton & bright viscose process rayon	2 or 3				Continuous	40½- 42	8.5 9.25	3/1 warp faced twill	240 62	(5104) 185 90	6 5	17	Shrinkage 3-launder 5% 2% 3-clean 3% 2%	
Type II- Semi-high tenacity rayon warp		"				"	"	8.5 9.25	"	240 62	150 90	5 5	17	5% 2% 3% 2%	
Type III- Regular rayon warp	"	"				"	"	8.5 9.25	"	240 62	130 90	4½ 5	17	5% 2% 3% 2%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
MIL-C-4487 (USAF)	Use of finishing or loading materials to increase weight or breaking strength is prohibited. Use of dyestuffs, detergents, or other chemicals or finishing agents which would cause deterioration in storage or dermatitis on skin contact is prohibited. pH: 4.0 - 8.0 (2811).	Color - Sage Green 518 unless otherwise specified (8). Colorfastness - "good" (5614-5651-5660-5682).		Intended Use - In the manufacture of special flying clothing.
MIL-C-5645 Type I Type II Type III	(4) Cloth shall be given a suitable, durable water repellent treatment. Spray rating: Initial- 80; After 3 launderings - 65; After 3 dry cleanings - 65 (5526). Hydrostatic water repellency: Initial - 25 cm.; After 3 launderings - 17 cm.; After 3 dry cleanings - 25 cm.	Color (1) - To be obtained with vat dyes. Colorfastness - "good" (5660-5622-5610-5632-5620-5651-5680-5682).	(a)Unless otherwise specified. Type II shall be furnished.	Intended Use - In the fabrication of flight garments.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			Grade USDA	System	Denier	Filament									
Cloth, Taffeta, Nylon Face Wool Back and Cloth, Satin, Rayon Face Wool Back MIL-C-8797A (ASG)		W | F			W | F	W | F		Min/Max		W | F	W | F	W | F		W | F	
Type I- Nylon face	30% min. fleece or pulled wool (2) & bright polyamide of hexamethylene diamine & adipic acid or its derivatives. Melting point: 482°±10°F.		64's			Continuous	(1)	6.5±.5	Nylon face: special taffeta weave with 2 fillings (5). Face: 100% nylon. Fill: wool, inserted so that face is not affected & back surface is all wool.	(a)	220 220	5 8			10.00
Type II- Rayon face	30% min. fleece or pulled wool (2) & bright viscose rayon of commercial quality.		64's			Continuous	(1)	9.1±1	(5) Face: rayon. Fill: wool, inserted so that face is not affected & back surface is all wool.	(a)	180 70	3 3			10.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES (Not Specification Requirements)
MIL-C-8797A (ASG) Type I Type II	(4) Cloth shall be uniformly napped on wool-backed side to provide a finish equal to the standard sample. Type I shall be given a water resistant treatment. Spray rating: 70, 70, 70 (5526). Rain penetration: 0.5 gms. (max.) (5522). pH: 4.5 - 9.0 (2811).	Color (1) - Standard samples available (3-8). Colorfastness - standard sample available (5630-5632-5622-5651-5660-5680).	(7) (a)Yarns/Inch: Type I- nylon warp: 168; Nylon fill: 64; Wool fill: 64. Type II- Rayon warp: 320; Rayon fill: 76; wool fill: 76. Sewability: 70% min. (5110).	Intended Use - In the fabrication of flight clothing and uniform clothing. They are used in the clothing as outer surface, lining, and pocketing.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5134)	Air Permeability (5450)	Shrinkage Max. (5558)	Point Value Max.
			Grade USDA	System	Denier	Filament									
Cloth, Flannel, Wool and Nylon, 16-Oz, Shrink Resistant		W F			W F	W F		Min/Max		W F	W F	W F		W F	
MIL-C-11065D (GL)	45% min. fleece &/or pulled wool 10% min. staple nylon 40% max. wool noils (2).	1 1	new: Woolen 62's noils 60's				(9) 56 min.	16.0 -	2/2 broken twill (2 ends right, 2 ends left)	38 33	50 40			(5558) 5% 5% (5554) 5% 3% (Felting Shrinkage)	10.00
Scarf, Neckwear; Women's															
MIL-S-17868A (MC)	(a) Cotton & flaxce &/or pulled wool	2 ?	wool: 64's Worsted cotton:					5.0 -	2/2 right twill (3 cotton ends on each edge)	28 25	30 15			5% 5%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
MIL-C-11065D	Cloth shall be fulled (wool stock carbonized if necessary), napped and cropped. Finished cloth shall have uniformly developed closely cropped finish, with the same degree of soft hand, drape, and character of finish on the face and back as the standard sample. Approved shrinkage control treatment for felting shrinkage, by an oxidation, resin, or by interfacial polymerization process. When resin or interfacial polymerization are used, stiffness shall be 0.011 load lb. max. in the warp. When oxidation is used, alkali solubility shall not increase more than 6%. pH: 4.0 - 8.0 (2811).	Color - Shall be Olive Green 108 and shall be obtained by blending chrome or neutral premetallized dyed wool and nylon. Speck and piece dyeing are prohibited.(3) Colorfastness - standard sample available (5660-5622-5680-5614-5651).		Intended Use - As shirting material for male military personnel, as a component of the cold-wet and cold-dry uniform for temperate and cold areas.
MIL-S-17868A	Type and character of finish shall conform to the standard sample. pH: 4.0 - 8.0 (2310).	Color - Shall be red to match standard sample (3). Yarn shall be dyed. Colorfastness - "fair" (5614-5682-5622-5651-5660).	(a)Cotton yarn for doup edges shall have sufficient strength to maintain selvages in their proper alignment without fraying of slipping.	Intended Use - Scarf for use by female personnel of the U.S. Marine Corps. Guide sample available.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/ Sq Yd	Weave	Yarns Per In. Min.	Breaking Strength Lb. Min.	Tearing Strength Lb.	Air Permeability	Shrinkage Max.	Point Value Max.
			Grade USDA	System	Denier	Filament				(5060)	(5100)	(5134)	(5450)	(5558)	
Cloth, Tropical: Wool; Polyester/Wool MIL-C-21115k (GL) Amd. 1 (See also under Wool Cloths)		W F			W F	W F		Min/Max		W F	W F	W F		W F (5558)	
Type I- Wool (See Wool Cloths)							(9)								
Type III- Polyester-wool blend	(a) 55-70% polyester 40% min. fleece &/or pulled wool	2 2	64's	Bradford French or American	3 3		60 min.	9.0+0.5 (oz/54" lin yd)	Plain	54 42	100 80			4% 3%	except M-1 - 12.00 15.00 M-1
Cloth, Sateen, Cotton Warp and Nylon Filling MIL-C-21848A (SA)	Warp: cotton Fill: dull nylon. Min. m.p.: 244°C	1 3			200 200	34 34	(1)	9.2 -	5-harness satin (5)	85 54	140 300			(5550) 2% 2%	30.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
MIL-C-21115E Type I Type II	Cloth shall be scoured, brushed, sheared, and singed, pressed and decated to equal standard sample. Cloth shall show no more creping after shrinkage test than standard sample. Cloth shall show no more pilling than standard sample. pH: 5.5 - 8.5 (2811).	Color (1) - standard sample available. Color shall be obtained by blending top dyed wool with stock, top or towed dyed polyester, with wool and polyester fibers dyed separately, then blended. Pigmented fibers may be used instead of dyed as long as color is equal to that of standard sample. Monotone shade shall present a solid appearance with no more heatheriness than standard sample. (3) Colorfastness - standard sample available (5622-5651-5660-5680).	(a) Polyester shall be semi-dull, made from polyethylene glycol terephthalate, either homopolymer or modified polymer as appropriate. Min. avg. fiber length: 3 in.	Intended Use - In the manufacture of shirts, costs, and troupers for officers and enlisted personnel.
MIL-C-21848A	(4)	Color - Shall match Green 3423 (3) - standard sample available (8). Colorfastness - standard sample available (5651-5660-5610-5680).	(7)	Intended Use - In clothing items for use by Navy personnel.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min.	Breaking Strength Lb. Min.	Tearing Strength Lb.	Air Permeability	Shrinkage Max.	Point Value Max.
			Grade USDA	System	Denier	Filament				(5050)	(5100)	(5134)	(5450)	(5556)	
		W F			W F	W F		Min/Max		W F	W F	W F		W F	
Cloth, Polyester and Cotton Twill MIL-C-21851 (SA)	65(±2)% polyethylene glycol terephthalate. 35(±2)% cotton.	1 1					(9) 45 min.	5.2 -	2 right 1 twill	127 58	190 70		35	2% 2%	30.00
Cloth, Broadcloth, Polyester and Cotton; Cloth, Poplin, Polyester and Cotton MIL-C-21881B (SA)															
Type I- Broadcloth															
Class 1- Khaki 3714	65(±2)% polyester and 35(±2)% cotton	1 1			1.5 &/or		(9) 42 min.	3.2 3.7	Plain	120 70	80 36			Preshrunk 1% 1%	30.00
Class 2- White 3024		1 1			3.0		(selvage: ½ in. max.	3.2 3.7	"	120 70	80 36			1% 1%	30.00
Type II- Poplin															
Class 1- Khaki 3715		1 1			"			4.2 4.7	"	100 40	100 40			1% 1%	30.00
Class 2- White 3013		1 1			"			4.2 4.7	"	100 40	100 40			1% 1%	30.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
MIL-C-21851	(4)	Color - Cloth shall be dyed to match Blue 3329 (3-8). Standard sample. Colorfastness - standard sample available (5610-5680-5651).	(7) Original stiffness shall not be more than 3.0×10^{-4} in-lb. (geometric means) and shall not be less than 0.9×10^{-4} in-lb. after 1 laundering.	Intended Use - In the manufacture of submarine overalls worn by male Navy personnel.
MIL-C-21881B Type I Class 1 Class 2 Type II Class 1 Class 2	(4) Stiffness - Initial: Type I- 0.6×10^{-4} in-lb max; Type II- 1.0×10^{-4} in-lb max. After laundering: Type I- 0.25×10^{-4} in-lb min; Type II- 0.40×10^{-4} in-lb min (5206). pH: 5.0 - 8.0 (2811).	Color (1-8-3). When Khaki 3714 or 3715 is specified, cotton fibers shall be vat dyed and polyester fibers shall be dyed with suitable fast dye. When White 3024 or 3013 is specified, cloth shall be bleached and tinted with Vat Blue 6, C.I. No. 69825/6 to match standard sample. Colorfastness - standard sample available for dyed cloth (5660-5610-5680-5600-5651).	(7) Seam efficiency: 80% min. (5110).	Intended Use - For use in shirts and boxer style drawers worn by Navy personnel.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply		Woolen Yarns		Synthetic Yarns				Width Inch	Weight Oz/ Sq Yd		Weave	Yarns Per In. Min. (5060)		Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5134)		Air Permeability (5450)	Shrinkage Max. (5556)		Point Value Max.
				Grade USDA	System	Denier		Filament			Min/Max												
		W	F			W	F	W	F					W	F	W	F	W	F		W	F	
Cloth, Satin, Rayon Warp and Cotton Filling MIL-C-21883A (SA)	Cotton & bright viscose rayon	-	1			300	-	Continuous	-	(9) 41 min.	7.9	8.5	5-harness satin (5)	144	56	275	70				8%	3%	30.00
Cloth, Polyester Fiber, Cotton MIL-C-22148 (MC)	(a) 35(±2)% cotton 65(±2)% semi-dull polyester	1	1			3	3			(1)	2.9		Plain	92	80	45	40				(5552) Preshrunk 1%	1%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
MIL-C-21883A	(4) Cloth shall have a natural finish. It shall be desized and finished with minimal warpwise tension. Use of finishing or loading materials to increase weight or breaking strength is prohibited.	Color (1) - To match specified Navy Shades (3). Cotton yarn shall be unbleached and undyed. Rayon warp yarn shall be "solution dyed" with coloring pigments introduced into the viscose solution before yarn is spun. White yarn shall be bright, unpigmented. Colorfastness - standard sample available (5610-5660).	(7) Selvage shall be 3/8 (±1/16) in. wide and may be made from white or colored yarn.	Intended Use - In the manufacture of identification garments worn by aircraft carrier flight deck personnel.
MIL-C-22148	(4) Cloth shall not show pilling tendencies to exceed 1 pill/sq.in. Cloth shall be heat set to show no distortion and remain dimensionally stable when pressed with a flat iron at 300°(+15°)F.	Color - Shall be White M410 or Green M230 (1) and shall match approved shade sample (3). Colorfastness - "good" (5600-5651-5622-5614-5660-5682).	(7) (a)Polyester fiber shall be polyethylene glocol terephthalate, with a staple length of 1½ in. min.	Intended Use - In the manufacture of shirtwaists worn by female personnel of the Marine Corps.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			Grade USDA	System	Denier	Filament									
Cloth, Cotton and Polyester Fiber, For Summer Uniforms MIL-C-27353 (USAF) Amd. 1		W F			W F	W F		Min/Max		W F	W F	W F		W F	
Type I- Plain weave	(a) 50-55% polyester & 45-50% cotton	1 1			3 3		(1)	4.3 4.7	Plain (1/1)	64 49	60 50	8 5½	100	1% 1%	30.00
Type II- Twill weave		1 1			3 3		(1)	6.3 6.7	2/1 right twill	100 55	105 65	8 7	30	1% 1%	30.00
Cloth, Broadcloth (End-and-End) Polyester and Cotton MIL-C-38419 (USAF)	(a) 65% min. polyester & cotton 30% min.	1 1			1.5 1.5		(1)	3.2 3.7	(b) Plain	100 64	70 52			(5552) 1% 1%	25.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
MIL-C-27353 Type I Type II	(4) Before dyeing, cloth shall be desized, scoured, and mercerized to give a lustrous finish. Type I cloth shall be brushed (not napped) to raise surface fibers on both sides, heat set and singed. Type II cloth shall have warp twill face brushed (not napped), then singed, and filling face heat set, then singed without brushing.	Color - Shall be USAF 1505 tan shade or other colors as specified. Standard samples available (3). Cloth shall be piece dyed. Vat dyes shall be used for cotton fibers and suitable, compatible dyestuffs for the polyester (8). Fiber shade differences shall not be evident in the blend. Colorfastness - "good" (5660-5610-5600-5682-5651)	(7) (a)Polyester shall be of terephthalic acid and ethylene glycol, 1½ in. staple length, with a min. fiber tenacity of 3.5 grams per denier (at 60% elongation/min.) and a min. melting point of 232°C. Sewability: "good". Seam efficiency: 90% (5110).	Intended Use - In the fabrication of summer uniforms.
MIL-C-38419	(4) Cloth shall be scoured, singed, stabilized and mercerized for a smooth, lustrous finish equal to that of the standard sample.	Color - Cloth shall match approved standard shade USAF Blue 1550 (3-8). Colorfastness - standard sample available (5660-5680-5651-AATCC, Type IV).	(7) (a)Polyester fiber shall be polyethylene glycol terephthalate. (b)Cloth shall be in an end-and-end construction, with alternating warp ends in blue and white. Blue ends shall be solid color and white ends and all picks shall be clean white, bleached to attain min. Munsell neutral color rating of 8.5 (AATCC). Seam efficiency: 90% (5110).	Intended Use - In the manufacture of shirts and shirtwaists worn by Air Force personnel.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min.	Breaking Strength Lb. Min.	Tearing Strength Lb.	Air Permeability	Shrinkage Max.	Point Value Max.
			Grade USDA	System	Denier	Filament				(5050)	(5100)	(5134)	(5450)	(5556)	
Cloth, Corded Polyester-Cotton Warp and Polyester Filling		W F			W F	W F		Min/Max		W F	W F	W F		W F	
MIL-C-40052C	(a) Cotton & semi-dull polyester	1 1 &3 &2			75% 150 Multi- 3 or fila- 25% 70 ment 1.5(±4%)		(11) 45 min.	4.3 -	Plain (warp stripe: 2 ends cotton, 1 end spun polyester)	ground 56 28 cord	64 500 300			(5552) 2% 2%	25.00
Cloth, Duck; Cotton and Nylon MIL-C-41836A (GL) Amd. 1	45-50% Cotton & 55% max. semi-dull nylon	3 3					(1)	14.5 -	Plain	46 26	425 300		3.0		35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellency, etc.)	NOTES (Not Specification Requirements)
MIL-C-40052C	(4)	Color (1) - standard sample available (3). Color of ground warp shall be obtained by yarn or piece dyeing. Polyester shall be natural color (8). Colorfastness - standard sample available (5614-5651-5660-5680).	(a)Polyester shall be polyethylene glycol terephthalate. Warp yarn shall have a min. staple length of 1½ in.	Intended Use - In women's summer uniforms.
MIL-C-41836A	Cloth shall be mildew resistant treated with copper 8-quinolinolate, so that treated cloth contains 0.04-0.15% copper as metal from 8-quinolinolate (2050 or 2051).	Color (1) - standard sample available (3). Use of disperse dyes on the nylon is prohibited (8). Colorfastness - standard sample available (5671).	(7)	Intended Use - In the manufacture of tropical combat boots.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply	Woolen Yarns		Synthetic Yarns		Width Inch	Weight Oz/Sq Yd	Weave	Yarns Per In. Min. (5050)	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5134)	Air Permeability (5450)	Shrinkage Max. (5556)	Point Value Max.
			Grade USDA	System	Denier	Filament									
Cloth, Wind Resistant Sateen, Cotton and Nylon		W F			W F	W F		Min/Max		W F	W F	W F		W F	
MIL-C-43191	(a) 50%(-5%) Cotton & 50%(+5%) nylon	1 1			2-3 2-3		(1)	8.5 9.0	5-harness sateen (5)	126 72	180 180	(5132) 6 6	7.0	(5550) 2% 2%	30.00
Cloth, Broadcloth, Wool, and Wool Synthetic															
MIL-C-82252 (See also under Wool Cloths)															
Type I- Wool (See Wool Cloths)															
Type II- Synthetic Wool															
Class 1- 15.5 oz., Blue	83% min. fleece(2) and/or pulled wool & 17% max. synthetic fiber (1).	1 1	70's Woolen				(9) 54 min.	15.0 16.0	2/1 right twill	56 55	50 45			(5590) 2% 1½%	15.00
Class 2- 16.5 oz., Scarlet		1 1	60's "				"	16.0 17.0	"	54 54	55 45			3½% 2½%	15.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES (Not Specification Requirements)
MIL-C-43191	(4) Cloth shall be finished with filling effect side as face. Cloth shall be singed, desized, mercerized, dyed, & given an approved Quarpel-type water repellent treatment. Spray rating: 90, 90, 80 (5526). Hydrostatic Pressure, min. avg: Initial- 35; After 3 launderings: 30 min. (5514). Dynamic absorption: Initial- 20 max.; After 15 launderings- 20 max. (5500). pH: 6.5 - 8.5 (2811).	Color - Shall be Olive Green 107 - standard sample available (3-8). Colorfastness - standard sample available (5660-5610-5651-5680-5600).	(7) (a)Nylon shall be semi-dull, high tenacity, high modulus staple, made from hexamethylene diamine and adipic acid, with a melting point of 250°(±6°)C. Use of nylon waste is prohibited. Filling effect side shall be identified by stamping "face" on that side at the end of the roll. Seam efficiency: 80% (5110).	Intended Use - In clothing where a high degree of wind resistance and thermal resistance is of prime importance.
MIL-C-82252 Type I Type II Class 1 Class 2	Cloth shall be scoured, fulled, free from vegetable matter, with a uniformly developed broadcloth finish. Cloth shall be pressed and have a lustrous face finish equal to that of the standard sample. When specified, cloth shall be moth repellent treated in accordance with the method specified by the contracting officer. pH: 4.0 - 8.0.	Color - Class 1 shall by dyed with indigo dye to match standard sample of Blue 2307(3). Class 2 cloth shall be stock dyed with suitable chrome dyestuffs to match standard sample of Scarlet 2501 (3). Colorfastness - standard sample available (5660-5622-5680-5651).	(7)	Intended Use - In service, semi-dress, and dress uniforms and functional clothing.

REFERENCES

MIXED FIBER CLOTHS - WOVEN

Textile Test Methods - CCC-T-191b

Method	Title
	Chemical
2050	Copper content of textiles, Electrolytic method.
2051	Copper content of textiles, Polargraphic method.
2100	Wool content, acid method.
2800	Wool fiber damage, alkali solubility method.
2810	Acidity (pH), colorimetric method.
2811	Acidity (pH), potentiometric method.
	Construction
5040	Weight of cloth; cut, roll or bolt method.
5050	Yarns per inch in woven cloth.
	Mechanical
5100	Strength and elongation, breaking, of woven cloth, grab method.
5104	Strength and elongation, breaking, of woven cloth, ravel strip method.
5110	Sewability: strength-of-seam method.
5132	Tearing strength, pendulum method (Elmendorf).
5134	Tearing strength, tongue method.
5202	Stiffness, directional; cantilever bending method (Tinius Olsen).
5206	Stiffness, drape and flex; cantilever bending method (Pierce formula).
	Air Permeability and Water Resistance
5450	Air permeability, calibrated orifice method (Frazier).
5500	Water resistance, dynamic absorption.
5514	Water resistance, hydrostatic pressure, low range.
5526	Water resistance with hydrophobic finish; spray method.
	Colorfastness
5600	Chlorine bleaching; cloth.
5610	Laundering, cotton and/or linen; Launder-Ometer.
5614	Laundering of wool, silk, rayon cloth; Launder-Ometer.
5622	Wet cleaning (with dry cleaning).
5630	Water, cold.
5632	Salt water and soap.
5651	Crocking of cloth.
5660	Light, accelerated (Fade-Ometer).
5670	Weather; accelerated method (Twin Arc Weather-Ometer).
5680	Perspiration; perspirometer method.
5682	Perspiration; cube method.

GENERAL NOTES

COATED CLOTHS

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) As specified.
(2) Width exclusive of selvage.
(3) Colormatching.
(4) Preproduction.
(5) Bid sample and laboratory report.
(6) Nonfibrous, etc., restrictions.
(7) Width inclusive of selvage.
(8) Weave diagram and/or instructions.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Min	Char Length Max"	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Psi Min (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5672)
Fabrics, Upholstery CCC-F-66a, Amd. 3											W F	W F					
						Yarns/Inch Min. W	F										
Type I- Flat Cloths																	
1. Brocatelle	Warp & filling:		16.0 per		(1)	170	85										
2. Damask	cotton, linen, ray-		12.0 lin.		"	170	50										
3. Matelasse	on, nylon, polyester		22.0 yd.		"	170	75										
4. Tapestry	or any mixture there-		20.0 (54"		"	132	60										
5. Novelty cloth	of. Nylon &/or poly-		20.0 wide)		"	94	48										
	ester: 50% max.																
Type II- Loop pile cloths						Pile Stuffer	Ground Fill				Pile loops/Inch		Breaking Strength				
6. Plain rib frieze	Face warp: 50% min.	Stuffer ends on				36	72	18	29		522		65	50			
7. Plain frieze	wool &/or mohair,	backs or coating	29.0 (un-		(1)												
	with the balance	of min. 1.8 oz.	coat-														
8. Pattern frieze	rayon. Stuffer,	synthetic resin,	33.0 ed)		"	9	72	18	23		103		65	50			
	ground & fill:	natural or syn-															
	cotton &/or	thetic-rubber	24.0		"	26	-	-	24		312		65	50			
	rayon.	latex/lin. yd.															
		(54")															
Type III- Cut pile cloths											Tufts/in^2		Thickness				
9. Mohair velvet	Weave: 4-pick W	--	25.0		(1)	28	-	28	48		385		.130				
	mohair pile	2.5 oz. min. syn-															
10. Mohair velvet	Weave: 2-pick V	thetic latex/lin.	19.0		"	27	-	54	30		405		.140				
	mohair pile	yd. (54").															
11. Velour	Weave: 2-pick V	--	22.0		"	40	-	40	36		560		.085				
	cotton pile																

(Continued)

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-F-66a				
Type I				
1.		Color (1).		
2.		Colorfastness - "fair"		
3.		(5660, for 40 hours).		
4.				
5.				
Type II				
6.	Loop pile cloths shall	Color (1).		
7.	be guaranteed resis-	Colorfastness - "fair"		
8.	tant to moths & other	(5660, for 40 hours).		
	insects for 5 yrs. min.			
	Moth-resistant compound			
	shall be nontoxic and			
	nonirritant.			
Type III				
9.	Mohair velvets shall be	Color (1).		
10.	guaranteed moth-resis-	Colorfastness - "fair"		
11.	tant for 5 yrs. min.	(5660, for 40 hours).		
	Compound used shall be			
	nontoxic & nonirritant.			

(Continued)

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)	Width Inch	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5132)	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min	Flame Resistance (5903) Char Length Max"	Flexibility Cm. Max. Warp (5204)	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min / Max		W / F	W / F		W / F	W / F	70°F / -40°F			
Fabrics, Upholstery CCC-F-66a, Amd. 3 (Cont'd)													
Type IV- Misc. Cloths					Yarns/Inch W / F								
12. Dobby	Face warp: wool &/or mohair. Back warp & fill: cotton &/or rayon.	Back coated with min. 1.8 oz. of synthetic resin, natural, or synthetic-rubber latex/lin yd (54")	19 (uncoated) per lin. yd. (54")	(1)	18 (face) 36 (back)	24							
13. Dobby (novelty)	Face: 30% min. wool &/or mohair; balance rayon. Backing: cotton &/or rayon.	"	23.5 "	(1)	12½ (face) 25 (back)	9½ (face) 19 (back)							
14. Rough texture (plain or print)	100% cotton; twisted 2-ply vat dyes		15 per lin. yd. (54")	(1)	32	32							
15. Cretonne (printed)	100% cotton; vat dyes		10 "	(1)	60	50							
16. Friezette	100% cotton		15 "	(1)	80	30							
17. Mohair satin (plain or print)	Warp: cotton. Filling: 25% min. mohair or wool; balance rayon.		14 "	(1)	66	60							
18. Duck (dyed or print)	Not less than 2-ply cotton, vat dyed colors, mildew resistant & water-repellent treated.		12 "	(1)	50	40							

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-F-66a (Cont'd) Type IV 12. 13. 14. 15. 16. 17. 18.	Cloths Nos. 12, 13 & 17 shall be guaranteed resistant to moths & other insects for 5 yrs. min. Moth-resistant compound shall be nontoxic & nonirritant.	Color (1). Colorfastness - "fair" (5660 for 40 hours).		

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pr[illegible] (5[illegible]12)	Flame Resistance (5903) After Flame sec min	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Screening, Non-metallic, Insect L-S-125, Amd. 3 (GL) (See also under Synthetic Cloths)																		
Type I- Polyvinylidene chloride (See Synthetic Cloths																		
Type II- Plastic coated or impregnated fibrous glass																		
Class 1- 0.0115" dia.																(a)		
Size 16x16		Compound of polymerized or copolymerized virgin vinyl chloride resin, placticized with phosphate or phthalate ester plasticizers exclusively. Pigmented.			(1)							10				-		No. 1
Size 18x14					"							10				-		"
Size 18x16					"							10				90		"
Size 18x18					"							10				105		"
Size 20x20					"							10				150		"
Size 22x22					"							10				160		"
Class 2- 0.0130" dia.																		
Size 16x16					(1)							10				180		No. 1
Size 18x14					"							10				180		"
Size 18x16					"							10				-		"
Size 18x18					"							10				200		"
Size 20x20					"							10				250		"
Size 22x22					"							10				275		"

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
L-S-125 Type I Type II Class 1 Size 16x16 Size 18x14 Size 18x16 Size 18x18 Size 20x20 Size 22x22 Class 2 Size 16x16 Size 18x14 Size 18x16 Size 18x18 Size 20x20 Size 22x22		Color shall be integrally incorporated in the plastic coating. Aluminum shall fall between color Nos. 36492 and 36173 of Fed. Std. No. 595. Colorfastness - "fair" (Fed. Std. No. 141, method 6151).	(a) See specification for requirements after heat aging, accelerated weathering, and water immersion. Tensile strength of filaments: 125,000 psi (4.4.5). Elongation of filaments: 3% max. Filament slippage resistance: Class 1- 2.5 lb. min.; Class 2- 5.0 lb. Filaments shall remain intact after 10 sec. contact with the end of a lighted cigarette. Woven or mock selvage on each edge, of at least 6 ends/edge. Splices shall be well made, show no tails, and be 1 in. max. long. Knots are not permitted. No. of splices shall not exceed 1/sq. ft. or 15 per roll.	Intended Use - For installation in or on any dwelling, patio, screen enclosure, building, or structure, for the purpose of preventing the ingress of flies, mosquitoes, or other insects, particularly where corrosive conditions are encountered.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp 70°F ± 40°F (5204)	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Wall Covering, Vinyl Coated CCC-W-408																		
Type I- Lgt. Duty	Cotton cloth, non-woven fiberglass, asbestos, or other suitable materials.	Virgin polymerized or copolymerized vinyl-chloride resin, plasticized with phosphate or phthalate ester plasticizers exclusively & shall be integrally pigmented. When necessary, cloth shall be top-coated in the same manner.	7.0	-	(1)	40	30	14	12	20	3	3	4½	4½				No. 2
Type II- Med. Duty			13.0	-	"	50	55	25	25	50	3	3	4½	4½				"
Type III- Hvy. Duty			22.0	-	"	100	95	80	50	100	3	3	4½	4½				"
Class 1- Regular finish Class 2- Mildew resistant																		
Cloth, Coated (Table and Shelf) CCC-C-417c, Amd. 1	Cotton	Synthetic resin; pigmented	6.25	-	54 ±½	30	22											No. 1

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-W-408 Type I Type II Type III Class 1 Class 2	Base cloth for Class 2 shall be mildew-resistant treated (5762). Coating compound shall be applied to one side of base cloth to form continuous film. Grain shall conform to that of standard sample.	Color (1) - standard sample available. Colorfastness (5660).	(4-5). Breaking strength after soil burial: 80% of initial (5762). Shrinkage: All types, warp- 2% max. Types I & II, fill-1% max. Type III, fill- 1½% max. (4.4.4). No evidence of cracking, stiffening, flaking, or separation of coating from backing at 20°F. (4.4.5). Cloth shall not become stiff or brittle, soft or tacky, discolored or show loss of grain after heat aging (5831). Crocking resistance - "good" (5651).	Intended Use - Type I; as a maintenance-free covering for areas not subjected to abrasion or wear traffic, and for ceiling. Type II; for general use in areas where there is average traffice and scuffling. Type II; only as wainscot or lower wall protection for areas exposed to damage by moveable equipment or to abusive conditions such as exist in hospitals.
CCC-C-417c	Cloth shall be coated on one side. Coated cloth shall have glazed or satin finish, without pattern.	Color (1) - to match White No. 70001, Green 70167, Red 70042, or Yellow 70205 (3). Colorfastness - "good" (5651-5660). Red shall show "fair" in 5660.	Cloth shall show no cracking or flaking (4.3.1). Cloth shall be nontoxic to personnel.	Intended Use - For table and shelf covers.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min W	Flame Resistance (5903) After Flame sec. min F	Flame Resistance (5903) Char length Max" W	Flame Resistance (5903) Char length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated (Rubber and Plastic) and Plastic Sheeting for Hospital Use ZZ-C-450b																			
Type I- Cotton or synthetic cloth (rubber coated both sides)	Woven cotton or synthetic fiber.	Natural or synthetic rubber or a mixture of the two; pigmented			(1)	50	50			25 lb. 5 min.								7.0 min.	
Type II- Cotton or synthetic cloth (vinyl coated both sides)	"	Vinyl-chloride polymer or copolymer, plasticized; pigmented			(1)	50	50			25 lb. 5 min.								7.0 min.	
Type III- Plastic unsupported film (sheeting) Class 1- 0.004" thick Class 2- 0.006" thick		Film shall conform to Type I, class 2 of L-P-375, except that plasticizers other than phosphate and pthalate may be used.			(1)			200 (lb/in. of thickness)	200										
Color 1- Clear (Types II & III only) Color 2- Black (All Types) Color 3- White (All Types) Color 4- Maroon (All Types)																			

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
ZZ-C-450b Type I Type II Type III Class 1 Class 2 Color 1 Color 2 Color 3 Color 4	Type I- Uniformly coated on both sides and dusted with talc. Coated cloth shall be vulcanized. Type II- Uniformly coated on both sides. Type III- Sheeting shall be constructed from unsupported film.	Color (1) - to match cable number of Fed. Std. 595 or approved color standard (3).	(4) Thickness: Types I & II: 0.013-0.018 in. (5030). Cloth shall show no softening, tackiness, hardening, peeling, or blistering when exposed to phenol. Type III shall not decrease in weight more than 4%. "Good" fastness to crocking. Same after exposure to alcohol. Type I shall show the same results when exposed to accelerated aging. Volatility: Type II- 2% max. Type III, Class 1- 7½%; Class 2- 9% max. Types I & II shall show no softening, tackiness, hardening, peeling, or blistering during steam sterilization. "Good" fastness to crocking.	Intended Use - For the protection of mattresses on hospital beds.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903)				Flexibility Cm. Max. (5204)		Bursting Strength Psi Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
											After Flame sec. min		Char Length Max"						
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Cloth, Glass, Coated, (For Membrane Waterproofing and Built-Up Roofing HH-C-466b	Glass fiber. Thread count: 10-24 yarns per inch in both warp and fill.	Uniform resin coating compatible with asphalt or coal-tar base compounds.	1.5	5.2	36 (+1½ -½)	75	75												
					Cloth shall also be available in widths from 2-45 in. in increments of 1 inch.														

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
HH-C-466b	Glass fiber shall be acid resisting, shall not rot or decay and shall show min. capillary and wicking action.		Mock or woven selvage on each side (or one of each on either) or no selvage at all. Selvages shall be 1/8 - 1/2 in. wide. Cloth shall not crack (4.4.1). Weight of dry base cloth: 1.2-2.4 oz. Weight of organic coating: ratio of coating to cloth - 0.593-1.00. Volatile matter content: 3.8% max.	Intended Use - In membrane waterproofing and built-up roofing.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	F	Char Length Max" W	F	Flexibility Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts. Min (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Tracing, Sensitized DDD-C-471c																			
Types: I- Photographic II- Diazotype III- Brownprint IV- Blueprint Subtypes: A- Sensitized matte surface, smooth back B- Sensitized matte surface, matte back C- Sensitized smooth surface, matte back Classes: 1- Projection, Photographic 2- Contact, Photographic 3- Wash-off, Photographic 4- Diazotype, Ammonia process 5- Diazotype, Moist process Colors: A- White cloth B- Blue cloth Styles: 1-A- Black line 1-B- Sepia line	Cloth of woven, cleaned cotton fibers, free from waste, knots, or other defects of manufacture. Cloth shall not be damaged by normal handling. Thread count: 90 threads/inch in the warp; 85 threads/inch in the fill. Weave shall conform to CCC-C-531.	Type I, Class 1, 2 and 3 cloth and Type III & IV cloth shall be coated or impregnated with a cellulose dope or lacquer, or other polymer, to render base cloth water resistant and to inhibit dimensional changes caused by processing.				(1)													
						(5102) 65 (lb/2")		45											

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
DDD-C-471c Types: I II III IV Subtypes: A B C Classes 1 2 3 4 5 Colors A B Styles 1-A 2-B	Coatings shall adhere to base cloth & shall not strip from cloth during processing. Sensitized cloth shall be free from pinholes, scratches, abrasion marks, coating streaks, spots & areas of higher or lower sensitivity than surrounding areas. Sensitized cloth shall have a matte surface on one or both sides (1) that will be suitable for accepting pencil and ink lines, yielding solid lines without skipping, feathering, or smudging. Surface shall have suitable erasing qualities. Curl of full processed prints of all types of cloth shall not curl more than 25 mm.	Color - A cloth shall be white. B cloth shall have uniform bluish tint.	Cloth shall be furnished in a thickness of 0.0042 ±0.0002 in. including coating. Thickness shall not vary ± 20% from thickness specified. Fully exposed & processed cloth shall resist chipping, flaking, and crazing (4.4.9). See specification for special instructions & requirements. All types of sensitized cloth shall be capable of producing a final reproduced copy that is clear and legible. Cloth shall have clear, even backgrounds, free from mottle, spots, or other defects which would make prints unsuitable for purpose intended.	Intended Use - In the making of photographic enlargements or reductions of original drawings and tracings, and for making reproductions of original drawings and tracings.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Nylon, Coated; Waterproof and Flame Resistant CCC-C-00480 (GSA-FSS)																			
Type I- Light weight								(5134)		(5516)									
Class 1- Coated with chloroprene	Bright, continuous filament nylon. Use of regenerated nylon is prohibited. Plain weave. Yarns/inch: 38 in warp & fill. Weight: 2 ± .10 oz. Breaking strength: 90 lb. in warp and fill.	Suitable compounded chloroprene rubber.	6±.25		(1)	120	120	15	15	20							no crack break or flake		4
Class 2- Coated with vinyl chloride polymer or copolymer resin		Suitable polymer or copolymer of vinyl chloride resin properly plasticized.	6±.25		(1)	120	120	15	15	20									4
Type II- Heavy weight																			
Class 1- Coated with chloroprene	Bright, continuous filament nylon. Use of regenerated nylon is prohibited. Plain weave. Yarns/inch: 22 in warp & fill. Weight: 5.5± .14 oz. Breaking strength: 180 lb. in warp and fill.	Suitable compounded chloroprene rubber.	15±.5		(1)	225	220	45	45	40							no crack break or flake		4
Class 2- Coated with vinyl chloride polymer or copolymer resin		Suitable polymer or copolymer of vinyl chloride resin properly plasticized.	15±.5		(1)	225	220	45	45	40									4

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-C-00480 Type I Class 1 Class 2 Type III Class 1 Class 2	Finished cloth shall be smooth & flexible & shall not become sticky or tacky. When flame resistant cloth is specified, coating shall be treated with or contain an evenly disposed inhibition or flame retardant, which shall be nontoxic, nonirritant, & free from objectionable odor. When flame resistant treated, cloth may weigh an additional 2½ oz/sq yd. pH: 5.0 - 9.0 (2811).	Color - Unless otherwise specified, color shall be natural, sea blue, orange-yellow, tan, and olive green (1). Colorfastness - "good" (5660-5651-5630-5804).	Shrinkage: 1% max. (5552). Accelerated aging: Class 1 shall not become stiff or brittle, soft or tacky, and shall not crack. Class 2- coating shall retain 75% min. of its breaking strength (5804), and shall not crack. Coated surfaces shall not adhere, become tacky, or show signs of exudation or loss of flexibility (5[illegible]). Cloth shall show no leakage when grade 10 lubricating oil (Fed. VV-O-526) is held in a pocket of the cloth. Coated surface shall not crack upon bending after being immersed for 5 min. in hexane.	Intended Use - Class 1: for the making of waterproof tarpaulins & covers, & for use where extra low or high temperatures prevail. Class 2: for the making of waterproof or flame resistant tarpaulins & covers, & for use where extra low or high temperatures prevail.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5303)				Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
											After Flame sec.	min	Char Length Max"						
Cloth, Coated; Pyroxylin Coated CCC-C-501b			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Type I- (coated on one side) Class 1- 6.3 oz.	Cloth, cotton, sheeting, conforming to Type VII, Class 1 of CCC-C-[illegible] that cloth shall be desized and [illegible] and requirements for shrinkage & breaking strength shall not apply.	100% virgin cellulose nitrate, plasticized & pigmented.	6.3		(1)	50	40			(5516) no leakage									
Class 2- 7.7 oz.	Cloth, cotton, print conforming to Type II, Class 1 of CCC-C-[illegible]. See above for requirements & [illegible]	"	7.7		"	40	35			"									
Class 3- 12.0 oz.	Cotton sateen, desized & secured (6). Warp flush side shall be the face. Yarns/inch: 96 in the warp; 64 in the fill.	"	12.0		"	85	75			"									
Type II- (coated on both sides) Class 1- 15.5 oz.	"	"	15.5		"	110	100			"									

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-C-501b Type I Class 1 Class 2 Class 3 Type II Class 1	Type I- Coating shall be applied to face side of base cloth only. There shall be no striking through of coating to the back of the cloth. Grain shall match grain std. Type II- Coating shall be applied equally to both sides of base cloth. Grain shall match grain standard.	Color - Type I, Classes 1 & 2, unless otherwise specified, color shall be natural. When color is specified, cloth shall be dyed in accordance with CCC-C-432. Color shall match approved standard shade (3). Type I, Class 3, color shall be dyed as specified in CCC-C-432. (3). Standard samples available. Type II, Base cloth shall be undyed (greige).	(4) Flexing resistance: no evidence of ink penetration through the coating of all Types and Classes (4.4.1). "Good" fastness to crocking in all Types & Classes (5651).	Intended Use - In the manufacture of footwear components and other similar items.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame Sec. min		Char Length Max"		Flexibility Cm Max. Warp (5204)	Bursting Strength Pts. min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W (5102)	F	W	F		W	F	W	F	70°F	-40°F		
Cloth, Coated, Window Shade CCC-C-521c, Amd. 1	Commercial window shade griege goods. Yarns/inch: for widths up to 63 in. 68 in warp & fill; for widths 63 in. and over-56 in the warp, 52 in the fill.	Impregnating compound shall be polymerized or copolymerized vinyl chloride resin, plasticized with phosphate or phthalate ester plasticizers; exclusively pigmented. No starches, dextrines or other water soluble sizing or filling compounds, or water soluble flame retardants shall be used.	4.8	-	(1)	50	40	12	10		2	2	5½	5½	17-23			No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-C-521c	Both sides of base cloth shall be impregnated. When window shade is specified for blackout purposes, the diffuse luminous transmission of a single layer of cloth shall average no more than 0.001 of 1%. No area of the cloth shall transmit more than 0.003 of 1%. The cloth shall have no pinholes or streaks.	Color - Shade shall be furnished in the following solid colors or 2 color combinations (dark on one side & light on the reverse side)(1): Black white, green, light ecru, dark ecru; green/white, green/light ecru; green/dark ecru. Standard samples available. Colorfastness - "good" (5660), "pass" (bleeding and streaking - 4.4.1).	(4) Resistance to cracking: "pass". (4.4.1).	Intended Use - Used in the manufacture of Window Shades in accordance with Fed. Spec. DDD-S-251.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W/F	Tearing Strength Lb. (5132) W/F	Hydrostatic Pressure High (5512) W/F	Flame Resistance (5903) After Flame sec. min	Flame Resistance (5903) Char Length Max" W/F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Plastic Sheet; Polyethylene, Laminated, Nylon Reinforced L-P-00524 (GSA-FSS)															
Type I- Regular duty							(ASTM D) (1922-61T)	Peel strength 1-inch strip lb., min. room temp.	-20°F						
50 in. x 100, 200 yd.	Non-woven nylon 66 (polyamide type 66) multifilament yarn, 100 denier, min. Yarn to be arranged so that there will be 30 yarns/lin. ft. min. in both width and length directions.	Polyethylene bonded with elastomeric base adhesive. See Type I of L-P-378.	50				100 100	3.25	no peel				90		
50 in. x 100, 200 yd.			50				100 100	3.25	4.50				77		
50 in. x 100, 200 yd.			50				100 100	4.00	7.00				80		
50 in. x 100, 200 yd. (Rolls)			50				100 100 (after tear started)	4.00	7.00				85		
Type II- Heavy duty Class 1- Without grommets Class 2- With grommets															
6x8 ft.	"	High density polyethylene bonded with elastomeric base adhesive. See ASTM D2103-62T.	6 ft.				100 100	5.00	6.00				90		
10x12 ft.			10 ft.				100 100	5.00	6.00				90		
12x12 ft.			12 ft.				100 100	5.00	6.00				90		
12x15 ft.			12 ft.				100 100	5.00	6.00				90		
16x16 ft.			16 ft.				100 100	5.00	6.00				90		
20x20 ft. (flat sheets)			20 ft.				100 100 (after tear started)	5.00	6.00				90		

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
L-P-00524 Type I 50 in. x 100 50 in. x 100 50 in. x 100 50 in. x 100 Type II Class 1 Class 2	Material shall be a 3-ply laminate formed by bonding nylon yarn between 2 sheets of polyethylene. Each ply of polyethylene shall be 0.0015 in. min. thick. There shall be some slippage of the nylon yarn when laminate is subjected to a tearing stress.	Color - Clear both sides. Black both sides. White both sides. Black & white reversible "	Seam shear strength, 1 in. seam, room temperature, lb. min.: Type I 12 lb.; Type II- 16 lb. (ASTM D 1683-59T). Folding endurance (1 kg tension) cycles, min.: 30 x 10^{-4} (UU-P-31). Type II, Class 2 sheet shall be provided with metal grommets of Type I, Class 1 of MIL-G-16491. They shall be placed 3 ft. apart & not less than ½ in. from the edge at the sheet periphery. They shall be clinched tightly & installed in prepunched holes without cutting the cloth. Force to pull out grommets: 95 lb. min., Type II. (Fed. Std. No. 406, Method 1013, procedure A).	Intended Use - As protective covers for supplies loaded on railroad flat cars & open trailers, as a tarpaulin, as water barrier membrane in construction operation, as pit liner during evacuation work, & as a blanket for curing highway concrete. They are used as painter's drop cloth and vehicle covers also.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec.	Flame Resistance (5903) Char Length Max" min	Flexibility Cm. Max. Warp (5204) W	Flexibility Cm. Max. Warp (5204) F	Bursting Strength Pts. Min. (5122) 70°F	Bursting Strength Pts. Min. (5122) -40°F	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth, Tracing CCC-C-531e																		
						(5102) Opacity, %, max. Initial		After Acc. Aging										
Type I- For ink work	Plain weave cloth. Woven of cleaned yarns. Free from knots, floats, unsightly slubs and misweaves. Yarns/inch: 90 min. in the warp; 85 min. in the filling.	Applied to give a clean, complete, even, and unbroken surface, free from tears, holes, pinholes, wrinkles, or creases.				65	45	30		36								
Type II- For pencil work						65	45	40		48								
Type III- For both ink & pencil work (& moisture-resistant)						65	45	40		48								no cutting by pencil; no flaking after rubbing.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-C-531e Type I Type II Type III	Type I: highly glazed on one side & matte on the other. Ink shall adhere uniformly to matte side, & lines drawn shall show no spreading or feathering. Matte side shall also show satisfactory erasing. Type II: high glazed on one side & matte on the other. Matte side shall have suitable "tooth" for pencil work & erasing without smudging. Type III: matte surface on one or both sides (1). Ink: lines shall lose no density where tape is applied & tape shall come off clean without removing coating. Lines shall not smear, & erase easily without damaging coating. Pencil: no smudging. Shall leave no ghost or trace of lines when erased. Typing: typed characters shall be clear & distinct, & erase easily.	Color - Cloth shall be white or blue (uniform bluish tint) (1), each of a shade which will give satisfactory performance and conform to standard commercial practice.	Cloth shall be furnished in sheets & rolls (1). No appreciable yellowing, discoloration or change in appearance of the cloth that would cause the printing time to have to be increased on the diazo or blueprinting machine after exposure to accelerated aging & ultraviolet radiation. Heat resistance: there shall be no tackiness or sticking of the cloth. Type III: Water resistance- no stretching, wrinkling, deterioration, water spots, or opaque marks.	Intended Use - Type I: for the preparation of ink drawings of the finest character, from which photolithographs and blueprints of the maximum degree of legibility may be made. Type II: for the preparation of fine architectural and similar type drawings in pencil, using the matte side only, and from which good blueprints may be made. Type III: for the preparation of fine ink or pencil drawings from which photolithographs and blueprints of a high degree of legibility may be made. This type of cloth shall be used when a water-resistant quality is desired.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	Flame Resistance (5903) After Flame sec min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5372)
Cloth; Tracing, Printed CCC-C-536																			
Type I- Profile cloth Type II- Cross section cloth Type III- Logarithmic cloth Type IV- Plan profile cloth	Plain weave cotton, free from excessive number of imperfections of manufacture.	Applied to produce even, unbroken surfaces free from pinholes and other defects. Coating should permit use of drawing ink thereon, after 1 application of Fuller's earth or similar medium, without allowing ink to penetrate cloth.																	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-C-536 Type I Type II Type III Type IV	Highly glazed surface on one side, and dull finish on the other. Cloth shall have a bluish tinge, be highly transparent, and the dull side shall be capable of one complete erasure of black waterproof drawing ink lines and the redrawing of another set of lines on the same surface area without detrimental change in the character and quality of the lines or surface of the cloth.	Color (1).	Printing: to be done by the use of rollers or plates as the case may require. Printing shall be done on glazed side of cloth. Rulings: shall be commercially standard according to type.	

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Laminated. Cotton; Rubber or Synthetic Rubber Coated, Double Texture MIL-C-678A																			
Type I- Print to Print	Outer cloth shall conform to Type IV, Class 2, & inner cloth shall conform to Type III, Class 2 of MIL-C-299 (6). Copper content: 0.003% max. Manganese content: 0.0015% max.	Natural or synthetic rubber. Reclaimed rubber shall not be used. Base cloths shall be combined back to back with coating between the plies, then vulcanized. Face of the cloth shall be free from coating.	-	11.0	(7) 35 min.	100	60	40	25	80 (initial) 40 (after strength of coating) 40 (after low temp. resistance)					(0°F) 13.0 14.0 14.0 (after heat treatment)		10 (Initial) 8 (After water spray) 7.5 (After acc. aging)		
Type II- Twill to sateen	Outer & inner cloth shall conform to:			11.5	(1)	85	80	55	50	40 (initial) 20 (after low temp. resistance)								14	

	Outer	Inner
Weave	2/1 rt. twill	5-harness fill. sateen
Weight max.	3.2	3.3
Breaking- W	50	28
F	38	50
Yarns/in- W	70	86
F	66	98
Tearing- W	30	55
F	25	48

(6) Manganese & copper: same as for Type I.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-678A Type I Type II	When specified, cloth shall be made mildew resistant by impregnation with 1.35±.25% 2,2 methylene (bis-4-chlorophenol), (dihydroxychlorodiphenylmethane) using 2 bath aqueous or solvent application. Treated cloth shall not lose more than 10% of breaking strength in the warp. Type I: base cloth shall be given a suitable water repellent finish.	Color - Cloth shall be vat dyed Green OG 107 - standard sample shade available (3). Colorfastness - "good" (5651-5660-5610-5600-5630-5682).	(4) Water absorption: Type I- 0.30 grams max.	Intended Use - In the manufacture of wet weather clothing.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min W	Flame Resistance (5903) After Flame sec. min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Artificial Leather, Cloth, Coated, Vinyl Resin, (Upholstery) CCC-A-700e								(5136)											
					(min)														
Class 1- 15.0 oz/sq yd.	Option "a" sateen- 1.32 yd/lb.	When treatment (b) is not specified:	15.0	-	50	125	100	7	8	70								8	No. 3
	Option "b" sateen- 1.21 yd/lb.	virgin vinyl chloride polymer or virgin vinyl chloride acetate co-	15.0	-	54	125	100	7	8	70								8	No. 3
Class 2- 18.0 oz/sq yd.	Option "a" sateen- 1.12 yd/lb.	polymer. Materials	18.0	-	50	140	130	8	9	100								8	No. 3
	Option "b" sateen- 1.02 yd/lb.	containing mercurial compounds or water soluble in-	18.0	-	54	140	130	8	9	100								8	No. 3
Class 3- 20.0 oz/sq yd.	Option "a" broken twill- 1.14 yd/lb.	gredients shall not be used. When	20.0	-	50	120	120	8	9	100								8	No. 3
	Option "b" broken twill- 1.06 yd/lb.	treatment (b) is specified: coat-	20.0	-	54	120	120	8	9	100								8	No. 3
Class 4- 25.0 oz/sq yd.	Knitted- 6.70 oz.	ing compound shall conform to CCC-D- 950, 3.2.3.1, when inhibitor (e) is	25.0	-	54	110	100	20	20	100								8	No. 3
Class 5- 29.0 oz/sq yd.	Chafer duck- 11.65	used. When other inhibitors listed in CCC-D-950 are	29.0	-	54	140	140	16	16	100								8	No. 3
Class 6- 40.5 oz/sq yd.	Chafer duck- 11.65	used coating compound shall conform to 3.2.3.1,	40.5	-	54	140	140	18	18	100								8	No. 3
Class 7- 18.0 oz/sq yd.	Knitted- 5.20 oz.	and, in addition, only phosphate or phthalate ester	18.0	-	54	80	70	13	12	100								8	No. 3
Class 8- 10.5 oz/sq yd.	Grade B airplane cloth- 2.05 yd/lb.	plasticizers shall be used.	10.5	-	56	80	70	3.5	3.5	70								8	No. 3

(Continued)

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-A-700e Class 1 Class 2 Class 3 Class 4 Class 5 Class 6 Class 7 Class 8 (Continued)	Coated cloth shall be a base cloth coated on the face side. Grain shall match approved grain std.	Color - Shall match applicable color number of Fed. Std. 595 or other color standard or standard sample for color specified (1-3). Colorfastness - "good" (5651).	(4) Abrasion resistance: no visual loose fibers of base cloth shall be exposed in the center 1 in. of the abraded portion. Accelerated weathering (200 hours): no appreciable fading, discoloration, exudation, development of tackiness, or stiffness. Elongation: Class 4 & 7: 5% min. in the wales; 25% min. in the courses. Cold resistance at -20° ± 2°F: coating shall not crack through the base cloth (5874). Plasticizer loss (max.), activated carbon extraction: Classes 1-7 - 8%; Class 8 - 12%.	Intended Use - Classes 1 & 8: for applications where there is no great stress on the coated cloth; such as for flat upholstery (slip seats and other padded applications), headlinings, slipcovers, door panels, weather stripping, welting, and miscellaneous applications where properties of coating & decorative values are principal considerations. Class 2: for medium spring upholstery applications. Classes 3, 4, 5 and 7: for deep spring construction. Class 6: for exceptionally heavy-duty rugged service such as used in buses. (Deep spring construction is spring construction of a depth greater than 3 in.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	Flame Resistance (5903) After Flame sec min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Artificial Leather, Cloth, Coated, Vinyl Resin, (Upholstery) CCC-A-700e (Cont'd)																			
Treatments:																			
a. Fire resistant																			
(1) Regular										after accelerated aging shall be not less than 75%.		2	2	3	3			
(2) Special										initial (coated) after leaching resistance & accelerated aging shall not be less than 75%.	(after leaching)	2	2	3	3			
b. Mildew resistant	Base cloth or coating compound shall be treated with 1 of the inhibitors listed in CCC-D-950. When coating is treated, treatment shall be limited to inhibitor (e) (solubilized copper 8-quinolinolate). Amount of fungicide shall be based on total ave. weight of treated base cloth for base cloth treatment and on nonvolatile content of coating for coating treatment.									initial (coated).									
c. Oil resistant																			

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-A-700e (Cont'd) Treatments: a. (1) (2) b. c.	Reverse side of fire resistant treated coated cloth may be flash coated with the same coating compound used on the face. Weight of flash coating may not exceed 0.5 oz/sq yd. and shall be exclusive of min. coating weight listed.			Intended Use - For use in special installations (a). For use in unusually damp climates (b). For use where exposed to solvents and oil (c).

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903)				Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
											After Flame sec. min		Char length Max"						
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Duck; Cotton, Enameled CCC-D-741, Amd. 1	Cotton duck, double-filling (2-ply); Yarns/inch; 54(±1) in the warp; 29(±1) in the fill. Warp: singles, Fill: 2-ply.	Enamel, impervious to moisture.	22 (50") lin yd	-	50 min.	120	70												
Cloth, (Cotton Duck), Laminated, Synthetic Rubber Impregnated, Oil Resistant MIL-C-882B	Cotton, 8.0 oz/sq yd. min. Warp count (unvulcanized): 50 ± 1 threads/inch; fill count: 40 ± 2 threads/inch (unvulcanized).	Synthetic rubber of either of 2 classes: Class 1-compounds utilizing chloroprene as the basic material. Class 2-compounds utilizing a copolymer product of butadiene & acrylonitrile as the basic material.			(1)														

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-D-741	Coated on one side. Flexible without breaking enamel.	Color (1).	Permeability: hydrostatic range-0 - 20½ in. in 10 min. Cloth shall be thoroughly oxidized to prevent spontaneous combustion.	
MIL-C-882B			Form-Sheets, strips, or cut or molded items (1). See specification for applicable tolerances. Density: 67 lb/cu ft. min. See specification for load deflection limits and permanent set. Oil resistance: there shall be no delamination (4.4.5.2). The volume shall not swell more than 25% (4.4.5.2). There shall be no fungus growth (4.4.6).	Intended Use - For vibration attenuation.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min	Flame Resistance (5903) Char Length Max"	Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F		W F	W F	70°F	-40°F			
Poulin, Waterproof, Special Purpose, 10 Feet Long by 8 Feet Wide MIL-P-1956B																	
Class 1- Stitched and sealed seams	Cotton sheeting cloth, coating quality, Type VIII, Class 1 of Spec. CCC-C-432.	Compound for coating cloth & strapping material shall by synthetic rubber (except that use of natural rubber is permissible in anchor coat), plasticized & pigmented. Reclaimed rubber shall not be used.	12.5	16.0		(lot ave.) 65	55	25	20	(lot ave.) 30 (initial) 30 (after low temp. resistance) 30 (after weatherometer) 30 (after strength of coating)			(lot ave.) 11 (initial) 11 (after heat treatment) 11 (after water leaching)		(lot ave.) 6 (initial) 5 (after water spray)		No. 3
Class 2- Single stitched, laid in cement & strapped seams			12.5	16.0		65	55	25	20								No. 3
Class 3- Cemented seams			12.5	16.0		65	55	25	20	30							No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-P-1956B Class 1 Class 2 Class 3	Base cloth shall be coated on both sides with 8 ± 1 oz/sq yd. of coating compound. Face shall be coated with 6 ± ½ oz. of coating compound per sq. yd. Reverse shall contain balance of coating. After vulcanization, cloth shall be free from pinholes and shall contain no more than 5 windows/lin yd.	Color - Shall be OG-207 and shall match standard sample for shade.	(4) Abrasion: no loose fibers of base cloth shall be exposed in center 1 in. of abraded portion (4.4.5). Cloth and all sealed seams shall be dusted with whiting, talc, or other finely divided mineral material which does not support mildew growth, to prevent blocking.	Intended Use - As protective coverings for signal equipment.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max.	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	Flame Resistance (5903) After Flame sec min F	Flame Resistance (5903) Char length Max" W	Flame Resistance (5903) Char length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Bag, Waterproof, Clothing MIL-C-3108D (GL) Amd. 1																			
Class 1- Stitched & sealed seams	Shall be Type V, VI, VII, or VIII; Class 2; water repellent & mildew resistant treated coating quality cotton sheeting, conforming to Spec. CCC-C-432, except that soil burial test for mildew resistance is not required.	Synthetic rubber, pigmented to produce Olive Green 207, except that natural rubber is permissible in the anchor coat. Use of reclaimed rubber is prohibited.	7.5	12.0		40	45	800 (gm w/NBS augmenting wt.)	640	(initial) 30 (after low temp. resistance) 30 (after weather resistance) 30 (after strength of coating) 30 (after solvent resistance) 30					(0°F) 8 8.5 (after heat treatment)	(initial) 8 (after water resistance)			
Class 2- Stitched shingled, laid in cement & strapped seams			7.5	12.0		40	45	"							"	" 6.5			No. 2
Class 3- Cemented seams			7.5	12.0		40	45	"							"	"			No. 2
Cloth, Coated, Cotton (Creped, Phenolic Resin Treated) MIL-C-3154	Cotton sheeting (40"- 3.75- 48 x 40 grey goods)	Thermosetting phenolic resin																	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-3108D Class 1 Class 2 Class 3	Coated on one side. Coated side dusted with whiting, talc, or other finely divided mineral material that does not support mildew growth to produce a uniform dull finish. To match standard sample in finish. After curing, coated cloth shall be free from pinholes & shall contain no more than 5 windows/lin yd.	Color - Shall be Olive Green No. 107 (base cloth) and Olive Green No. 207 (coating).	(4) Low temperature resistance: "pass" (4.4.2). Water resistance, spray method: "pass" (4.4.5). Water resistance: "pass" (4.4.3). Strength of coating: "pass" (4.4.4). Water resistance (spray absorption method): 20% max. (4.4.14).	Intended Use - For carrying rations, extra clothing, & personal effects that must be protected from moisture. Also as a carrying bag in conjunction with bag, sleeping, arctic & bag, sleeping, mountain. Bag is not constructed to withstand rough use or handling.
MIL-C-3154	Creped after resin treatment to increase number of picks & ends per inch not less than 15% of original construction of untreated cloth.	Color (1).	Resin content: Rools- 43 ± 2%; individual test specimens: 43 ± 5% (4.4.2). Volatile content: 6-7% ave. (4.5).	Intended Use - In the fabrication of ogives for certain types of fuses.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min		Char Length Max"		Flexibility Cm. Max. Warp (5204)		Bursting Strength Psi Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Ponton Float (18-Ton, with Emergency Kit and Carrying Case) MIL-P-3671, Amd. 1	Cotton duck. Air chamber cutting discards may be used for chafing strips, repair kit pocket, & D-ring & lifting handle patches. Air chamber cloth-Yarns/inch: 18-22 in the warp; 18-23 in the fill. Weight: 17.25 - 19.8 oz. Breaking strength: 290 in warp and fill. Weave: approximately square. Bulkhead cloth-Yarns/inch: 31 in the warp; 26 in the fill. Weight: 105 oz. min. Breaking strength: 145 in the warp; 125 in the fill. Weave: approximately square.	60% neoprene by volume. Balance shall be softeners, curing agents, anti-oxidants & reinforcing material.																	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-P-3671	(a)Cloth shall be passed through a friction calender and given 2 friction passes on each side. It shall then be calender-coated each side with a coat gaging between 0.010-0.012 in. for air chamber cloth & 0.008 in. for bulkhead cloth. or (b)Cloth shall be dipped in a dispersion of neoprene latex & water & run through a drier. It shall be frictioned each side & calender-coated each side with a coating gaging between 0.010-0.012 in. for air chamber cloth & 0.008 in. for bulkhead cloth.	Color - Color of finished float shall be that formed by finishing compound.	Production test model to be approved. Coating compound-Tensile strength: 1800 psi min. Elongation: 500% min. Shall show no loss of tensile strength after 24 hours accelerated weathering. Max. loss of 10% tensile strength after 96 hours accelerated aging. Water absorption shall be held to a minimum. After fabrication, floats shall be vulcanized in a pressure-type oven or in a mold.	Intended Use - As a floating support for a division floating bridge.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5134) W	Tearing Strength Lb. (5134) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	Flame Resistance (5903) After Flame sec min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth, Coated and Laminated, Chloroprene on Nylon MIL-C-5302B																			
Type I- Single ply, one side coated	Rip-stop nylon, conforming to Spec. MIL-C-7020, Type I, except that specified air permeability, permanence of finish, and oven aging shall not be required.	Suitably compounded chloroprene rubber. Coating compound shall not contain ingredients known to promote skin irritations or have a detrimental effect on nylon.	3.00 ±0.35	36 ±½		45	45	2.5	2.5	50									3
Type IA- Single ply, both sides coated			4.00 ±0.25	36 ±½		55	55	2.0	1.5	50									3
Type II- Double ply, laminated, one side coated			5.25 ±0.4	36 ±½		90	90	4.0	4.0	80									3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-5302B Type I Type IA Type II	Type I- coated on one side. Type IA- coated on both sides. Type II- 2 layers of base cloth, laminated, and coated on one side.	Color - Types I & II- unless otherwise specified, color shall match Orange Yellow color No. 13538 of Fed. Std. No. 595. Type IA shall be Black and shall match color No. 37038 of Fed. Std. No. 595.	Finished cloth shall not crack or flake when tested at -67° ± 2°F. Finished cloth shall not block, become tacky, or show signs of exudation when tested at 170° ± 2°F. (4.2.3.1 & 4.2.3.2). Flexibility- "pass" (4.2.3.3).	Intended Use - In the manufacture of anti-exposure coveralls for flying personnel.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min		Flame Resistance (5903) Char Length Max"		Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Cloth, Laminated and Tape, Coated Cloth, Natural Rubber on Cotton, Pneumatic Flotation Equipment MIL-C-6819C																			
Variety N- Two ply laminated cloth, 11.2 oz/sq yd.	Plain woven cotton cloth conforming to Spec. MIL-C-6320 Class 1 or 2 (1). Defect shall be market with single strand thread, which shall be visible after coating. Any defects shall permit uniformity of coating on the spreading machine.	Min. of 80% new plantation natural rubber by volume. Balance shall be softeners, curing agents, anti-oxidants and reinforcing materials. Pigmented, 100% of the pigment shall pass through a standard 325 mesh screen. Compounds shall not be injurious to base cloth, or contain ingredients which would bloom to the surface or adversely affect finished cloth. Compound shall cure properly & provide proofing films insoluble in water. Tensile strength- Initial: 2400 psi min. After heat aging: 45 max. Elongation: 500 min. (initial); 25 max. after heat aging.	10.3	12.1	(1)	(5102) 80 (initial) 76 (after heat aging) 76 (after Weather-ometer-100 hours)	80										5 (initial) 5 (after heat aging) 5 (after Weather-ometer-100 hours)	No. 2	
Variety O- Two ply laminated cloth, 18.8 oz/sq yd.			17.4	20.2	(1)	290 (initial) 280 (after heat aging) 260 (after Weather-ometer-500 hours)	290										5 (initial) 5 (after heat aging) 5 (after Weather-ometer-500 hours)	No. 2	
Variety R- Coated cloth tape, 7.7 oz/sq yd.			7.0	8.3	(1)												5		

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-6819C Variety N Variety O Variety R	Foundation compound, compatible with base cloth & coating compound shall be applied to base cloth to achieve required adhesion. Coating compound shall then be applied by a spread coating operation. Rubber coating shall be applied in sequence of operations, so that both sides of each cloth ply shall be coated & laminated. Pigment shall be incorporated in outermost coatings. Cloths shall be cured. Cured laminated cloths may be lightly dusted with talc or zinc stearate. Coated tape shall not be dusted. Tape shall have coating of high natural content rubber stock (pure gum rubber) calendered on one side. Coating shall not be fully cured. Protected by suitable liner. Edges of tape shall be smooth.	Color (1)- Usual colors chosen: Color No. 33538 Yellow (usually on straight ply side) Color No. 36231 Gray (usually on bias ply side); Color No. 35109 Blue (usually on bias ply side). Pure gum rubber coating of tape, which is not fully cured, shall not be pigmented. Opposite side shall match one of above colors.	See specification for construction and weight distribution table. Material offered for acceptance shall not be more than 90 days old. Laminated cloths- Cloths shall not have become stiff & brittle or soft & tacky after heat aging (5850). Cloths shall not become discolored or brittle after weather-meter exposure (5804). Slight blooming shall be permissible in exposed Variety N. Cloths shall show no signs of cracking after low temperature exposure (4.6.11). Cloths shall not become tacky or adhere to themselves after high temperature exposure (4.6.12). Permeability to hydrogen: Initial: 8 l/m max.; after weathering: 10 l/m max.; after low temp : 10 l/m max.; after high temps: 10 l/m max. Permeability to helium (same conditions): 5.0; 6.3; 6.3; 6.3. No air leakage under pressure (4.6.13).	Intended Use - In the manufacture of pneumatic life rafts, airplane flotation equipment and similar equipment.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min.		Flame Resistance (5903) Char Length Max"		Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. lbs. (5122)	Adhesion lb/2" wide 5970	Blocking Seals rating 5872
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Cloth, Coated, Synthetic and Fibrous Glass MIL-C-7514A (USAF) Amd. 1								(5134)											
Type I- Cloth, glass vinyl coated (non-porous)	Types I & III: continuous multi-filament glass. Type II: copolymer of vinyl chloride and acrylonitrile. Plain (1/1) weave.	Suitable compounded vinyl resin, properly plasticized & pigmented.	7.0 ±0.5		(1)	130	110	3	3		2	2	2.3	2.3	Time of glow				
											3	3							
Type II- Cloth, vinyl resin, vinyl coated (non-porous)		"	7.0 ±0.5		(1)	130	110	3	3		2	2	2.3	2.3	Time of glow				
											3	3							
Type III- Cloth, glass, vinyl coated (porous)	"	"	5.5 ±0.5		(1)	180	175	5	5		2	2	2.3	2.3	Time of glow				
											3	3							

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-7514A Type I Type II Type III	Coating shall be applied to both sides of cloth, so that no bare threads show & it thoroughly impregnates the base cloth. Unless otherwise specified, coating applied to Types I & II shall be heavier on the face than on the back. Waterproofness: Types I & II shall show no signs of leakage through the unabraded portion, & no more than 5 ml. of water shall pass through the abraded portion (5516).	Color (1) - Shall be incorporated in the coating material. Colorfastness - Type III: "good" (5660-5651); "fair" (5651-wet).	Type III: Thread count: 35 yarns/in. in the warp; 30 yarns/in. in the fill. Air permeability: 150-225 $ft^3/min/ft^2$. All types: Coating shall not crack, break, or become tacky. (4.5.2). Cloth shall not crack upon creasing in the presence of aromatic hydrocarbon-fluid (4.5.3). Cloth shall be non-corrosive to aluminum (4.5.4). Abrasion resistance: 500 cycles (min) shall be required to rupture 1 thread of base cloth (5306). Color of cloth shall not change in cleaning & cleaned area shall exhibit no tackiness (4.5.9). Cloth shall not lose more than 15% of its original breaking strength & shall not crack when folded sharply upon itself or show signs of blooming or material color change after exposure to heat & light after accelerated weathering (4.5.6).	Intended Use - In the manufacture of aircraft insulation & acoustical & sound proofing blankets.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated, Asbestos MIL-C-7637B (ASG)								(5134)											
Type I- Plain	Yarn, with min. asbestos content of 75%. Asbestos made from commercial grade chrysotile asbestos.	Suitably compounded chloroprene polymer.	4.5 lb.	-	36 ±0.5	215	120	17	12		0	0	0	0			260	9	No blocking
Type II- Reinforced with wire	No filling material except organic fiber. Weight: Type I- 29 ± 2 oz/sq yd; Type II- 30 ± 2 oz/sq yd. Yarns/inch: Type I- 20 in the warp & 10 in the fill; Type II: 14 in the warp & fill. Type II: each yarn shall have a single brass wire insert. Wire shall be drawn from alloy conforming to composition B (70% copper, 30% zinc) of Spec. QQ-W-321. Diameter shall be 0.008 ± 0.001 in.	"	4.75 lb.	-	36 ±0.5	165	150	16	12		0	0	0	0			210	9	No blocking

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-7637B Type I Type II	Coating shall be applied & vulcanized on both sides, approximately equal thickness on each side & sufficiently thick to insure nonfraying of asbestos cloth. Surface of coated cloth may have a slightly pebbled grain.	Color - Shall be Black & shall be an approximate match to Shade No. 514 of ANA bulletin No. 157. An inorganic powder which is applied to the surface & which can be removed by rubbing with a damp cloth shall not be cause for rejection.	Thickness: 0.060 - 0.080 in. Coating shall not crack or flake off in low temperatures (5874). Finished coating shall not crack in heat (4.6.3.2).	Intended Use - As fire seals, gaskets, and other applications where a flexible material, highly resistant to elevated temperatures and flame, is required.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated, Cotton, Twill Weave, 1 Side Vinyl Resin Coated MIL-C-7642 (USAF) Amd. 2								(5134)											
Type I- Aluminum color coating	Greige undyed cotton twill, napped on one side. Weave: 3/1 right hand twill with 2 warp ends weaving as 1.	Vinyl resin compounded with pigments.	14.0	16.0	(1)	130	90	6	6										No blocking
Type II- Olive drab color coating			14.0	16.0	(1)	130	90	6	6										No blocking

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-7642 Type I Type II	Coating shall be applied to unnapped side. Use of dyestuffs, detergents, or other chemicals or finishing agents which would cause deterioration in storage or dermatitis on prolonged intimate skin contact is prohibited. pH: 6.0 - 8.0 (2811).	Color - Type I: Aluminum (to produce bright reflectance, equal to standard sample). Type II: Olive Drab (to match shade 34087 of Fed. Std. 595).	Coating shall not crack or become soft or tacky in the presence of aromatic hydrocarbon (4.5.3). Min. 2000 wear cycles shall be required to wear 1/16 in. hole in coating (5306). Coating shall not crack or break (4.5.2). Cloth shall contain no materials or impurities that would cause crazing or discoloration of transparent molded plastic sheet. Cloth shall show no signs of cracking or blooming and shall lose not more than 10% of tearing strength after accelerated weathering (4.5.5). Tolerance ± 3/4" on 36" or less width. Tolerance ± 1¼" greater than 36".	Intended Use - In the fabrication of covers for molded plastic parts such as aircraft turrets, canopies, and equipage items.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Min	Flame Resistance (5903) Char Length Max"	Flexibility Cm. Max. Warp (5204)	Bursting Strength Psi Min (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F		W F	W F	70°F	-40°F		
Cloth, Coated, Rubber, Nylon Base MIL-C-7966A, Amd. 1																
Variety S- Spray shield cloth 3 oz/sq yd.	Variety S: rip-stop woven nylon conforming to Type I of Spec. MIL-C-7020, except that colorfastness, air permeability, & permanence of finish requirements need not apply. Silicone oil shall not be used on the cloth.	New plantation natural or synthetic rubber.	-	3.0	(1)	50	50	(grams) 450	350	15 (initial) 12 (after cold effect test)					3.5	No. 2
Variety P- Paulin, cloth, 6.75 oz/sq yd.	Bright, high tenacity multifilament polyamide (from hexamethylene diamine and adipic acid or its derivatives). Weave: warp face 4/1 5-harness sateen with a counter of 3. Weight: 3.5 oz/sq yd. max. Suggested thread count: 174 x 86 or 177 x 89.	"	-	6.75	(1)	200	150	2000	1000	15 (initial 12 (after cold effect test) 12 (after abrasion)					3	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-7966A Variety S Variety P	Uniform coating of 2 or more layers of rubber shall cover back of base cloth. An adhesive may be used to obtain required coating adhesion. Antioxidant may be incorporated in rubber to retard aging effects. No materials injurious to cloth or which might be water soluble after vulcanization shall be used. Fillers and vulcanizers shall be sufficiently fine so that a uniform product will be produced. Compound should cure properly and provide proofing films suitable for retaining water. Potability of water coming in contact with coating shall not be affected. pH: 6.5 - 8.0	Color - Base cloth: Variety S- Cloth shall be yarn or piece dyed. Face shall be a daylight fluorescent red conforming to spectrophotometric requirements in the Spec. Variety P- same. Finished cloth: surface of rubber shall be pigmented to match lusterless (blue) color No. 35042 of Fed. Std. 595.	Time elapsed from date of application of coating (stamped at end of roll) and date of delivery shall not be more than 10 weeks. Cloth shall not crack or flake when subjected to cold effect (4.7.6.1). Cloth shall not crack when folded sharply on itself, and coating shall show good colorfastness after accelerated weathering (4.7.8). Sewing qualities shall be such that there shall be no excessive needle gumming, needle breakage, or thread breakage during sewing (4.7.9).	Intended Use - Variety S: in the manufacture of spray shields for PK-2 pararafts covered by MIL-K-8664 (Aer). Variety P: in the manufacture of life raft paulins covered by MIL-P-7967 (Aer).

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Min W	Flame Resistance (5903) After Flame sec. Min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp 70°F	Flexibility Cm. Max. Warp -40°F	Bursting Strength Pts. Min (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated, Nylon, Rubber Coated, Fuel-Re.istant MIL-C-8068B (ASG)																			
Type I- Cured Base cloth- Type II of MIL-C-7020 Gages: 0.010" 0.013" 0.017" 0.020"	Types I & III: Type II of MIL-C-7020 except that air permeability and permanence of finish requirements shall not apply.	Cured rubber shall not blister or crack: Original-hardness- Type I: 35 ± 5 pts.; Type II: 60 ± 5 pts; Type III: 45 ± 5 pts. Tensile strength- 1000 psi; 1500 psi; 1200 psi. Elongation- 700% min; 400% min; 500% min. After air aging (change)- hardness- -10% ± 15% ± 10% max. Tensile strength: -35% -15% -30% max. Elongation: -50% -60% -60% max. After Type I fluid aging- Tensile strength: +20%; +25%; ±10% change. Elongation: ±10%; ±15%; ±10% max. change. Volume swell: -15%; -10%; -10% max. See spec. for changes after Type III fluid aging.	36 min.												125 (initial) 125 (after air aging) 125 (after fluid aging)	4 lb/in	
Type II- Cured Base cloth- Table I Gages: 0.025" 0.050"	Type II: Thickness- 0.013 ± 0.002 in. weight- 5.5 ± 0.5 oz/yd². Breaking strength: 300 lb. in warp & fill. Tear strength: 20 lb. in warp & fill. Thread count: 90 yarns/inch in warp & fill.		36 min.														500 (initial) 500 (after air aging) 500 (after fluid aging)	4 lb/in	
Type III- Uncured Base cloth- Type II of MIL-C-7020 Gages: 0.012" 0.018"			36 min.														125 (initial) 125 (after air aging) 125 (after fluid aging)	4 lb/in	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-3038B Type I Type II Type III	Cloth shall be coated on both sides. Cloth shall not be injurious to any surface with which it should come into contact. It shall be free from pinholes and other defects which might adversely affect the serviceability of the finished product.	Color - Unless otherwise specified, color shall be Black.	Coated cloth shall not break, crack, or separate from its backing when flexed after low temperature exposure. See spec. for table of low-temperature flexibility conditioning. Rate of diffusion of Type III fuel of spec. MIL-S-3136 through cloth shall not exceed 2 fluid oz/sq ft per 24 hours.	Intended Use - As fuel metering diaphragms on aeronautical equipment, or any other application where a fuel-resistant, rubber-coated cloth is necessary.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated, Nylon Twill, Vinyl Coated Both Sides MIL-C-8077	Nylon; 2/1 twill. Weight: 1.6 oz. max. Thickness: 0.0042 in. max. Breaking strength: 50 lb/in in warp and fill. Tearing strength: 4 lb. min. in warp and fill. Ultimate elongation: 14% in warp and fill. pH: 5.0 - 9.0	Suitably compounded polymer or copolymer vinyl resin.	3.25 ±.25		36 ±½	60	60	(5134) 2	3										
Cloth, Coated, Nylon, Buna N Coated, 1 Side MIL-C-8135A (OSAF)	Nylon: polyamide from hexamethylene diamine & adipic acid or its derivatives. Melting pt: 482° ± 10°F. Weave: plain (1/1). Weight: 7.25 oz/yd² max. Yarn ply: 2x2. Yarns/inch: 60 in the warp; 45 in the fill. Breaking strength: 325 in the warp; 275 in the fill. Tearing strength: 20 in the warp and fill. Shrinkage: 2% max. in warp & fill.	Buna N synthetic rubber.	-	12.7	38 ±1	450	350	(5134) 20	20									12	No blocking

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-8077	Cloth shall be evenly and entirely coated on both sides. Use of detergents, dyestuffs, or other chemicals or finishing agents which would cause deterioration in storage or dermatitis on prolonged skin contact is prohibited.	Color - Unless otherwise specified, color shall be Blue on one side and Yellow on the other to match approved standard shades.	Flexibility: acute angle formed by coated cloth and the horizontal shall be not less than 80°. Cloth shall not flake or crack at temperatures of -65°F. Cloth shall not show tackiness, blistering, or softening after 24 hours at 160°F. Cloth shall be impervious to water under static head of 20½ in. for at least an hour.	Intended Use - In the construction of spray shields for life rafts.
MIL-C-8135A	(6) Cloth shall be evenly & entirely coated on 1 side. pH: 5.0 - 9.0 (2811).	Color - Base cloth shall be natural in color, unless otherwise specified. Color of coating shall be Black.	Thickness: 0.0155±0.0015 in. Elongation: 35% min. in the warp; 30% min. in the fill. Cloth shall not crack or flake at low temperatures (4.3.2.4). Cloth shall show no tackiness, blistering, or softening at high temperatures (4.3.2.5). Cloth shall retain 95% min. of breaking strength after accelerated aging & coating shall show no signs of blooming, blistering or cracking (5804). Cloth shall show no signs of leakage through unabraded portion and not more than 5 ml. of water shall pass through abraded portion (4.3.2.6).	Intended Use - In the manufacture of survival containers.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Psi Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Asbestos, Glass, Cotton, Aluminized MIL-C-8240B (USAF)																			
Type I- 9.2 oz.	Type I: 55% min. asbestos; 18% max. cotton; 27% min. glass. Fill- 2-ply, 1 end asbestos-cotton yarn (Underwriter's grade) & 1 end continuous-filament glass yarn. Type II: 53% min. asbestos; 16% max. cotton; 31% min. glass. Fill: 3-ply, 1 end asbestos cotton yarn (Underwriter's grade) & 2 ends continuous-filament glass yarn. Both Types: Warp-100% continuous-filament glass yarns. Weave: 2/1 right twill.	Aluminum	11 ± 2		(1)	90	70	(5134) - 6											No blocking
Type II- 10.0 oz.		Aluminum	12 ± 2		(1)	90	95	- 6											No blocking

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-8240B Type I Type II	Coating shall be directly adhered to warp face of base cloth by an adhesive. After application, coat shall have a smooth and highly reflective finish.		Cloth shall not crack at low temperatures (4.5.3.1). Flexibility: cloth shall show no signs of cracking (4.5.3.2). Coating shall show no signs of separation from base cloth (4.5.3.3). Metalized coating shall not crack, flake, blister, or peel during or after preflex, exposure to the globar, or the postflex (4.5.3.4). Yarns/inch: Type I- 60 in the warp; 40 in the fill; Type II- 60 in the warp; 32 in the fill.	Intended Use - In the manufacture of protective clothing used in fire fighting garments.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)	Width Inch	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5132)	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min	Flame Resistance (5903) Char Length " Max	Flexibility Cm. Max. Warp (5204)	Bursting Strength P.S.I. Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
			Min / Max		W / F	W / F (5134)		W / F	W / F	70°F / -40°F			
Cloth, Laminated, Sateen, Rubberized MIL-C-9074 (GL)	Cotton, 5-harness sateen conforming to MIL-C-10296. Filling effect side shall be the face.	Natural or synthetic rubber or mixture of both. Pigmented. Reclaimed rubber shall not be used.	23.5±1.5	(1)	190 140 (initial) 15% 15% (loss after acc. aging max.)	7.5 5.0	40 (initial) 30 (after acc. aging) 30 (after low temp. resis.)					7 (initial) 5 (after acc. aging) (min. warp only)	
Cloth, Laminated and Coated for Waterproof Containers MIL-C-10351B (GL)													
Type I- Throat cloth, 2-ply	Type I: nylon twill, conforming to Type I of MIL-C-577.	Natural or synthetic rubber or mixture of both. Pigmented. Reclaimed rubber shall not be used.	8.0 12.5	(1)	(5102) 90 90 (initial) 70 70 (after weather-ometer)	576 384 (grams)	100 (initial) 50 (after weather.) 80 (after low temps.)			15 20 (-65°F)		6 (surface coat) 6 (ply)	No. 1
Type II- Body cloth, 2-ply	Type II: nylon twill, conforming to Type II of MIL-C-577.	"	10.5 14.5	(1)	180 170 (initial) 160 150 (after weather-ometer)	1024 640 (grams)	175 (initial) 90 (after weather.) 140 (after low temps.)			17 21		6 (surface coat) 6 (ply)	No. 1

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-9074B	2 layers of sateen shall be joined back to back with rubber compound between the plies. Cloth shall then be vulcanized. No strike-through of compound to either outside surface of cloth.	Color - Base cloth: color suitable for complying with color requirement for laminated cloth. Laminated cloth: OG-107, unless otherwise specified. Standard sample available (3).	(4) Both selvages shall be trimmed to give straight, uniform, fully laminated edges.	Intended Use - In the manufacture of waterproof covers for electronic equipment. Also intended for use with drafting and duplicating equipment set for packing and storing of duplicator film.
MIL-C-10351B Type I Type II	Laminated coated cloth shall be 2-ply with rubber coating applied to both outside surfaces in equal amounts. Cloth shall then be vulcanized.	Color - Base cloth: any color. Coated cloth: unless otherwise specified color shall be Black.	(4) Cloth shall not become stiff & brittle or soft & tacky after weather-ometer (5804). Coating shall not crack or flake at low temperatures (5874). Abrasion resistance: no visible loose fibers in center 1 in. of abraded portion (5304). Both selvages shall be trimmed to give straight, uniform, fully laminated edges.	Intended Use - In the manufacture of Bag, Waterproof, General Purpose No. 160A.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min		Char Length Max"		Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Mattress, Pneumatic MIL-M-10747E			Min	Max		W	F (5102)	W	F		W	F	W	F	70°F	-40°F			
Class 1- Cemented seams, I-beam construction	Plain weave nylon; 70 denier, multifilament, semi-full, in warp & filling. Cloth shall not be calendered & shall have a permanent finish. It shall be heat set to prevent distortion. Weight: 2.0-2.3 oz. Yarns/inch: 106 in the warp; 92 in the fill. Breaking strength: 80 lb. in the warp; 60 lb. in the fill. Tearing strength: 3.5 lb. in the warp; 3.0 lb. in the fill. Shrinkage: 2% max. in the warp; 1.5% max. in the fill. Chloroform extract: 1% max. Copper content: 0.003% max. Manganese content: 0.0015% max. pH: 5.0 - 8.5.	Natural or synthetic rubber or mixture of both. Pigmented & heat-vulcanized. Reclaimed rubber shall not be used.	8.0	11.5		90	65	640 (grams)	512	No leakage					8	12		6	No. 1
Class 2- Molded seams, C-beam construction			8.0	11.5		90	65	640 (grams)	512	No leakage					8	12		6	No. 1

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-10747E Class 1 Class 2	Compound shall be applied to both sides of base cloth, & shall be distributed so that one side will have 1½ (±¼) oz/sq yd. & the other side will have the remainder. Coating shall be vulcanized and free from pinholes, windows, or other defects which might affect serviceability. Lightly coated, (Olive Green) surface shall have a dull finish produced by an inert mineral dusting powder.	Color - Base cloth: white. Coated cloth: coating on heavily coated side, which is to be on the inside of the mattress, shall be colored Black throughout. Surface color of lightly coated side shall correspond to Olive Green 207.	(4) Abrasion resistance: no visible loose fibers of the base cloth shall be exposed in the center 1 in. of the abraded portion (5304). No cracking, flaking, or peeling of the coating at low temperatures (5874). Cloth shall not become stiff and brittle or soft and tacky and there shall be no flaking, cracking, or peeling of coating after accelerated aging (5852).	Intended Use - In conjunction with arctic and mountain sleeping bags.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb.		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min		Char Length Max"		Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Cloth, Coated, Glass, Silicone Rubber-Coated MIL-C-10797B (GL)	Glass cloth conforming to Class C, Form 4, Cloth No. 128 of MIL-Y-1140.	Composition of a silicone rubber suitable compound. Pigmented.	18.0	21.0	36 min.	140 (5102)	120	6000 (grams)	6000	180 (initial) 170 (after acc. weather.)	13	13			11.5 (75°F)	12.5 (-60°F)			No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-10797B	Cloth shall be coated on both sides with equal amounts of compound. Coated cloth cloth shall be vulcanized.	Color - Color of coated cloth shall be Olive Drab 209. Standard sample available (3).	(4) Stiffness after heat stability: 15.0 cm. Abrasion resistance: coating shall not be worn through to base cloth (4.4.2).	Intended Use - In the manufacture of stovepipe shields for tentage.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	Flame Resistance (5903) After Flame sec min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp 70°F	Flexibility Cm. Max. Warp -40°F (5204)	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5672)
Cloth, Coated, Cotton, Vinyl Coated, Fire and Mildew Resistant MIL-C-10799E																			
Type I- Coated cloth								(5134)											
Class 1- Plain weave 7.0-8.5 oz	Plain weave cotton, 4½ oz., MIL-C-9231 Type I.	Olive drab shades; virgin vinyl chloride polymer or virgin vinyl chloride acetate copolymer. Fungicides or flame inhibitors containing mercurial compounds or water soluble ingredients shall not be used.	7.0	8.5	(1)	80 72 (after weather-ometer)	80 72	2	2									6	No. 2
Class 2- Basket weave 9.0-11.0 oz	Basket weave (4x4) cotton, 4½ oz., MIL-C-9231 Type II.		9.0	11.0	(1)	80 72 (after weather-ometer)	80 72	10	10									6	No. 2
Type II- Coated duck								(5132)											
Class 1- Army duck, cotton, plied 15.5-18.5 oz	Cotton army duck, 9.85 oz., CCC-C-419, Type III.		15.5	18.5	(1)	160 112 (after weather-ometer)	110 77	75	60		2	2	3.5	3.5	13	16		6	No. 3
Class 3- Army duck, cotton, plied yarns, 12.0-15.0 oz	Cotton army duck, 8.25 oz., CCC-C-419, Type III.	Other shades: Same requirements as for Olive drab shades, but only phosphate & phthalate ester plasticizers shall be used when base cloth is treated with inhibitor (a) specified in CCC-D-950. (6)	12.0	15.0	(1)	125 88 (after weather-ometer)	120 84	(5134) 3	3		2	2	3.5	3.5				6	No. 3
Class 4- Army duck, cotton, plied yarns, 18.0-21.0 oz	Cotton army duck, 12.29 oz., CCC-C-419, Type III.		18.0	21.0	(1)	210 147 (after weather-ometer)	130 91	5	5		2	2	3.5	3.5				8	No. 3
Class 5- Army duck, cotton, plied yarns, 22.0-25.0 oz	Cotton army duck, 14.77 oz., CCC-C-419, Type III		22.0	25.0	(1)	235 165 (after weather-ometer)	175 123	5	5		2	2	3.5	3.5				8	No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-10799E Type I Class 1 Class 2 Type II Class 1 Class 3 Class 4 Class 5	Either base cloth or coating compound shall be treated with solubilized copper-8-quinolinolate evenly dispersed, to deposit min. 0.18% copper as metal from copper-8-quinolinolate to max. 0.23% copper as metal from copper-8-quinolinolate. Amount of fungicide shall be based on total ave. weight of treated base cloth or on non-volatile content of coating (whichever is treated). This treatment can only be used for shades other than Olive drab when supplier can, in so doing, meet requirements for color and colorfastness. If copper-8-quinolinolate is not used as inhibitor, cloth prior to coating shall be treated with inhibitor (a) of CCC-D-950. Back shall be coated only enough to meet requirements for water absorption. Calender coating with preformed film not permitted.	Color (1) - Shall match applicable color number of Fed. Std. No. 595 or shall match the approved color standard for color specified (3). Aluminized coating where required shall contain sufficient aluminized pigment to produce a bright reflecting surface equal to the standard sample.	(4-5) Hydrostatic resistance after abrasion: seepage of water shall not exceed 5 ml. through abraded portion. Unabraded portion shall show no signs of leakage. Cloth shall show no cracking, flaking, or separation of coating from cloth at low temperatures. After immersion in aromatic fuel, cloth shall show no cracking, flaking, or separation of coating from cloth, and when subjected to static head of 20 in. of water for 10 min., seepage shall not exceed 5 ml. Type II cloth shall show no seepage of oil through cloth. After weatherometer exposure, cloth shall show no cracking or crazing when folded sharply on itself. Color shall not be appreciably changed. Type II: resistance to water absorption: 5% max. Type II, Class 1: "good" resistance to wet and dry crocking.	Intended Use - Type I: in the manufacture of airplane wing covers, engine covers, shelters, and items having similar applications. Type II: in the insulated frame-type tent, recognition panels and for covers where water, oil, and gasoline-proof material is required; also for carrying cases for liferafts, liferaft equipment and similar items.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)	Width Inch	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb.	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min	Flame Resistance (5903) Char Length Max"	Flexibility Cm. Max. Warp (5204)	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Pouch, Human Remains			Min / Max		W / F	W / F		W / F	W / F	70°F / -40°F			
MIL-P-10808C	Flat duck, 7.26 oz. conforming to Type II of CCC-C-443, except that it shall contain no more than 3% starch and protein content including chloroform-soluble and water-soluble materials. Mildew resistant treated with Class D treatment, using inhibitor "e" or "g" of CCC-D-950. pH: 5.5 - 8.5	Formulated from virgin vinyl chloride polymer or virgin vinyl chloride acetate copolymer, plasticized with phosphate or phthalate ester plasticizers exclusively. Use of water soluble compounding ingredients is prohibited.	20 / 23		110 70 (5102)	1280 1600 (grams)	10 (initial) 10 (after low temp resistance)				6 (initial) 5.5 (after boiling)		No. 3
Cloth, Laminated: Cotton, Balloon, 3 Ply, Air Retaining Chloroprene					(5102)								
MIL-C-11390C (GL)	Balloon cotton cloth conforming to Type HH of MIL-C-12318, except copper content: 0.003% max; and manganese content: 0.0015 max.	Compound shall contain chloroprene rubber. No natural rubber shall be used. Up to 20% of other elastomers (such as SBR) may be added to facilitate processing. Use of reclaimed rubber prohibited.	18.5 ± 1		39 min.	80 75 (initial) 90% 90% (of initial, after acc. aging)						4.5 (lb/in)	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-P-10808C	Coating shall be applied in equal quantities on both sides of the cloth.	Color - Coated cloth shall be Olive Green 207. Standard sample available.	(4)	Intended Use - In the transport and burial of human remains in the field.
MIL-C-11390C	Cloth shall be coated on both sides & shall be laminated. Sections of biased cloth shall overlap 3/4 in. Coated and laminated cloth shall be fully vulcanized. It shall be dusted on both sides with whiting, talc, or other finely divided mineral material which does not support mildew growth.		(4) Permeability: 6.0 L./sq. M. (max) in 24 hours (5640). Cloth shall not become stiff or brittle or soft and tacky or show other signs of improper vulcanization after accelerated weathering (4.4.3).	Intended Use - In the fabrication of decoy targets and as an air retaining repair material for pneumatic targets. It is a component of SC 1080-93-CL-D04, Repair Equipment, Pneumatic Target.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated: Butyl Coated, Toxicological Agents Protective MIL-C-12189, Amd. 1																		
Type I- Cotton airplane cloth Class 1- Coated both sides	Type I: mercerized cotton airplane cloth conforming to MIL-C-5646 except that length of roll, length of cut, & compatibility with dope shall not apply and cloth shall be singed. Copper content: 0.003% max. Manganese content: 0.0015% max. Class 2 shall be mildew proofed by application of 2,2' Methylene-bis (4 chlorophenol) to effect a deposition of the inhibitor on the cloth of 1.35 ± 0.25% based on weight of treated cloth.	Composition of butyl rubber. No natural rubber, reclaimed rubber, or synthetic rubber other than butyl shall be used.	11.0	13.5		(1) 80 (initial) 60 (after weatherometer)	80 60	20 (initial) 120 (after strength of coat.) 120 (after cold crack)	20	140				9			5.5	No. 2
Class 2- Coated one side		"	8.0	10.0		(1) 80 (initial) 60 (after weatherometer)	80 60	20 (initial) 120 (after strength of coat.) 110 (after cold crack)	20	140				8			5.0	No. 2

(Continued)

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-12189 Type I Class 1 Class 2 (Continued)	Class 1- Compound shall be applied both sides of cloth, after which cloth shall be fully vulcanized. One side shall have 65-75% of coating; the other side shall have the balance. Coated cloth shall be dusted on both sides with whiting, talc, or other finely divided mineral material which does not support mildew growth. Class 2- Compound shall be applied to one side only. Coated cloth shall then be fully vulcanized. There shall be no striking through of the coating to the uncoated side. Coated cloth shall be dusted on coated side only with whiting, talc, or other finely divided mineral material which does not support mildew growth.	Color - Base cloth: Class 2 shall match OG-107 (3). Coated cloth: Both classes shall match OD-177 (3). Colorfastness - After weatherometer and decontamination (from toxological agents), color of coated cloth shall not be changed appreciably when compared with an unexposed specimen of the same sample. Standard sample available for shade.	(4-5) Abrasion resistance: no loose fibers shall be exposed in the abraded portion (5302). Solvent resistance: cloth shall not become stiff and brittle or soft and tacky or show other signs of improper vulcanization. Resistance to toxicological agents - minutes min.: Initial- Mustard H: Class 1-100; Class 2-30. GB: Class 1-200; Class 2-30. After weatherometer- Mustard H: Class 1-75; Class 2-[illegible]. GB: 150; [illegible]. After decontamination- Mustard H: Class 1-75; Class 2-30. GB: Class 1-150; Class 2-30. Breaking strength after decontamination: Class 1-[illegible] lb. min. in warp and fill. Class 2-[illegible] lb. min. in warp and fill. Coated cloth shall be essentially odorless.	Intended Use - In the fabrication of impermeable clothing affording protection against toxicological agents. Class 2, which affords less protection against penetration of toxicological agents, is for the fabrication of items assembled with unstrapped sewed seams.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	Flame Resistance (5903) After Flame sec min F	Flame Resistance (5903) Char length Max" W	Flame Resistance (5903) Char length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated: Butyl Coated, Toxicological Agents Protective MIL-C-12189, Amd. 1 (Cont'd)																			
Type II- Cotton sheeting																			
Class 1- Coated both sides	Cotton sheeting conforming to Type VI, Class 2, coating quality, of CCC-C-432, except cloth shall be undyed.	Composition of butyl rubber. No natural rubber, reclaimed rubber, or synthetic rubber other than butyl shall be used.	13.5	16.0	(1)	50 (initial) 40 (after weatherometer)	45	22	20	80 (initial) 60 (after strength of coat) 60 (after cold crack)					9.5		5.5	No. 2
Class 2- Coated one side	Cotton sheeting conforming to Type VI, Class 2, coating quality, mildew resistant of CCC-C-432.	"	9.0	11.0	(1)	50 (initial) 40 (after weatherometer)	45	30	21	80 (initial) 60 (after strength of coat) 60 (after cold crack)					8.5		5.[illegible]	No. 2
Type III- Nylon twill																			
Class 1- Coated both sides	Nylon twill conforming Type I of MIL-C-577. Cloth shall be heat set.	"	8.5	11.0	(1)	90 (initial) 65 (after weatherometer)	90	20	20	150 (initial) 120 (after strength of coat) 120 (after cold crack					7.5		4.0	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-12189 (Cont'd) Type II Class 1 Class 2 Type III Class 1	Class 1- Compound shall be applied to both sides of cloth, after which cloth shall be fully vulcanized. One side shall have 65-75% of coating; the other side shall have the balance. Coated cloth shall be dusted on both sides with whiting, talc, or other finely divided mineral material which does not support mildew growth. Class 2- Compound shall be applied to one side only. Coated cloth shall then be fully vulcanized. There shall be no striking through of the coating to the uncoated side. Coated cloth shall be dusted on coated side only with whiting, talc, or other finely divided mineral material which does not support mildew growth.	Color - Base cloth: Type II, Class 1 & Type III shall be undyed. Type II, Class 2 shall be dyed to match OG-107 (3). Coated cloth: All types and classes shall match OD-177 (3). Standard sample available. Colorfastness: After weatherometer and decontamination (from toxicological agents), coated cloth shall not be changed in color when compared to an unexposed specimen of the same sample.	(4-5) Abrasion resistance: no loose fibers shall be exposed in the abraded portion (5302). Solvent resistance: cloth shall not become stiff and brittle or soft and tacky or show other signs of improper vulcanization. Resistance to toxicological agents- minutes min.: Initial- Mustard H: Type II, Class 1- 100; Class 2- 30; Type III- 100. GB: Type II, Class 1- 200; Class 2- 30; Type III- 200. After weatherometer- Mustard H: Type II, Class 1- 75; Class 2- 30; Type III- 75. GB: Type II, Class 1- 150; Class 2- 30; Type III- 150. After decontamination- Mustard H: Type II, Class 1- 75; Class 2- 30; Type III- 75. GB: Type II, Class 1- 150; Class 2- 30; Type III- 150. Coated cloth shall be essentially odorless.	Intended Use - In the fabrication of impermeable clothing affording protection against toxicological agents. Types II and III are alternate cloths for use when Type I cloth is not available. Class 2, which affords less protection against penetration of toxicological agents, is for the fabrication of items assembled with unstrapped sewed seams.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)	Width inch	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5132)	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min	Flame Resistance (5903) Char Length Max"	Flexibility Cm. Max. Warp (5204)	Bursting Strength Psi min (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth; Coated, Butyl Rubber			Min | Max		W | F	W | F (grams)		W | F	W | F	70°F | -40°F			
MIL-C-13621 (CmlC)	Single ply, uniform evenly woven silk or nylon.	Butyl rubber (GR-I). No natural, or synthetic rubber other than GR-I shall be used. Talc shall be used to prevent adhesion in rolls of uncured cloth and to produce dull gloss surface during cure. Talc shall be used to prevent adhesion in rolls of cured cloth when packaged.	- 3.2 (exclusive of weight of talc)		10 10 (initial) 7 7 (after acc. aging) 10 10 (after decontamination)	150 150 (initial) 100 100 150 150	No leakage up to 20 psi.						
Cloth, Cotton, Laminated, Waterproof and Gasoline-and-Grease-Resistant													
MIL-C-13695 (ORD)	One layer 48 in, No. 8 cotton duck conforming to Type I of CCC-D-771. One layer cotton sheeting conforming to Class A of CCC-S-291.	Synthetic rubber adhesive compound having no adverse effect on cotton.	28.5 30.0 -7 min. (i.e. 48" greige with 1% shrink. in treatment)		(5102) 300 220	(5136) 40 40	(a) No leakage up to 100 psi			see table in spec.		W F 4 3	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-13621	Same amount of compound shall be applied to both sides of base cloth. Surface of coated cloth shall be smooth, uniform, and free of breaks, blisters, wrinkles, [illegible], torn selvage or damage.	Color (1).	Thickness: 0.003 - 0.005 in. Liquid mustard resistance: Initial- 10 min.; after acc. aging- 10 min. (min.); after decontamination- 10 min. (min.) Coated cloth shall be essentially odorless. Coated cloth shall not be tacky before or after aging and decontamination. Resistance to other vesicant agents (1).	Intended Use - As a diaphragm material in optical gas mask diaphragm angletubes.
MIL-C-13695	Adhesive shall be applied at min. rate of [illegible] oz/sq yd of laminated cloth. Amount of adhesive in excess of min. shall not cause max. permissible weight of finished laminated cloth to be exceeded. Cloth shall be treated for mildew resistance by Type II process of Spec. AXS-1[illegible]7.	Color - Color of finished laminated cloth shall be Olive Drab No. [illegible]. Color shall be imparted by dyeing grey cloth with [illegible] in accordance with Type I processes (solid color) of MIL-D-[illegible].	(a) Water permeability: After high temperature exposure- no leakage up to 90 psi (4.4.8.[illegible]). After soaking in gasoline: no leakage up to 80 psi (4.4.[illegible]). Resistance to greases: adhesive strength shall be 1 lb. min. (4.4.[illegible]). Mildew resistance (4.4.10).	Intended Use - In fabricating envelopes and covers for protection of ordnance material in under-water fording and landing operations.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec Min		Char Length Max"		Flexibility Cm. Max. Warp (5204)		Bursting Strength Psi Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Label; For Clothing, Equipage, and Tentage, (General Use) DDD-L-20c, Amd. 1 (GL)																			
Types: I- Label, cloth, cotton, permanent coated, printed	Cotton, print, bleached white. Yarns/Inch: 80 in the warp; 72 in the fill.	Synthetic rubber or resin. Pigmented.	3.6 (Same as Type II)	4.8															No. 2
II- Label, cloth cotton, permanent coated, mildew resistant treated, printed.	Same as Type I. Shall also be mildew resistant treated with 1.35 + 0.25% 2,2' methylene bis (4-chlorophenol) by weight, applied either to base cloth or coating or both.	Synthetic rubber or resin. Pigmented.	3.6 A 10% + tolerance over the max. wgt. will be allowed for the Type I or II, Classes 3, 7 and 11 labels, because of the additional coating or impregnating required after printing.	4.8															No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
DDD-L-20c Type I Type II	Types I & II shall be impregnated or surface coated. Printed surface of Classes 3 & 7 instruction labels & Class 11 identification label shall be impregnated or surface coated with the finishing compound after printing. Following materials shall not be used in the coating or impregnating formulations: Thermoplastic polyvinyl butyral resin, proteins and their derivatives, starch, hyrophilic oils and resins, rosin, sulfur compounds. Finished labels shall be free from objectionable odor and shall have a relatively smooth surface.	Color - Color of finished labels shall be bleached white. Colorfastness - See spec. for colorfastness of printing requirements.	Unless otherwise specified, the labels and markings shall be equal to the standard sample in respect to legibility, quality or printing, durability of finish, and, where applicable, in the ability to accept writing. Labels shall be printed with a black marking medium. The initial printing shall be legible and shall not show off-setting, smearing, or bleeding. All classes of labels shall be printed with Gothic, sansserif type. Italic or script type shall not be used. All printing shall be in capitals except instruction labels as specified in spec. See spec. for contents, size of characters of inscription, and format of labels.	Intended Use - In items of clothing, tentage, equipage, and related items as specified for the applicable class.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	Flame Resistance (5903) After Flame sec min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F (+30°F)	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated, Nylon, Polyvinyl Butyral MIL-C-14366B	Warp yarn: semidull 40±2 denier, 13 filament nylon. 6-8 turns "Z". Filling yarn: bright, 70±3 denier, 32-34 filament nylon. 2-3 turns "Z". Use of relaxed filling yarn is mandatory to minimize pirn taper barre. Weave: 2/1 right twill. Each selvage shall have 34±4 ends, weaving 2 as 1. Weight: 1.5±0.1 oz/sq yd. Yarns/in.: 116 in the warp; 76 in the fill. Breaking strength: 50 lb. min. in the warp and fill. Shrinkage: 2% max. in the warp; 1% max. in the fill. Heat set prior to dyeing. Dyed with special nylon dyes or other dyes that will show no more striation in finished coated cloth than standard sample. (6) pH: 5.0 - 8.5	Thermosetting virgin polyvinyl butyral, plasticized with phosphate or phthalate ester plasticizers exculsively. Pigmented.	-	3.5	(1) All selvages shall be trimmed from coated cloth.	50	50	30	30	40 (initial) 20 (after strength of coating) 30 (after water immersion) 30 (after low temp resistance) Pass (after abrasion resistance)					6	7	6 (initial) 4 (after water immersion)	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-14366B	Coated on reverse side of cloth only, then thermoset. There shall be no strike through of coating to face of cloth. Coated side shall have uniform finish and be dusted with powdered mica not coarser than 160 mesh. Reverse side of cloth shall be the side with twill line running from right to left.	Color - Base cloth: Color shall be such that after coating, finished coated cloth shall match standard shade sample on the uncoated side (shade Taupe 179 or Blue 1157, as specified)(3). Coated cloth: face side shall match standard sample in luster and color (Taupe shade 179 or Blue shade 1157, as specified)(3). Colorfastness - standard sample available (5660-5614).	(4-5) Water wicking: ¼ in. max. (4.4.10).	Intended Use - In the manufacture of the Raincoat, Men's Lightweight, Taupe 179 and Blue 1157.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Psi Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth, Coated, Polychloroprene: (For Pneumatic Floating Equipment) MIL-C-14505B																		
Class 3- Single ply cloth 11.5 oz	High tenacity, improved heat & light resistant, heat set and scoured nylon cloth. Cloth shall be impregnated with a primer prior to coating to insure the adhesive bond to coating compound. See spec. for detailed base cloth requirements.	Compound shall contain not less than 60% by volume of chloroprene. Compound shall contain no materials injurious to nylon, which will result in a waxy finish, or which are water-soluble. See spec. for detailed coating compound requirements.	-	11.5		153 (initial) 85% (after oven aging) 85% (after acc. weathering)	135 (initial) 85% (after oven aging) 85% (after acc. weathering)	(5134) 8	8									
Class 4- Single ply cloth 31.0 oz			-	31.0		350 (initial) 85% (after oven aging) 85% (after acc. weathering)	335 (initial) 85% (after oven aging) 85% (after acc. weathering)	30	30	6.0								
Class 6- Single ply cloth 44.0 oz (Continued)	"	"	-	44.0		400 (initial) 85% (after oven aging) 85% (after acc. weathering)	400 (initial) 85% (after oven aging) 85% (after acc. weathering)	50	50	10.0								

	Coating Thickness (mils min.) Side A	Coating Thickness (mils min.) Side B	Permeability L/sq M/24 hours (max)	W	F
Class 3	3.3	3.3	-	8 (initial) 60% (after water resistance)	8 (initial) 60% (after water resistance)
Class 4	6.0	6.0	3.0	20 (initial) 60% (after water resistance)	20 (initial) 60% (after water resistance)
Class 6	10.0	10.0	2.0	40 (initial) 60% (after water resistance)	40 (initial) 60% (after water resistance)

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-14505B Class 3 Class 4 Class 6 (Continued)	Primed nylon cloth shall be coated. Thickness of coating is exclusive of thickness of primer. Coating shall be applied by either the spreader or the calender process. Cloth shall be vulcanized during fabrication of pneumatic floating equipment.	Color - Base cloth shall be unbleached. Coated cloth: compatible coloring agent shall be added to coating compound to make finished color Black.	No cracking or flaking at low temperatures (5874). Porosity: Classes 4 and 6- no leaks (ASTM D751, method B).	Intended Use - In the fabrication of pneumatic flotation equipment.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated, Polychloroprene: (For Pneumatic Floating Equipment) MIL-C-14505B (Cont'd)																		
Class 7- Single ply cloth 60.0 oz	See p. 154 for base cloth requirements.	See p. 154 for coating compound requirements.	-	60.0		650 (initial) 85% (after oven aging) 85% (after acc. weathering)	650 (initial) 85% (after oven aging) 85% (after acc. weathering)	70 (5134)	70 (5134)	Coating Thickness (mils min.) Side A 16.0	Side B 16.0			Permeability L/sq M/24 hours (max) 2.0	W 40 (initial) 60% (after water resistance)	F 40 (initial) 60% (after water resistance)		
Class 10- Pile cloth 40.5 oz.			-	40.5		100 (initial) 85% (after oxygen bomb aging)	150 (initial) 85% (after oxygen bomb aging)	7	10	11.0	11.0			3.0	10 (initial) 60% (after water resistance)	10 (initial) 60% (after water resistance)		
Class 11- Single ply cloth 14.0 oz			-	14.0		225 (initial) 85% (after oven aging) 85% (after acc. weathering)	180 (initial) 85% (after oven aging) 85% (after acc. weathering)	8	8	3.5	3.5			2.0	12 (initial) 60% (after water resistance)	12 (initial) 60% (after water resistance)		

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-14505B (Cont'd) Class 7 Class 10 Class 11	See p. 154 for coating requirements.	See p. 154 for color requirements.	No cracking or flaking at low temperature (5874). Porosity: Classes 7, 10 and 11- no leaks (ASTM D751, Method B).	Intended Use - In the fabrication of pneumatic floating equipment.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min		Flame Resistance (5903) Char Length Max"		Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Tape, Coated-Cloth, Polychloroprene MIL-T-14517 (CE)	Balloon cloth conforming to MIL-C-12318 Type HH. Cloth shall be mildew resistant. Fungitoxic compound shall be compatible with cloth and coating. No copper fungitoxic compound shall be used.	Polychloroprene spread compound & uncured polychloroprene compounds shall contain not less than 60% (by volume) of chloroprene. They shall be compatible. Uncured compound shall be compounded to vulcanize or cure by migration of accelerator from polychloroprene cement conforming to MIL-C-5540, Type II. Spread compound shall have min. tensile strength of 1600 psi and min. ultimate elongation of 300%. Loss of tensile strength shall not exceed 10% after acc. aging & after acc. weathering.	6.22	6.88	1-5/8													6 lb/1"	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-T-14517	Balloon cloth shall be spread coated with polychloroprene spread compound on both sides then cured. One side shall then be spread coated with uncured polychloroprene compound. Not less than 3 spreader coats/oz/sq yd of polychloroprene compound shall be applied. A binder coat may be included between the cured & uncured coats of polychloroprene compound. Curing with soapstone shall not be permitted. Tape shall not be overcured.		Tape shall be rolled with an interliner of holland cloth to prevent adhesion between cured & uncured polychloroprene surfaces. Ingredients such as soapstone, talc, paraffin, or similar materials which will immediately or latently affect the strength and adhesion of the tape shall not be imbedded in the surface of the balloon cloth.	Intended Use - In the seams of air-retaining cloth conforming to MIL-C-11390. Tape is cured by activation with a neoprene cement conforming to Type II of MIL-C-5540.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5132)	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min	Flame Resistance (5903) Char Length Max"	Flexibility Cm. Max. Warp (5204)	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W F	W F		W F	W F	70°F	-40°F		
Cloth, Coated, Fire Resistant, Berth and Bedding Cover MIL-C-15104C (SHIPS) Amd. 1														
Type I-Submarine berths	Flame and mildew resistant cotton.	Noninflammable. Shall render finished cloth soft & pliable, shall be nonirritating to the skin, and shall not produce toxic products of combustion.	24	26	54 ±½	140 120 (initial) 75% 75% (after aging)		No leakage up to 100 psi	2 2 3 3 (initial) 2 2 3 3 (after water extraction) 2 2 3 3 (after scrubbing)				4	No. 2
Type II- Bedding covers	"	"	14	18	50-54	135 100 (initial) 75% 75% (after aging)		No leakage up to 100 psi	2 2 3 3 (initial) 2 2 3 3 (after water extraction) 2 2 3 3 (after scrubbing)				-	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-15104C Type I Type II	Texture of Type I to equal that of standard sample. Texture shall be like that of smooth finished, top grain upholstery leather.	Color - Type I: Light Green equal to standard sample. Type II: Coating shall be Green 14062 of Fed. Std. No. 595.	Coating shall not crack at low temperatures (4.4.4). Coating shall not be visibly affected by salt water (4.4.5). Cloth shall show no discoloration or embrittlement in light aging (5660). Mildew resistance: after water extraction and scrubbing, there shall be no mildew growth. Breaking strength shall not decrease more than 15%. There shall be no evidence of blooming, mottling, or discoloration after heat aging. Volatility: loss of weight of coated cloth not to exceed 8%. Plasticizer extraction not to exceed 10% of weight of coated cloth. Flexibility: Type I - soft and pliable for handling and sewing. Shall not crack after heat & light. Type II: Coating shall not crack down to base cloth (4.4.1). Type I: Abrasion resistance - pattern of coating shall not be obliterated after 5000 double rubs. Abraded specimen shall show no leakage. Resistance to gasoline and oil.	Intended Use - For submarine bunk covers and bedding covers.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min		Flame Resistance (5903) Char length Max"		Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Cloth, Coated, and Webbing, Inflatable Boat and Miscellaneous Use MIL-C-17415E (SHIPS) Amd. 1																			
Type I- 5.0 oz.	High tenacity, improved heat & light resistant nylon. Heat set and cured. Breaking strength: warp-40; fill-40. Weight: 1.00 oz. (max). pH: 5 - 8.	Synthetic rubber: 60-75% polymerized chloroprene. Tensile strength: 1800 psi (min.) Elongation: 500% min. No materials which would result in a waxy finish or be water soluble shall be used.	4.7	5.6	(1)	50	50	(5134)			Permeability (L. max.)						(min.) 5	No. 2
Type II		After being cured and exposed to acc. light shall retain min. 75% tensile strength.																	
Class A- 8.5 oz.	Nylon (see above). Weight: 2.5 oz max.		8.0	9.0	(1)					100							5	No. 2
Class B- 6.8 oz.	Breaking strength: W-150; F-140.		6.3	7.8	(1)	180	165	8	8	100							5	No. 2
Class C-20.5 oz.			19	22	(1)					100							5	No. 2
Type III- 7.6 oz.	Cotton. Singed. Weight: 2.10 oz. max. Breaking strength: warp & fill: 40. pH: 6.5 - 7.6.		7.2	8.0	(1)					100							5	No. 2
Type IV		Natural rubber.																	
Class A-15.0 oz.	Cotton. Singed. Weight: 4.5 oz max. Breaking strength: W & F: 80. pH: 6.5 - 7.6.	78% (by volume) min. new plantation rubber. See physical & material requirements of synthetic.	14.0	15.0	(1)						11.8						5	No. 2
Class B-10.0 oz	"	Synthetic.	9.5	10.5	(1)						11.8						5	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-17415E Type I Type II Class A Class B Class C Type III Type IV Class A Class B (Continued)	Base cloth may be treated before coating with an adhesive compound or a dip treatment to insure adhesion of coating compound if desired. Coatings shall be applied by spreader or calender processes.	Color - Base cloth shall be unbleached. Coated cloth: unless otherwise specified, color shall be that which naturally evolves as a result of compounding ingredients. Type II, Class B color shall be Sea Rescue Orange or a close match.	Coating shall show no signs of becoming stiff & brittle or soft and tacky after accelerated aging. Loss in tensile strength shall not exceed 15% for cloths coated with natural rubber of 10% for cloths coated with synthetic rubber (5852). Synthetic rubber coating shall not crack when bent after accelerated weathering (see spec. for table of loss of tensile strength (5804). Cloth shall not crack at low temperatures (5874).	Intended Use - In finished inflatable boats and accessories.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	Flame Resistance (5903) After Flame sec min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth, Coated, and Webbing, Inflatable Boat and Miscellaneous Use (Cont'd) MIL-C-17415E (SHIPS) Amd. 1																			
Type V- 23.4 oz.	Nylon (see p. 158). Weight: 5.4 oz max. Breaking strength: Warp & Fill: 300.	Synthetic (see p. 158).	22.2	24.6	(1)	360	360	(5134) 25	25	100	Permeability (L. max.)						min. 15		No. 2
Type VI-21.5 oz.	Nylon: 2 nylon cloths joined 2¼-3" apart by 30 pile yarns/in² min. W: 2-ply, 70 den. F: singles, 210 den. Pile W: 2-ply, 70 den. or singles, 210 den. Weight: 8.50 oz max.	"	18.5	20.5	(1)	110	180	7	13		2.0						8		No. 2
Type VII																			
Class A- 30.0 oz	Cotton (see p. 158). Weight: 7.50. Breaking strength: 150- W; 145- F.	Natural (see p. 158).	28.5	31.5	(1)	165	160	4	4		2.0						10		No. 2
Class B- 32.0 oz		Synthetic (see p. 158).	28.5	35.0	(1)	165	160	4	4		2.0						15		No. 2
Type VIII																			
Class A- 6.5 oz.	Nylon (see Type I)	Natural (see p. 158).	6.2	6.8	(1)						11.8						5		No. 2
Class B- 6.5 oz.	Nylon (see Type I)	Synthetic (see p. 158).	6.2	6.8	(1)						11.8						5		No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-17415E Type V Type VI Type VII Class A Class B Type VII Class A Class B (Cont'd)	See page 158 for additional information.			

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5134) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec Min	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated, and Webbing, Inflatable Boat and Miscellaneous Use (Continued) MIL-C-17415E (SHIPS) Amd. 1																		
Type IX											Permeability (L. max.)						(min.)	
Class A- 30.4 oz	Nylon (see Type V)	Synthetic (see p. 158.)	28.5	31.5	(1)	360	360	21	21		2.0						12	No. 2
Class B- 33.4 oz	"	Natural (see p. 158.)	30.0	34.0	(1)	360	360	15	15		2.0						8	No. 2
Type X- 31.5 oz	Nylon (See Type VI)	Synthetic (see p. 158.)	27.8	30.8	(1)						2.0						8	No. 2
Type XI- 35.5 oz	"	"	31.8	35.2	(1)						2.0						8	No. 2
Type XII-45.1 oz	Nylon (pile cloth): 2 nylon cloths joined 2-2½" apart by 30 pile yarns/in² min. See Type VI for ply & denier. Wgt: 8.20.	"	42.0	46.0	(1)						2.0						8	No. 2
Type XIII-12.1 oz	Nylon (see p. 158) Weight: 3.10. Breaking strength: 195 in warp & fill.	"	11.5	12.7	(1)	225	225	12	12		11.8						8	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-17415E Type IX Class A Class B Type X Type XI Type XII Type XIII	See page 158 for additional information.			

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Max. W	Flame Resistance (5903) After Flame sec. Max. F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Psi Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth, Coated, and Webbing Inflatable Boat and Miscellaneous Use (Continued) MIL-C-17415E (SHIPS) Amd. 1										Permeability (L. max.)								(min.)	
Type XIV- 45.3 oz	Nylon (see p. 158). Weight: 13.3 oz max. Breaking strength: 600 in warp & fill.	Synthetic (see p. 158).	43.3	47.3	(1)	600	600	(5134) 60	60	2.0								12	No. 2
Type XV- Webbing, 3 in. wide, undyed.	Nylon webbing. To conform to MIL-W-17337, except that it shall be undyed. Weight: 2.2 oz/lin yd. max. Breaking strength: (full width)- 3000 lb.	Synthetic (see p. 158). Friction or spread coated to protect against sunlight aging and provide a base for cement.			3	3000 (full width)													No. 2
Type XVI Class A- 24.5 oz	Nylon (see p. 158). Weight: 4.8 oz max.	Synthetic (see p. 158).	22.0	27.0	(1)	300	300	16	16	2.0								16	No. 2
Class B- 24.5 oz	"	Naturul (see p. 158).	22.0	27.0	(1)	300	300	16	16	2.0								8	No. 2
Type XVII-40.5 oz	Nylon (see p. 158). Weight: 8.5 oz max. Breaking strength: 400 in warp & fill.	Synthetic (see p. 158).	38.0	42.0	(1)	400	400	25	25	2.0								16	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-17415E (Cont'd) Type XIV	See page 158 for additional information.			
Type XV	Webbing shall be friction or spread coated to protect against sunlight aging and to provide a base for cement. Coating shall be no less than 1 mil. thick.	Color - Base cloth shall be undyed. Coated cloth: see p. 158.		
Type XVI Class A Class B Type XVII	See page 158 for additional information.			

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydro-static Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts min (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated; and Tape, Coated Cloth-Chloroprene on Nylon, Pneumatic Life Preserver MIL-C-19002B, Amd. 2																			
Type I- Coated cloth (one side)	Nylon twill conforming to MIL-C-19377 (Aer). For flaging of defects a single thread shall be used that will not increase thickness of cloth in order to maintain uniformity of coating on spreading machine. Marking shall be such that it is visible after coating. Tape shall be cut in bias direction.	At least 60% polychloroprene. Remainder of compound shall be softeners, curing agents, antioxidants, and reinforcing materials. Pigmented. Compound shall be compatible with base cloth and contain no waxes or other ingredients that may bloom to the surface to adversely affect coating adhesion and cement-ability of finished cloth. Compound shall be water insoluble after curing. See spec. for table of physical properties of cured compound.	7.0	7.7	(1)	180	170											10 (lb/in)	No. 2
Type II- Coated cloth tape (both sides)			13.3	15.8	(1)	180	170											10 (lb/in)	No. 2
Type III- Coated cloth tape (one side - uncured)			9.3	11.5	1 or 3/4	180	170											10 (lb/in)	No. 2
Type IV- Coated cloth tape (both sides - uncured)			15.6	19.6	1 or 3/4	180	170											10 (lb/in)	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-19002B Type I Type II Type III	After application of foundation coat compatible with base cloth and compound to produce adhesion, cloth shall be coated by a spread coat operation. No strike through to uncoated side shall be permitted. Tapes: Types II & IV shall be coated on both sides & Type III shall be coated on one side. One side of Type II, the coated side of Type III, and both sides of Type IV shall have a surface coating of high polychloroprene content stock which may be uncured or partially cured (1). Shall be compatible with cured coated cloth and shall be protected by a suitable liner which may be seperated without affecting adhesion and cement-ability of tape. Coated cloth shall be cured. Cured coating may be lightly dusted with talc or zinc sterate.	Color - Base cloth: base cloth for life preserver shall be dyed. Base cloth for Types II & IV tapes shall be dyed or undyed as specified. Coated cloth: coating shall be suitably pigmented during compounding process so that cured coating and base cloth shall have a uniform color.	(4) Material for acceptance shall have been manufactured no more than 4 weeks before release for shipment. Coating shall not become stiff or brittle or soft and tacky after accelerated aging. Breaking strength shall be no less than 160 lb. in the warp and 155 lb. in the fill. Elongation shall be a min. of 22% (5850 and 5852). After accelerated weathering, breaking strength shall not be less than 155 in the fill and 160 in the warp, and min. elongation shall be 22% (5104). Permeability of coated cloth to hydrogen shall not exceed 5 L/M^2 in 24 hours or its equivalent using helium. Cloth shall show no signs of air leakage at a pressure of 10 lb/in^2 for 3 min. (4.4.5.13). Cloth shall not crack when folded on itself after low temp. (5874).	Intended Use - In the manufacture of components of pneumatic life preservers.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Min W	Flame Resistance (5903) After Flame sec. Min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Psi Min (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth, Coated (For Aircraft Protectors) MIL-C-19524 (AER) Amd. 2	Base cloth shall have fiber, weave and construction appropriate to coated cloth requirements.	Suitably compounded polymer or copolymer ethylene resins.	4.0	9.0	36 ±1	(5102) 65	65	(5134) 15	15	(5514) 16 hours	(5910) ½ min. (min) to consume						200		

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-19524	Coating shall be applied to both surfaces.	Color (1).	Cloth shall be nonirritating to skin. Odor shall not be obnoxious. Strength across seam shall be not less than 75 lb. Coating shall not separate from base cloth, flake, delaminate, or form bubbles or craters (4.5.4). Ice-repellent properties (4.5.5). Mildew resistance: cloth shall not lose more than 10% of breaking strength (4.5.6). After exposure to lubricating oil and hydraulic fluids, cloth shall show no loss of water resistance, nor more than 10% loss of breaking strength (4.5.7). After exposure to ultra-violet radiation, cloth shall not lose more than 25% of breaking strength, shall show no embrittlement, delamination or other defects, and shall not cause deleterious effects to painted surfaces. Cloth shall not crack, delaminate, or develop pinholes at low temps. (4.5.9) or rupture or tear (4.5.10). Cloth shall separate readily and not rupture or delaminate at high temp. (4.5.11). No embrittlement, delamination, lessening of ice-repellent properties or other defects after acc. aging (4.5.12).	Intended Use - In the manufacture of protectors (covers) to be used to cover aircraft parts (wings, tail groups, helicopter rotor parts, etc.) in a standby condition, which are exposed to adverse weather conditions of ice, snow, frost, etc.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903)				Flexibility Cm. Max. Warp (5204)		Stiffness Strength Pts. Min. (5122)	Adhesion Lb/2" wide 5970	Blocking Scale rating 5872
											After Flame sec. Min		Char Length Max"						
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Cloth, Coated; Non-Slip Table Covering MIL-C-19635 (CS) Amd. 1	Osnaburg, plain weave. Yarns/inch: 32 in the warp; 24 in the fill.	Chemically-blown sponge rubber of natural or synthetic rubber or a compound thereof. Neoprene coating .005 - .010 in thickness. 3-coat application is normally needed to achieve thickness. Rubber shall be of a soft, flame resistant quality, with an adhesive rind or surface, homogeneous in character and free from any defect which may affect its appearance or impair its serviceability.	1.06 (lb/yd)	1.09		25	25												

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-19635	Undersurface shall consist of a layer of sponge rubber. One fold of cloth shall be firmly imbedded & keyed to rubber layer, but shall not show through at any point. Exposed side of cloth backing shall be finished with neoprene coating to form the upper surface of the cloth. Neoprene coating shall permit the imprint of the backing cloth to show and produce a somewhat rough, slip-resistant effect. Neoprene surface shall be nonporous and shall have a continuous skin free from blow holes. It shall be sufficiently non-slip to hold tablewear in place at an angle of 35°. Rubber under side shall be capable of adhering to the surface of a table without the use of clips, etc., at a 35° angle. Neoprene surface shall be capable of being cleaned with soap, water & bristle brush of stains of coffee, ketchup, egg, butter, and other commonly used foods.	Color - Upper surface: unless otherwise specified, neoprene coated upper surface shall be Green to match Color No. 14260 of Fed. Std. No. 595. Under surface: unless otherwise specified, color of sponge rubber under surface may be at the option of the manufacturer.	Rubber shall be free from objectionable odor under ordinary service conditions. Cloth shall not become sticky or crack when bent back on itself after acc. aging. Cloth shall be flame resistant. Cloth shall be capable of being rolled or folded for storage without cracking or delamination. Table covering shall show no evidence of separation into distinct layers or laminations when subjected to ordinary usage.	Intended Use - To be placed directly on standard mess tables during rough weather, to retain dishes and miscellaneous tablewear in place without the use of fiddle boards. It is not intended to be used as a matting underlay for other types of table covers used in normal weather.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min W	Flame Resistance (5903) After Flame sec. min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp 70°F (5204)	Flexibility Cm. Max. Warp -40°F (5204)	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5972)
Cloth, Coated (Nylon Taffeta) MIL-C-19699A (SA) Amd. 1	Cloth, nylon, taffeta (2.0 oz.) conforming to MIL-C-21852.	Properly plasticized chloroprene rubber, free from objectionable odor.	4.7 ± 0.5		(1)	110	95	850 (grams)	650	80 (initial) See spec. for requirements after testing.					2.5	8.0		10	
Cloth, Coated (Nylon Twill, Low Count) MIL-C-19759A (SA)																			
Type I- 7.5 oz. coated one side	Cloth, nylon twill low count 3.5 oz., conforming to MIL-C-19256. Face shall be identified by twill line running from lower left to upper right.	Properly plasticized chloroprene rubber. Pigmented. Non-toxic, non-irritant and free from objectionable odor.	7.5 ± 0.5		(1)	225	210	4500 (grams)	3800	100 (initial) See spec. for requirements after testing.					9.0	25.0		10	
Type II- 9.0 oz. coated both sides			9.0 ± 0.5		(1)	225	210	3400 (grams)	3000	100 (initial) See spec. for requirements after testing.					14.0	35.0		10	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-19699A		Color - Coating shall be pigmented Black. Standard sample available.	(4) Coated cloth shall show no tackiness, exudation, or loss of flexibility at high temps. (5850). Cloth shall be free from objectionable odor.	Intended Use - In the manufacture of special purpose clothing worn by Navy personnel.
MIL-C-19759A Type I Type II	Coated cloth shall be flexible, free from tackiness, and resistant to abrasion and scratching. Type I shall be coated on back only with app. 4.0 oz. of compound. Type II shall be coated on back with app. 4.0 oz. of compound, and on the face with app. 1.5 oz. of coating.	Color - Type I: coating shall be pigmented Black. There shall be no change in shade on the face of the cloth. Type II: Coating of back shall be pigmented Green to approximate shade of basic cloth. Standard samples available for both types.	(4)	Intended Use - Type I: in the fabrication on special cold weather clothing items. Type II: in the fabrication of the submarine deck exposure suit and wet weather clothing items.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min W	Flame Resistance (5903) After Flame sec. min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated, Nylon, Waterproof MIL-C-20696A, Amd. 2																			
Type I- Nylon, 2.3 oz (nominal) uncoated.						(5102)		(5134)											
Class 1- Base cloth coated with chloroprene.	Bright high tenacity filament nylon. Plain weave. Weight: 2.3 ± 0.2 oz. Yarns/Inch: 38 in warp and fill. Breaking strength: 115 lb. in warp and fill.	Chloroprene rubber. Up to 20% other elastomers (such as SBR) may be added.	7.0	9.0	39 min. or (1)	120 (initial) 80% (after weather-ometer)	100 80%	12	10						7-10	12	10		No. 3
Class 2- Base cloth coated with vinyl chloride polymer or copolymer.		Virgin polymer or copolymer of vinyl chloride resin.	8.0	10.0	39 min. or (1)	120 (initial) 80% (after weather-ometer)	100 80%	12	10						7-10	(-10°F) 13	10		No. 3
Class 3- Base cloth coated with chloroprene containing fire retardant. (Continued)		Chloroprene rubber containing an evenly dispersed fire inhibitor. Up to 20% other elastomers (such as SBR) may be added.	9.5	11.5	39 min. or (1)	120 (initial) 80% (after weather-ometer)	100 80%	12	10		10	10	3.5 (each)		7-10	(-40°F) 12	10		No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-20696A Type I Class 1 Class 2 Class 3 (Continued)	Coating shall be applied to both sides of base cloth. Face side shall receive a heavier coating than back, except for Type II, Class 2, which may have a balanced or unbalanced coating as specified. Classes 1 and 3 coated cloths shall be fully vulcanized and dusted with whiting, talc, or other finely divided mineral material which does not support mildew growth. Plasticizers for Class 2 shall be limited to phosphate and phthalate esters exclusively.	Color - Coated cloth shall match applicable cable color number of Fed. Std. No. 595 or approved color standard for color specified (3). Colorfastness - no change after acc. weathering (3.4.5).	(4-5). Types I & II, Class 1 & 3: shall not become stiff or brittle or soft or tacky after acc. aging (5852). Hydrostatic resistance: no leakage before or after abrasion (5516 & 4.4.2.1). Oil resistance: no seepage (4.4.3). Resistance to aromatic hydrocarbons: no cracking (4.4.4). Cloth shall show no cracking or crazing when folded sharply on itself after acc. weathering. Folded cloth shall show no signs of blooming or chalking (3.4.5). Selvages may be trimmed after coating.	Intended Use - In the fabrication of wing covers, engine covers, shelters, gun and vehicle covers, and equipage items.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts min (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated, Nylon, Waterproof MIL-C-20696A Amd. 2, (Cont'd)								(5134)											
Type II- Nylon 5.1 oz (nominal) uncoated						(5102)													
Class 1- Base cloth coated with chloroprene.	Bright high tenacity filament nylon. Plain weave. Weight: 5.1±0.3 oz. Yarns/Inch: 22 in. the warp; 21 in the fill. Breaking strength: 225 in warp and fill.	Class 1 p. 166.	15	17	39 min. or (1)	325 (initial) 80% (after weatherometer)	260 80%	45	38						11.5-14.5	20.0 (+10°F)	15	No. 3	
Class 2- Base cloth coated with vinyl chloride polymer or copolymer.		Class 2 p. 166. Coating shall also contain an evenly dispersed fire inhibitor.	17	19	39 min. or (1)	325 (initial) 80% (after weatherometer)	260 80%	45	38						13.5-16.5	22.0 (-40°F)	15	No. 3	
Class 3- Base cloth coated with chloroprene containing fire retardant.		Class 3 p. 166.	17	19	39 min. or (1)	325 (initial) 80% (after weatherometer)	260 80%	45	38		10	10	3.5W 3.5F		11.5-14.5	20.0	15	No. 3	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-20696A Type II Class 1 Class 2 Class 3 (Cont'd)	See page 166.	See page 166.	See p. 166. Type II, Class 2: in warp direction, flame shall not traverse entire length of specimen within 42 sec. of start of burner flame (5903-T).	See p. 166.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)		Flame Resistance (5903) After Flame sec. Min		Flame Resistance (5903) Char Length" Max		Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F			W	F	W	F	70°F	-40°F			
Cloth, Coated, Raft Bottom MIL-C-21109A (WEP)																				
Type I- 7.0 oz.	Nylon conforming to MIL-C-21108, Type I.	Natural rubber- not less than 80% by volume new plantation rubber. Containing softeners, curing agents, antioxidants, and reinforcing materials. Outer coating shall be pigmented. Fineness that 100% of pigment shall pass through 325 mesh screen. Coatings shall not be injurious to base cloth and contain no ingredients which might bloom to the surface of adversely affect coated cloth. Shall cure properly & be water insoluble (water extractable matter: 1% of wgt. max.). Compound shall be cured in sheet form. See spec. for table of physical properties of coating compound.	6.3	7.0	(1)	150 (initial) 90% (after heat aging)	140 (initial) 90% (after heat aging)			50 (initial) 50 (after heat aging)									7.0	No. 2
Type II- 14.0 oz.	Nylon conforming to MIL-C-21108, Type II.		13.3	14.5	(1)	300 (initial) 90% (after heat aging)	300 (initial) 90% (after heat aging)			100 (initial) 100 (after heat aging)									7.0	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-21109A Type I Type II	Foundation coating compatible with base cloth & remainder of coating compound shall be applied to achieve required adhesion. Coating compound shall then be applied by spread coating operation. Compound shall be applied in sequence of operations so that both sides shall be coated and built up in accordance with spec. Pigment shall be incorporated in outermost coating. Coating shall be cured. Cured coated cloth may be lightly dusted with talc of zinc stearate.	Color - Unless otherwise specified, uniform permanent color of finished coated cloth shall be an app. match to color number 33538 lusterless Yellow of Fed. Std. 595.	Cloth shall be from current production and not more than 90 days old prior to release for shipment. Cloth shall not become stiff and brittle or soft and tacky after heat aging (4.6.9). Cloth shall show no signs of cracking when folded after exposure to low temps. (4.6.10).	Intended Use - In the manufacture of life raft bottoms. Type I is for one-man rafts, cylinder carriers, oral inflation valve pockets, sea anchor moorings, and accessory patches used in the manufacture of pararafts and packet rafts. Type II is for the multi-place life raft bottoms.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Min W	Flame Resistance (5903) After Flame sec. Min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Laminated, ZPG and ZPG W Type Airship Envelope MIL-C-21189 (AER) Amd. 1	Dacron (polyester fiber). Cloth shall be heat set so that shrinkage shall be no greater than 1.5% in both warp and fill. Max. chloroform extractable matter shall be 1.5%. pH: 6.5 - 8.0 (2811).	Not less than 75% by volume chloroprene. Outer coat shall contain not less than 75% by volume) chlorosulfonated polyethylene. Balance shall be softeners, curing agents, antioxidants, and reinforcing materials. Chlorosulfonated polyethylene shall contain aluminum pigment conforming to TT-A-468, Types I or II, Class A. Compounds shall contain no waxes or ingredients that may bloom to the surface to affect coating adhesion or cementability. Water insoluble after curing and shall not irritate skin or detrimentally affect dacron. Cured in sheet form. See spec. for table of physical properties of coating cmpd.	-	16.5	40 min.	(5102) 320 (see spec. for requirements after testing)	280	130	130	600								10	No. 1

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-21189	Laminated cloth shall consist of 2 plies of dacron (polyester fiber) cloth bonded & coated uniformly with chloroprene base compound on outer sides of cloth. Laminated cloth shall have additional coating of aluminized-chlorosulfonated polyethylene on one (outer) side of laminated cloth.	Color - Unless otherwise specified, color shall be aluminized.	(4) No more than 4 weeks shall elapse from time of curing to date of delivery of coated cloth. Ultimate elongation- Initial: 30% max. in warp and fill for straight ply; 35% max. for warp and fill for bias ply (5102). See spec. for requirements after testing. Permeability to hydrogen- Without tension- Initial: 2.5 L/sq M/24 hours max. At bias seam- Initial: 2.5 L/sq M/24 hours max.; Under tension- Initial: 2.5 L/sq M/24 hours max. (5460). See spec. for requirements after testing. Adhesion between plies - Initial: 7.5 lb/in min.; After creasing: 7.5 lb/in min. (5950). Cylinder elongation: 1% max. in the warp (10.2.6). Aluminized laminated cloth, after treatment with aluminum base wash coat, shall show total reflectance of not less than 50%. Bias seam: 3/4 in. min. Free from ragged and uneven edges and from loose threads imbedded in coating compound. Coating shall be applied uniformly throughout.	Intended Use - In the manufacture of airship envelopes.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min		Char Length Max"		Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. Min (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Dunnage Mattress, Pneumatic, Cargo Shoring MIL-D-21857A	Casing base cloth shall be nylon duck. Yarn: 210 den. 32-35 filament, bright high tenacity polyamide of hexamethylene diamine & adipic acid or its derivatives; 5-ply (6). Weave: 2/2 basket (2 ends weaving as 1 and 2 picks/shed). Weight: 13.0±0.3 oz. Yarns/Inch: 40 min. in warp and fill. Breaking strength: 675 lb. min. in the warp; 650 lb. min. in the fill. Elongation: 20% min. in warp and fill. Non-fibrous material: 2% of dry weight of cloth. pH: 5 - 9.	Chloroprene synthetic rubber. Pigmented.	40	50		675	650	90	90						(73°) 16	(-20°) 20		35 min.	No. 1

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-D-21857A	Uncoated cloth shall be thoroughly scoured and heat treated to impart stability, so that the cloth shall not shrink more than 3% in the warp or 2% in the fill. Coating compound shall be uniformly applied so that one side shall have a min. coating of 19.0 oz/sq yd., and the other side shall have a min. coating of 9.0 oz/sq yd. Coated cloth shall be heat-vulcanized.	Color - Uncoated cloth shall have a natural color evolving from processing. Color of all rubber components shall be Black.	(4) See spec. for requirements for strapping, thread, webbing, bladder, valve chain, and closure rod. Abrasion: cloth shall be tested for 20,000 cycles without tearing through (5032). Permeability: the dunnage unit shall show no more than a 0.2 lb. pressure loss after 24 hours of testing (4.4.2.1).	Intended Use - The dunnage unit is a special design, highly resilient, light weight inflatable air mattress used for tightening and cushioning loads, absorbing impact shocks, and reducing load vibration during common carrier transit. The dunnage unit is intended to replace timber shoring and is capable of being placed in position and inflated by one man. Dunnage units are capable of multiple usage to restrain palletized loads, large boxes, and irregularly shaped commodity containers. Dunnage units may be used singly or in series to fill voids as determined by load spacing in the carrier.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	Flame Resistance (5903) After Flame sec min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp 70°F	Flexibility Cm. Max. Warp -40°F	Bursting Strength Psi Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth, Coated (Neoprene, Asbestos, Glass, Cotton; Aluminized) MIL-C-21890 (NAVY)	Warp: 100% continuous filament glass fiber. Filling: 2-ply; one end of asbestos-cotton blend (Underwriter's Grade); one end of continuous filament glass fiber. Weight: 11.8 oz max. Weave: 2/1 right twill. Yarns/inch: 60 in the warp; 38 in the fill. Breaking strength: 90 lb. in the warp; 70 lb. in the fill. Tearing strength: 6 lb. in the fill. Fiber content: 55% asbestos; 27% glass 18% cotton.	Black neoprene rubber with flameproofing additives. Pure aluminum.	-	19.0	(1)	90	70			30 (initial) 25 (after stretching)	2	2	1.5	1.5				

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-21890	Neoprene coating applied to back of cloth. Coated cloth shall be fully vulcanized. No strike through of coating to uncoated side. Cloth may be dusted on coated side to prevent blocking. Weight of coating: 16.0 oz/sq yd max. Aluminum coating shall be applied to cloth face to produce smooth, highly reflective surface. Aluminum film shall not crack, flake, blister, or peel during or after preflex, exposure to the globar, or postflex (4.4.2). Cloth may be untreated for not more than ½ in. from each selvage edge.	Color - Neoprene coating shall be Black. Aluminum surface shall match Navy shade aluminum 3900.	(4) There shall be no evidence of cracking on either side after exposure to low temps. (5874). No blocking on either side; no visible loss of reflectance on aluminum side at high temps. (5872). Neoprene coating shall not tear or delaminate (5872). Aluminum coating shall not separate from base cloth (4.4.3). Flexibility: no cracks or seperations on either side (4.4.1).	Intended Use - In the manufacture or protective clothing for fire fighters' outfits and other heat protective, proximity garments.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb.		Hydrostatic Pressure High (5512)		Flame Resistance (5903) After Flame sec. min		Flame Resistance (5903) Char Length Max."		Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F			W	F	W	F	70°F	-40°F			
Cloth, Laminated, Rubber on Nylon, Inflatable Floor MIL-C-22427 (WEP)	Yarn: bright commercial nylon polyamide of polyhexamethylene adipamide. Pile cloth shall consist of 2 nylon cloths joined by a min. of 30 pile yarn/sq in so that cloths are spaced a min. of 1 in. apart after heat setting. Wgt: 7.0±0.5 oz. Yarns/in: 50±2 in. warp and fill; 30 in pile. Height of pile: 1 in. Yarn size: warp-2-ply 70 den.; fill-singles 210 den.; pile-2-ply 70 den. or singles, 210 den. Weave: face & back-plain; Pile thread: fast pile or W. Cover cloth shall be nylon, 1.0± 0.1 oz. plain weave. 90±2 yarns/in. warp & fill. Breaking strength: 40 warp and fill. Calendered, scoured, heat set. (6). pH: 6 - 8.	Coating & laminating compound shall be 80% by volume min. new plantation rubber. Balance of softeners, curing agents, anti-oxidants, & reinforcing materials. Pigmented. Pigment of finess to pass through 325 mesh screen. Foundation coat & rubber shall not injure base cloth or contain ingredients which would bloom to the surface or affect coating adhesion or bondability of finished cloth. No rubber substitutes shall be used & anti-oxidant used must retard aging in service. Compound shall be cured in sheets.	30	32	(1)	(a) 2500 (initial) 85% (after heat aging)	2500 (initial) 85% (after heat aging)											7 (initial) 6 (after heat aging)	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-22427	Coating shall be applied with a spreader, using multilayer application technique. Foundation coating shall be applied to base cloth to insure required adhesion. Rubber coating shall be applied to each side of pile cloth. On top of coating on each surface shall be applied the nylon cloth, to which, in turn, shall be applied the natural rubber. Pigment shall be incorporated in outer-most coatings. Laminated cloth shall be cured, and cured cloth may than be dusted with talc or zinc stearate.	Color - Color of finished laminated cloth shall be uniform and an app. match to color number 33538 lusterless Yellow of Fed. Std. 595.	(a) Method No. 4111 of Fed. Std. 601. Cloth shall be a max. of 4 weeks of age at time of release for shipping. Permeability to hydrogen: 4 L/M^2. Permeability to helium: 2.5 L/M^2 (see spec. for requirements after exposure to high and low temps.) Cloth shall show no signs of cracking after exposure to low temps (4.5.10). Folded cloth shall not be tacky or adhere to itself after exposure to high temps. (4.5.11). Coating shall not become stiff and brittle or soft and tacky after heat aging. Adhesion between plies and coating shall be not less than 6. Breaking strength shall be at least 85% of original (4.5.12). Cloth shall show no signs of air leakage at a pressure of 5 lb/in^2 for 5 min. (4.5.13). Elongation: Initial- 500%. After heat aging- 75% of original. Free sulfur: 0.2% max. Hardness, Shore durometer: 50 ± 5.	Intended Use - In the manufacture of the MK 12A-1 inflatable floor for life rafts.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Psi Min. (5122)	Adhesion lb/2" wide (5970) W	F	Blocking Scale rating (5872)
Cloth, Nylon, Marquisette; Metalized						(5102)		(5134)												
MIL-C-22156 (AER)	Bright nylon Reverse Doupe weave. Warp: singles, 260 den., 17 filament. Fill: 2-ply, 260 den., 17 filament.	Metalizing: silver. Protective coating: polymer or copolymer of vinyl chloride or vinyl chloride-acetate resin. Plasticized & pigmented.	8.0±0.5		46 ±1	140	150	11	20									3.5	5.0	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-22156	Base cloth shall be metallized to produce a max. resistance of 10 ohms/sq ft. Outside protective coating shall be applied to form an envelope around yarns in both warp and fill directions, thereby leaving the interstices substantially open. Radar reflecting surface shall be produced (4.4.8).	Color - Color of finished cloth shall be white.	Selvage shall be double density 1½ in. wide woven on each edge. Three 1 in. double density reinforcing strips shall be woven in, equally spaced in width of the cloth. Yarns/in: 40 in the warp; 22 in the fill. Flame resistance: no less than 2 min. to consume (5910). Air permeability: 950 CFM/sq ft min., .5 in. water pressure drop (5450). Open area: 99.9%. No cracking at low temps. (4.4.5). No cracking or flaking at exposure to hydrocarbon fluid (4.4.6). No adhesion of surfaces at high temps.	Intended Use - In the manufacture of radar reflective tow targets and equipage.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min		Char Length Max"		Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Cloth, Coated; Fire, Water, Mildew and Weather Resistant MIL-C-22524A (SHIPS) Amd. 1								(5134)											
Class 1- 12±10% oz.	Nylon	Of a character that finished cloth will be suitably resistant to fire, water, mildew & will not deteriorate when used outdoors. It shall not be hygroscopic or cause dermatitis when cloth to which it has been applied is handled. Finished cloth shall not exert any corrosive action on metallic grommets.	12±10%		(1)	180	160	7	6	250	5	5	5	5				12	No. 2
Class 2- 15±10% oz.	"		15±10%		(1)	300	260	12	10	250	5	5	5	5				12	No. 2
Class 3- 18±10% oz.	"		18±10%		(1)	500	300	30	25	250	5	5	5	5				12	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-22524A Class 1 Class 2 Class 3		Color (1). Colorfastness- "fair" to light (5660).	Mildew resistance: cloth shall show no more than traces of surface growth and lose no more than 15% of strength due to mildew attack. Cloth shall show the same water resistance after weathering, and the same flame and mildew resistance after weathering and water leaching. No cracking or flaking at low temps. initially and after weathering (5874). Flexibility: bending moment of 0.0900 in-lb. max. initially; of 0.150 in-lb. after heat aging; and of 0.1000 in-lb. max. after exposure to low temp. (5202-5870). Shrinkage: 3% in each direction after heat aging (5870). Cloth shall not lose more than 25% of breaking and tearing strength after weathering. No cracking or flaking of coating after exposure to ozone (4.4.1).	Intended Use - In the manufacture of various covers and awning providing protection under varying climactic conditions during prolonged outdoor use.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min. W	Flame Resistance (5903) After Flame sec. min. F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Coated, Glass, Vinyl Coated, Fuel and Flame Resistant																			
MIL-C-22787 (SA) Amd. 1	Cloth, glass conforming to Class C, for 4, Fiber D, cloth n. 126 of MIL-Y-1140.	Flexible high-polymer vinyl resin. Flame resistant. Pigmented.	11	14	(2) 30 min.	205	185			200 (initial) 200 (after cold crack) 200 (after heat aging)	2	2	3	3				12	No. 3
Cloth, Coated, Nylon, Copolymer of Butadiene and Acrylonitrile (Rubber)																			
MIL-C-22916 (MC)	Nylon 66 (polyhexamethylene adipamide). W: semi-dull, 40 den., 13 filament. F: bright 70 den., 34 filament. Relaxed filling yarn mandatory in order to minimize pirn taper barre. Weight: 1.4-1.6 oz. Yarns/Inch: 116 W; 76F. Breaking strength: 50. Weave: 2/1 right twill. Selvages composed of 3+4 ends, weaving 2 as 1. Feat shrunk & dyed. Shrinkage: 2% max. W, 1% max. F.	Rubber copolymer of butadiene and acrylonitrile, plasticized with phosphate or phthalate ester plasticizers. Pigmented.	-	4.8	(1)	50	50	17	17	65 (see spec. for requirements after testing)									No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-22787	Base cloth shall be impregnated with coating, applied equally and uniformly to both sides.	Color-Coating shall be pigmented to match Green No. 34079 of Fed. Std. 595.	(4) Thickness: 0.02 in. max. Shall not become soft, tacky, stiff or brittle after acc. weathering (5804). Cloth shall not curl, become stiff, or crack on bending after exposure to hydrocarbon test fluid or hydraulic oil (4.5.1-4.5.2).	Intended Use - As a covering for detachable compartments.
MIL-C-22916	Cloth shall be coated on reverse side only and then cured. Uniform finish. Coated side shall be dusted with a micaceous talc of 98/100 mesh to prevent blocking. Reverse side shall be side with the twill line running up from right to left. No strike through of coating to uncoated side of cloth.	Color - Base cloth: cloth shall be dyed with special nylon dyes or other dyes that will show no more striation in finished coated cloth than standard sample. Cloth shall match standard sample Green 2200 (3). Coated cloth: cloth shall match standard shade sample Green 2200 in luster and color (3). Colorfastness - Uncoated side shall be equal to standard coated sample.	(4) All selvages shall be trimmed from coated cloth.	Intended Use - In the manufacture of rainwear.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec Min W	Flame Resistance (5903) After Flame sec Min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts Min (5122)	Adhesion lb/2" wide (5970)	Stocking Scale rating (5872)
Cloth, Laminated, and Tape, Coated Cloth, Natural Rubber on Nylon MIL-C-23070 (WEP) Amd. 1																			
Variety C- Laminated cloth	Cloth shall conform to: MIL-C-19377 & MIL-C-7020, Type II, except that it need not conform to air permeability and permanence of finish requirements. Any defect shall be marked with a single strand thread which shall not increase cloth thickness, and, when coated, shall allow uniformity of coating on spreading machine. Thread shall be visible after coating.	Not less than 80% by volume of new plantation natural rubber. Balance shall be softeners, curing agents, antioxidants, & reinforcing materials. Compound for outer coatings shall be pigmented. Pigment shall pass through 325 mesh screen. Compounds shall not be injurious to base cloth & shall contain no ingredients which would bloom to the surface or affect properties of cloth. Compounds shall be such that they will cure properly and provide proofing films insoluble to water. See spec. for table of physical properties of cured coating compound.	-	12.5 (1)		300 (initial)	250										7	No. 2
						90% (after heat aging)	90%												
						75% (after weatherometer)	75%											5	
Variety T- Coated cloth tape			-	7.0 (1)															

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-23070 Variety C Variety T	Foundation coating compatible with base cloth and remainder of coating shall be applied to achieve adhesion. Coating shall be applied to base cloth by spread coating operation. Compound shall be applied in sequence of operations so that both sides of each cloth ply shall be coated and laminated. Pigment shall be incorporated in outermost coatings. Laminated cloth shall be cured. Cured laminated cloth may be lightly dusted with talc or zinc stearate.	Color - Base cloth shall be undyed. Coated cloth: finished cloth and tape (1). Usual color selected is Color No. 33538 Yellow (usually on straight ply side) of Fed. Std. 595. Normally, pure gum rubber coating of cloth tape, which is not fully cured, shall not be pigmented. Opposite side shall match selected color.	Cloth & tape shall not be more than 90 days old prior to date of release for shipment. Laminated cloth: Cloth shall not become soft and tacky or stiff and brittle after heat aging (4.6.9). Cloth shall not become discolored, brittle, or show signs of blooming after weatherometer (4.6.10). Cloth shall show no signs of cracking after exposure to low temps. (4.6.11). Cloth shall not become tacky or adhere to itself after exposure to high temps. (4.6.12). Permeability to hydrogen: Initial- 4 L/M²/24 hours. See spec. for requirements after testing (5460). No air leakage under pressure (4.6.13). Coated cloth tape: Edges of tape shall be smooth, not pinked. Tape shall not be dusted. Calendered uncured gum coating side of tape shall be protected by a suitable liner which shall be capable of separation without affecting adhesion or cementability of cloth. Permeability to helium: 2.5 L/M²/24 hrs. See spec. for requirements after testing (5460).	Intended Use - In inflatable life rafts.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Min W	Flame Resistance (5903) After Flame sec. Min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth, Coated and Laminated, Polychloroprene on Nylon, and Tape, Polychloroprene, Unsupported MIL-C-23926 (WEP) Amd. 1																			
Type I- Cloth, coated, rubber, knitted stretch nylon.	Plain jersey circular knit made of stretch nylon yarns. Yarns shall be nylon polyamide of polyhexamethylene adipamide. Tape shall be made of polychloroprene.	Not less than 60% by volume of polychloroprene. Balance shall be softeners, curing agents, anti-oxidants, and reinforcing materials. Coated shall be natural color or pigmented. Coating compound shall be compatible with base cloth & contain no waxes or other ingredients that may bloom to the surface to adversely affect coating adhesion or cementability. Ingredients of compound shall be water soluble after curing.	-	19.0	(1)	90	45												8
Type II- Cloth, laminated, rubber, neck and wrist seal.			-	24.0	(1)	90	45												8
Type III- Tape, rubber, unsupported. Class 1- Pressure sensitive tape.					(1)														
Class 2- Non-pressure sensitive tape.					(1)														
Type IV- Cloth, coated, rubber, knitted stretch nylon, uncured, semi-cured.			-	23.0	(1)	90	45												8

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-23926 Type I Type II Type III Class 1 Class 2 Type IV	After application of a foundation coat which must be compatible with base cloth & remainder of compound, coating compound shall be applied by spreader or calender coating operation. Coating shall be applied to one surface, side with smooth surface to provide best coating adhesion on Types I & IV, and applied between 2 cloths of Type II. Cloth shall be cured. Cured coating may be lightly dusted with talc or zinc stearate. Type IV cloth shall be uncured or partially cured (1).	Color - Base cloth: dyed (1). Coating: coating shall be natural color or pigmented during compounding so that cured compound and base cloth shall have matching color. Tape (1).	Elongation at break, 2 in. wide strip, Types I, II and IV: 100% min. in the wales: 250% min. in the courses. Coating thickness: Types I & II- 0.012 in. min.; Type IV- 0.016 in. min. Modulus at 75% elongation: Types I & II- load required to maintain 75% elongation on 2 in. wide specimen, in course direction, after specimen has been stretched 150%, shall not exceed 3.0 lb. (4.4.8). Resistance to flexing: Types I and II shall show no tears in coating, no separation of coating from cloth, and no leakage of water (4.4.9). Types I, II & IV shall not crack or leak water after exposure to low temps. (4.4.10). After being stretched to 100% for 16 hours, tension set of Types I, II, and IV shall not exceed 13% when examined 3 hours later (4.4.11). Class 1 tape shall have surface coating of polychloroprene, uncured or partially cured, covered with protective liner; cured side lightly dusted with talc. Class 2 tape: same cure as coated cloth; one side with protective liner; other side dusted with talc.	Intended Use - In the fabrication of insulation garment and continuous-wear anti-exposure coveralls designated as Mark 5.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Nylon, Metalized MIL-C-25694A (USAF) Amd. 1	Marquisette woven from 260 den., 17 filament high tenacity nylon. Yarn shall be a polyamide from hexamethylene diamine & adipic acid or its derivatives. It shall have a melting point of 250°±6°C. Weight: 3.25 oz max. Yarns/Inch: 40 in the warp; 22 in the fill. Ply: 1x2. Thickness: 0.0170 in. max. Breaking strength: 100 in the warp; 125 in the fill. Tearing strength: 8 in warp and fill. Air permeability: 3850-4000 ft³/min/ft² at 5 in. Weave: 4-end leno, repeating on 2 picks (8). (6). Double density selvage, 1 in. min. woven each side. Permanent finish: air permeability shall not change more than 15%; thickness more than 10%; and cloth shrinkage shall be 2% min. in the warp and 1% min. in the fill. pH: 5.0 - 9.0.	Metallic silver	-	4.0	(1)	(5104) 100	125	(5134) 8	8											

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-25694A	Base cloth shall be equally and uniformly metalized on each side to provide radar reflectivity. Metalizing shall be such to withstand normal folding and handling of cloth without excessive transfer to the hands.	Color - Base cloth: shall be natural in color.	Air permeability: 3750-3900 ft³/min/ft² at 5 in. (5450). Metalized cloth shall not crack or flake after exposure to low temps. (4.3.2.3). Cloth shall show no greater resistance to electricity than 10 ohms (4.3.2.4).	Intended Use - In the manufacture of aerial banner type tow targets.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903)				Flexibility Cm. Max. Warp (5204)		Bursting Strength Psi Min (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
											After Flame sec Min		Char length Max"						
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Cloth, Coated, Nylon, Chloroprene-Coated MIL-C-26712A (ASC) Amd. 1	210 den., 4-ply or 840 den., singles, continuous filament, high tenacity nylon polyamide of polyhexamethylene adipamide. It shall have a melting point of 482°±10°F. Weight: 8.50 oz. max. Yarns/Inch: 34 in the warp; 30 in the fill. Breaking strength: 425 in the warp; 375 in the fill. Weave: plain.	Not less than 60% chloroprene by volume. Balance shall be softeners, curing agents, anti-oxidants, & reinforcing materials. Pigmented in compounding process. Pigment shall contain no waxes or other ingredients that may bloom to the surface and adversely affect coating adhesion and cementability. Coating shall not contain any ingredients known to promote skin irritation or to have detrimental effect on nylon.	41.0	41.5	(1)	575 (initial) 90% (after aging)	525 (initial) 90% (after aging)											10 (initial) 3 (after aging)	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-26712A	Coating shall be applied equally to both sides of cloth.	Color - Unless otherwise specified, color of finished cloth shall be Black.	Thickness: 0.045±0.003 in. No blocking (5872). Cloth shall not crack at low temps. (4.3.2.3).	Intended Use - In aricraft pneumatic lifting bags.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5132)	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min	Flame Resistance (5903) Char Length Max"	Flexibility Cm. Max. Warp (5204)	Bursting Strength Pts min (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
			Min	Max		W F	W F		W F	W F	70°F	-40°F		
Cloth, Coated; and Tape, Rubber Coating on Nylon, For Pneumatic Life Rafts MIL-C-27268 (USAF)														
Type I- Tube fabric, 13.0 oz. max.	3.0 oz. Nylon, MIL-C-19377 (straight). 1.6 oz. Nylon, MIL-C-7020, Type II, (bias): except that silicone oil shall not be used and requirements for permanence and stability of finish shall not apply.	80% min. by volume new plantation rubber. Suitably compounded & properly vulcanized so that max. life under service conditions be obtained. No materials injurious to cloth or water soluble after vulcanization shall be used. No fillers,- processes, or any material which would tend to decrease life of the cloth shall be used. Cured in sheet form. See spec. for - table of physical properties of compound.	-	13.0	40 ±½	300 250 (initial) 85% 85% (after acc. weathering) 90% 90% (after oxygen aging)							14 (initial) 8 (after air aging)	
Type II- Tape fabric, 7.0 oz. max. (to be cut in bias tape 2" wide)	1.6 oz. Nylon, MIL-C-7020, Type II (see restrictions above).		0.85		2 ±1/8	100 (initial) 90% (after oxygen aging)							10 (initial) 7 (after oxygen aging)	
Type III- Floor fabric, 13.0 oz. max.	5.5 oz. Nylon, MIL-C-20696, Type II.		13.0		40 ±½	335 280 (initial) 80% 80% (after acc. weathering)		100					18	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-27268 Type I Type II Type III	Cloth shall be spreader coated, using no fewer than 5 coats/oz. of rubber/sq yd of surface covered. Rubber film shall be divided equally between plies that are doubled together. Cloth shall be cured in a liner of closely woven cloth of high thread count. Soapstone liners shall not be used.	Color - Unless otherwise specified, color of finished cloth and tape shall be Orange-Yellow conforming to color No. 33538 of Fed. Std. 595. Color pigment shall be incorporated in coating compound and shall be permanent for life of cloth. Pigment shall be of fineness to pass through standard 325 mesh screen.	Types I & III: Cloth shall not be tacky after air aging (4.3.2.3). Cloth shall show no blocking (5472). Cloth shall not crack or flake at low temps. (4.3.2.2). Type I: Helium permeability: Initial- 5.0 L/M²/24 hrs. max.; After aging: 7.0 L/M²/24 hrs. max. Elongation: Initial- 25%; After acc. weathering- 22%; After oxygen aging- 25%.	Intended Use - In the fabrication of pneumatic life rafts. Specifically intended for use in fabrication of Type F-2B, twenty-man, pneumatic life raft. Rubberized floor cloth should be used for all patches or pockets attached to raft.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5134) W	Tearing Strength Lb. (5134) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Min W	Flame Resistance (5903) After Flame sec. Min F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp 70°F	Flexibility Cm. Max. Warp -40°F	Bursting Strength Psi Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth, Coated, Glass, Aluminum Face, Silicone Rubber Back																			
MIL-C-27347 (USAF)	100% continuous filament glass yarns. Weight: 3.5 ±0.5 oz. Thickness: 0.009 in. max. Weave: Crowfoot satin. Yarns/Inch: 64 in the warp; 60 in the fill. Breaking strength: 130 lb. in the warp; 90 lb. in the fill.	Silicone rubber. Vacuum distilled aluminum.	16±2		(1)	150	150	(5134) 3	3										
Cloth, Coated, Butyl, Polyamide, Nonmelt, Fuel and Oxidizer Resistant																			
MIL-C-38149 (USAF)	Nonmelting, high strength polyamide. Melting point: over 800°F. Weave: 2/2 basket. Weight: 0.009 in. max. Yarns/Inch: 64 in warp and fill. Breaking strength: 185 in warp and fill.	Butyl rubber composition. Pigmented.	15	17	(7) 39 min.	185 (initial) 75% (after weathering)	185 75%	(5134) 8	8		15	15	3	3				8.25	No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-27347	Base cloth shall be evenly and uniformly coated on one surface with silicone rubber. On opposite surface shall be a highly reflective layer of aluminum, directly adhered to warp face by means of a curable, highly flexible, solvent resistant adhesive bonding composition.		Neither coating shall show evidence of cracking, stiffening, flaking, or separation in cold crack (4.6.1.1). Thickness: 0.015± 0.0015 in. There shall be no evidence of blocking (5872). Stiffness: 0.0130 in-lb max. (5202). Thermal radiation resistance: no direct thermal transmission; no visible damage; no visible light transmission (4.6.1.2). Flame resistance: Flame time- 10 sec. max.; Glow time- 2 sec. max. (5902).	Intended Use - As a thermal curtain to protect personnel and equipment while exposed to high intensity thermal radiation for a brief period of time.
MIL-C-38149	Coating shall be applied evenly to both sides of base cloth, after which cloth shall be fully cured.	Color - Coating shall be pigmented a tan color. Both sides of coated cloth shall match standard shade.	(4) Thickness: 0.017 in max. Abrasion resistance: 300 cycles min. (5306). No visible cracking or flaking after exposure to low temps. (5874). After glow: 20 sec. max. Toxic gas permeability: Fuel- 0.01 mg/in^2 (max. leakage) (4.6.5). Oxidizer- 0.01 mg/in^2 (max leakage) (4.6.5). Coated cloth shall be essentially odorless (4.5.2).	Intended Use - In the fabrication of missile fueler's protective clothing.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec min	Flame Resistance (5903) Char Length Max"	Flexibility Cm. Max. Warp (5204)		Bursting Strength Pts min (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (4172)
			Min	Max		W	F	W	F		W F	W F	70°F	-40°F			
Cloth, Coated, Nylon, Vinyl Coated MIL-C-40039B	Nylon twill, 1.6 oz., heat set, conforming to Type I of MIL-C-577.	Polymerized or copolymerized virgin vinyl chloride resin, plasticized with phosphate or phthalate ester plasticizers exclusively. Pigmented.	6.0	7.3	(1)	90	80	24	18	40 (initial) 20 (after strength of coat.) 20 (after water immersion)			8			6 (initial) 5 (after water immersion)	No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-40039B	Base cloth shall be coated on both sides. One side shall be more lightly coated than the other. Lighter coating shall be on face side of cloth. Face side shall be side with twill line running from lower left to upper right. At least one coat of coating compound shall be applied directly to each side of cloth.	Color - Color of coated cloth shall be OG-207 and shall match standard sample for shade and luster(3).	(4-5) Cloth shall exhibit no softness, tackiness, stiffness, or brittleness after weathering (4.4.9). Cloth shall not leak (4.4.5). Abrasion resistance: no loose fibers of base cloth shall be exposed in center 1 in. of abraded portion (4.4.8). There shall be no cracking, flaking, or separation of coating from base cloth after exposure to low temps. (4.4.6).	Intended Use - In the manufacture of the Poncho, Lightweight, With Hood.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min W	Flame Resistance (5903) After Flame sec. min F	Flame Resistance (5903) Char length Max" W	Flame Resistance (5903) Char length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth, Laminated, Fabric, Air-Retaining Mattress MIL-C-40056 (CE)	Cloth shall be free of all sizing & foreign matter. Air mattress cover cloth 30 den., type 300, high tenacity nylon yarn. Weave: plain 1/4 rip-stop. Yarns/Inch: 105 in warp and fill. Breaking strength: 45 lb. in warp and fill. Tearing strength: 3 lb. in warp and fill. No splices permitted. Air-mattress cloth: 2 backings of plain weave cloth of 75 ends/inch of 70 den. 2-ply, type 300 high tenacity nylon yarn in the warp and 40 picks of 210 den. type 300 yarn in the fill, joined by 30-32 pile threads/sq in, included as warp yarns in plain weave of both backings. Pile threads of equal length throughout. One length without splices/unit package.	Polychloroprene. Not less than 60% by volume of chloroprene. Balance shall be only softeners, curing agents, antioxidants, and reinforcing materials and shall pass through a 100-mesh sieve conforming to RR-S-366. Water absorption shall be held to a min. Tensile strength: 1800 psi. Elongation: 500% min. Loss of tensile strength and elongation shall not exceed 10% after acc. aging of 96 hrs. or acc. weathering of 100 hrs.	23.40	(7) 57 (air mattress cloth) (8) 53 (cover cloth)		125	150	(5134) 6	10									4.5 (lb/1")

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-40056	Cloth shall consist of air mattress cloth sandwiched between 2 plies of cover cloth. See spec. for details of construction. Compound shall be applied at the rate of not less than 7 spreader coats for each oz. of compound/sq yd of cloth. Tolerances: ±5% for each weight of coating compound & for each weight of finished cloth. Cloth shall be cured to have a smooth, even finish. Curing in soapstone will not be permitted. Proofed cloth shall not be overcured or show excessive watermarks. Ingredients such as soapstone, talc, paraffin, etc., which will affect strength of cemented seams or joints shall not be embedded in surface of cloth. Compound, outside proofing, or cloth shall be treated to avoid formation of or neutralize any acid which might deteriorate strength or service life of cloth.	Color - When specified, compound for outside or exposed coatings shall have a compatible coloring agent added. Color shall match Olive Drab Color 7 in conformance to MIL-D-504, and shall have an infrared reflectance of 12.0-5.0% in both spectral regions.	Air mattress cloth shall have a 2 in. selvage on each side. Cloth shall not crack when folded on itself at low temps. (4.4.3.3). Permeability of each side of cloth to hydrogen shall not be more than 6 L/M^2/24 hrs.	Intended Use - In the manufacture of pneumatic structures.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide 5970	Blocking Scale rating 5872
Cloth, Laminated, Vinyl-Nylon, High Strength, Flexible MIL-C-43006B, Amd. 1																			
Type I- Heavy duty Class 1- Regular Class 2- Special	Open mesh woven nylon cloth.	Vinyl film shall conform to requirements of Type II of L-P-375. Plasticizers other than those specified may be used subject to the approval of the contracting officer.	17.1	19.8	50 ±½ (initial)	295	295	93 (5134)	93	425	5	5	4.5	4.5	14	20 (+20°)	25		No. 3
					177 (after abrasion)		177										20		
					162 (after acc. weathering)		162												
Type II- Medium duty Class 1- Regular Class 2- Special			9.0	11.0	54 ±½ (initial)	90	90	32	32	200	5	5	7	7	9	15	20		No. 3
					45 (after abrasion)		45	20	20								15		
					49 (after acc. weathering)		49												
Type III- Light duty Class 1- Regular Class 2- Special			5.4	6.6	54 ±½ (initial)	75	75	28	28	175	5	5	7	7	8.5	11	15		No. 3
					23 (after abrasion)		23	15	15								12		
					41 (after acc. weathering)		41												

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-43006B Type I Class 1 Class 2 Type II Class 1 Class 2 Type III Class 1 Class 2	Laminated cloth shall consist of the open mesh nylon cloth laminated between 2 layers of vinyl film. Finished cloth shall have one comparatively smooth side. The other side shall be rough, in that the areas located over the points at which the yarns cross will be raised, while areas between yarns will be depressed. Smooth side shall be face side.	Color - Finished cloth shall be natural color of vinyl film or shall match applicable color number of Fed. Std. No. 595, or shall match an approved color standard for color specified (3).	(4-5)	Intended Use - For general use in the fabrication of protective covers. It may be reinforced for such items as truck covers or tarpaulins made of this material, but does not cover the articles themselves. Cloth provides high tear strength. Design concepts should include, however, means of securing end items to minimize excessive wind whip.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec/min W	Flame Resistance (5903) After Flame sec/min F	Flame Resistance (5903) Char length Max" W	Flame Resistance (5903) Char length Max" F	Flexibility Cm. Max. Warp 70°F	Flexibility Cm. Max. Warp -40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5972)
Cloth, Coated, Cotton, Resin Modified Butyl Coated, Acid and Fuel Resistant MIL-C-43062A	Mercerized cotton airplane cloth conforming to MIL-C-5646. Cloth shall not contain more than 0.003% copper and 0.0015% manganese.	Resin modified butyl rubber. Pigmented.	10.0	11.0		80	80	960 (grams)	960	80 (initial) 60 (after strength of coat) 60 (after cold crack)					7.5	8.0 (-20°)		7	No. 1

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-43062A	Base cloth shall be coated on both sides. Approximately 25% of coating shall be applied to one side & the balance to the other side. After coating, cloth shall be dusted on both sides with whiting, talc, or other finely divided mineral material which does not support mildew growth to produce a dull, uniform finish.	Color - Coating compound shall be pigmented Black.	(4-5) Nitric acid surface tack, rating: No. II (4.4.5.5). Abrasion resistance: no visible loose fibers of base cloth shall be exposed in center 1 in. of abraded portion (4.4.3). Fuel resistance: no cracking, stiffening, flaking, or separation of coating from base cloth (4.3.2). Cloth shall not become soft and tacky or stiff and brittle after acc. weathering (4.4.4). Acid resistance: no evidence of cracking, stiffening, flaking, separation of coating from base cloth or change in color of indicator paper (4.4.5.3). Vulcanized coated cloth shall be free of objectionable odor. Odors normally attributed to modified butyl rubber shall not be regarded as objectionable. (4.4.6).	Intended Use - For the manufacture of protective clothing which is resistant to rocket fuels and oxidizers and suitable for use at low temperatures. Protective clothing shall be assembled using vulcanized coated cloth and vulcanized after assembly of clothing.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. min W	F	Char Length Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Pts. Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Scale Rating (5872)
Cloth, Coated, Nylon, Vinyl Coated (For Air Supported Shelters) MIL-C-43086, Amd. 1	Cloth shall be either: Type I: continuous multifilament bright high tenacity nylon. 2/2 basket weave. Yarns for warp and fill shall be 840±20 denier. Weight: 5.5-6.0 oz. Yarns/Inch: 24 in the warp; 26 in the fill. Breaking strength: 275 in warp and fill. Type II: continuous multifilament bright high tenacity nylon. Modified oxford weave in which 2 ends, weaving as 1, alternate across warp with 2 ends weaving plain. Warp yarns shall be 840±20 den., and fill yarns shall be 1680 ±80 den. Weight: 5.5 - 6.0 oz. Yarns/Inch: 24 x 13. Breaking strength: 275. pH: 5.0 - 8.5.	Virgin vinyl chloride or vinyl chloride-acetate copolymer plasticized with phthalate or phosphate ester plasticizers exclusively. Pigmented.	19	21	(1)	(5102) 300 300 (initial) 80% 80% (after acc. weather.)		(5134) 100 100		300	5	5					10 (dry) 8 (wet)	No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-43086	Cloth shall be coated on both sides. Face of cloth shall be coated with 8.0-9.0 oz/sq yd. of coating, and back shall be coated with 5.0-6.0 oz/sq yd of coating.	Color - Finished cloth shall be white in color to match color 17855 of Fed. Std. 595. Colorfastness - There shall be no appreciable change in color after acc. weathering (4.4.7).	(4-5) There shall be no cracking at -10°F (4.4.3). Oil resistance: no leakage (4.4.4). Aromatic carbon resistance: no cracking (4.4.5). Cloth shall not crack when folded sharply on itself or show any signs of blooming or bleeding after acc. weathering (4.4.6.1).	Intended Use - In the fabrication of Tent, Air Supported, for Track and Aquisition Radar (Conus) and for other air supported shelters where intended use does not involve erecting and striking at temperatures below minus 10°F.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) W	Flame Resistance (5903) F	Char Length Max" W	Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min (5122)	Adhesion lb/2" wide (5370)	Blocking Scale rating (5872)
Cloth, Coated (Chloroprene Base Coated, Chlorosulphonated Polyethylene Top Coated) MIL-C-43285 (GL)																			
Type I- Cloth, Polyester	Polyester conforming to Type I of MIL-C-43286.	Black base coating & green & white undercoating shall be chloroprene rubber plasticized only with phthalate or phosphate ester plasticizers. Pigmented. An organic isocyanate may be added to black base coating to achieve required adhesion. Green and white top coating shall be chlorosulphonated polyethylene plasticized only with phthalate & phosphate ester plasticizers. Pigmented.				(5102)		(a)		(a)					(a)				
Class 1- Olive Green face, Black back.			13.0	15.0	(1)	160	160	3500	3000	200	3	3	4.5	4.5	13	20		16 (dry)	No. 2
Class 2- White face, Black back.			13.0	15.0	(1)	160	160	3500	3000	200	3	3	4.5	4.5	13	20		12 (wet)	No. 2
Class 3- Olive Green face, White back.			15.0	18.5	(1)	160	160	3500	3000	200	3	3	4.5	4.5	13	20		"	No. 2
								(grams)											
Type II- Cloth, Nylon	Nylon conforming to Type II of MIL-C-43286.							(a)		(a)					(a)				
Class 1- Olive Green face, Black back.			13.0	16.0	(1)	275	275	10000	10000	200					13	20		16 (dry)	No. 2
Class 2- White face, Black back.			13.0	16.0	(1)	275	275	10000	10000	200					13	20		12 (wet)	No. 2
Class 3- Olive Green face, White back.			16.0	20.0	(1)	275	275	10000	10000	200					13	20		"	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-43285 Type I Class 1 Class 2 Class 3 Type II Class 1 Class 2 Class 3	Class 1 cloth shall be coated in the sequence: (a)Each side coated with 2±.25 oz/sq yd of black base coating. (b)Face side coated with 2.7±.5 oz/sq yd of green undercoating. (c)Face side top coated with 2.25±.5 oz/sq yd of green top coating. Class 2 cloth shall be coated in the sequence: (a)Each side coated with 2±.25 oz/sq yd of black base coating. (b)Face side coated with 2.7±.5 oz/sq yd of white undercoating. (c)Face side top coated with 2.25+.5, -.25 oz/sq yd white top coat. Class 3 shall be coated in the sequence: (a)Each side coated with 2±.25 oz/sq yd black base. (b) Face coated with 2.7±.5 oz/sq yd of green undercoating. (Continued)	Color - Black base coat shall be pigmented a suitable shade of black. Green undercoating shall be pigmented to match Olive Green 207. White undercoating shall be pigmented to match color number 37875 of Fed. Std. 595. Green top coating shall be pigmented to match Olive Green 207. White top coating shall be pigmented to match color number 37875 of Fed. Std. 595. Standard samples available for all shades (3).	(4-5) (a)See spec. for requirements after testing. Coated cloth shall not become stiff, brittle, soft, or tacky, and there shall be no cracking or crazing when flat or folded sharply on itself by hand, face out, after acc. weathering. In addition, there shall be no appreciable change of color or exudation of plasticizer. (4.4.1.2).	Intended Use - In the manufacture of air supported shelter tents. Air supported shelter is constructed with 2 layers as follows: Class 1 cloth is used for the outer layer, and the Olive Green coated side of the cloth is exposed on the outside of the shelter. Class 2 cloth is used for the inner layer and the white coated side of the cloth is exposed on the inside of the shelter. Class 3 cloth is used for end closure areas.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specification	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041)		Width Inch	Breaking Strength Lb. Min. (5100)		Tearing Strength Lb. (5132)		Hydrostatic Pressure High (5512)	Flame Resistance (5903)				Flexibility Cm. Max. Warp (5204)		Bursting Strength Psi Min (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
											After Flame sec. Max.		Char length Max."						
			Min	Max		W	F	W	F		W	F	W	F	70°F	-40°F			
Cloth, Coated (Chlorosulfonated Base Coated, Chlorosulfonated Polyethylene Top Coated) MIL-C-43285 (GL) (Continued)																			

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-43285 (Cont'd)	(c)Face side top coated with 2.25± .5 oz/sq yd green top coating. (d)Back side coated with 1.25±.25 oz/sq yd of white undercoating. (e)Back side top coated with 1.25+ .5 -.25 oz/sq yd white top coating. All types and classes shall be dusted after coating and before vulcanizing with whiting, talc, or other finely divided mineral material which does not support mildew growth.			

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Max. W	Flame Resistance (5903) After Flame sec. Max. F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp 70°F	Flexibility Cm. Max. Warp -40°F (0°)	Bursting Strength Psi. Min. (5122)	Adhesion lb/2" wide (5970)	Blocking Seals rating (5872)
Cloth, Coated, Cotton, Vinyl Chloride or Chloroprene Coated MIL-C-43410	Cotton silesia conforming to Type I of MIL-C-326. Requirement for seam efficiency shall not apply. Cloth to be coated with chloroprene rubber shall have a copper content of not more than 0.003% and a manganese content of not more than 0.0015%. pH: not less than 5.5.	Polymerized or copolymerized virgin vinyl chloride resin or chloroprene rubber. Vinyl compounds shall be plasticized with phosphate or phthalate ester plasticizers exclusively. All compounds shall be pigmented. Chlorinated paraffins and polychlorinated polyphenyls may be used as flame inhibitors. Use of water soluble ingredients and reclaimed rubber is prohibited.	12.0	14.0	(1)	50	50	480 (grams)	480	40	2 (initial) 2 (after acc. weathering)	2	3.5 5.0	3.5 5.0	12	15		8	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-43410	Cloth shall be coated on both sides. One side shall be coated with no more of coating compound than is necessary to meet water absorption requirement. Remainder shall be used on the other side. Coated cloth shall be fused or vulcanized as applicable. When chloroprene rubber is used, coated cloth shall be dusted on both sides with whiting, talc, or other finely divided mineral matter that does not support mildew growth.	Color - Base cloth: color shall be natural. Coated cloth: color shall be OG-207. Standard sample available (3).	(4) Coating shall show no indications of cracking, flaking, or separation from base cloth after acc. weathering. Chloroprene coated cloth shall not become soft and tacky or stiff and brittle after acc. aging (5852). Water absorption of both types: 1% max (5504).	Intended Use - In the manufacture of clothing to be used by fire fighting personnel.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Overall Weight Oz/Sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. W	Flame Resistance (5903) After Flame sec. F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp 70°F	Flexibility Cm. Max. Warp -40°F (5204)	Bursting Strength Ft. Lb. Min. (5122)	Adhesion lb/2" wide 5970	Stocking Scale rating 5872
Cloth, Silica, Phenolic Impregnated MIL-C-81251 (WP)	Silica cloth conforming to CS 9349, Type II, except that it shall contain a min. of 96% silica.	Phenolic resin conforming to MIL-R-9299, Type II, Class 2.																	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-81251			(4) Uncured resin-impregnated cloth shall contain 28±3% resin solids by weight. Uncured resin-impregnated cloth shall contain 4-7% volatile matter by weight. Uncured resin-impregnated cloth shall have a resin flow of 15-21%. Cured cloth shall have a min. ave. flexural strength of 19000 psi at 75±5°F. No individual value shall be below 13000 psi (method 1031 of Fed. Std. 406). Cured cloth shall have min. ave. tensile strength of 12000 psi at 75±5°F. No individual value shall be below 11000 psi (method 1011 of Fed. Std. 406). Cured cloth shall have a min. specific gravity of 1.67 (method 5011 of Fed. Std. 406).	Intended Use - In rocket motors.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/Sq Yd (5041) Min	Max	Width Inch	Breaking Strength Lb. Min. (5100) W	F	Tearing Strength Lb. (5132) W	F	Hydrostatic Pressure High (5512)	Resistance (59 After Flex sec min W	F	Tear Strength Max" W	F	Flexibility Cm. Max. Warp (5204) 70°F	-40°F	Bursting Strength Psi Min (5122)	Adhesion lb/2" wide (5970)	Blocking Scale rating (5872)
Cloth, Coated, Asbestos and Cotton, Herringbone Twill, Aluminized MIL-C-82249A	Woven from yarns of blend of asbestos & cotton (Underwriter's Grade). Weight: 18.0-20.5 oz. Yarns/Inch: 33-37 in the warp; 24-29 in the fill. Weave: 3/1 herringbone twill reversing on 15 ends. Asbestos content: 80% min.	Vacuum deposited aluminum.	-	24.0	(1)	105	78	9	6		1	-	.5	-					No. 1
Cloth, Coated, Glass, Chloroprene Coated MIL-C-82254	Glass cloth conforming to Class C, form 4, Fiber D, Cloth No. 116 of MIL-Y-1140.	Chloroprene rubber, plasticized. Pigmented.	24.0	28.0	(7) 38 min.	120	120	2700 (grams)	1100	250 (initial) 200 (after weatherometer)								5	No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-82249A	Coating shall be applied to face of cloth (warp flush side) by means of a suitable adhesive. Resulting film shall have a highly reflective surface and shall be abrasion resistant.		(4) Stiffness, Bending moment: 0.055 in-lb. max. in warp and fill (5202). There shall be no separation of coating from base cloth (4.4.3). Coating shall not crack at low temps. (4.4.2). Reflectivity after abrasion: No visual discoloration of blotting paper; no evidence of flaking of coating (4.4.1).	Intended Use - In the manufacture of protective clothing for fire-fighters and other heat protective, proximity garments.
MIL-C-82254	Compound shall be applied equally & uniformly to both sides of cloth. Coated cloth shall be cured. After vulcanizing, cloth shall be dusted with whiting, talc, other finely divided mineral material which does not support mildew growth.	Color - Coated cloth shall match Black Number 27038 of Fed. Std. 595 or shall match approved color standard (3).	(4) Thickness: 0.022-0.026 in. Selvage edges may be trimmed, provided cloth meets specified width.	Intended Use - In the manufacture of protective coverings and items having similar uses. Cloth is not intended for use in wearing apparel or other items which may come in frequent or prolonged intimate contact with skin.

COATED CLOTHS

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/sq Yd (5041) Min	Overall Weight Oz/sq Yd (5041) Max	Width Inch	Breaking Strength Lb. Min. (5100) W	Breaking Strength Lb. Min. (5100) F	Tearing Strength Lb. (5132) W	Tearing Strength Lb. (5132) F	Hydrostatic Pressure High (5512)	Flame Resistance (5903) After Flame sec. Max W	Flame Resistance (5903) After Flame sec. Max F	Flame Resistance (5903) Char Length Max" W	Flame Resistance (5903) Char Length Max" F	Flexibility Cm. Max. Warp (5204) 70°F	Flexibility Cm. Max. Warp (5204) -40°F	Bursting Strength Pts. Min (5122)	Adhesion lb./2" wide (5970)	Blocking Scale rating (5872)
Cloth, Coated, Synthetic Rubber (Nitrile and Polychloroprene MIL-C-82255 (NAVY)																			
Type I- Cloth, Nylon, Flat Knit, Polychloroprene Coated.	Nylon, flat knit. Weight: 6.5±1.0 oz/sq yd.	Polychloroprene rubber. No natural rubber, reclaimed rubber, or synthetic rubber other than polychloroprene shall be used. Plasticized. Pigmented.	-	19.0	(1)					70 (initial) 65 (after weatherometer)							(5120) 100	5	No. 3
Type II- Cloth, Cotton, Duck, Polychloroprene Coated.	Cotton duck conforming to Type I, No. 10, hard texture of CCC-C-419.		49.0	59.0	(1)	245	160	4000 (grams)	2500	250 (initial) 250 (after weatherometer)								5	No. 3
Type III- Cloth, Cotton, Duck, Nitrile Coated.	Cotton duck conforming to Type I, No. 10, hard texture of CCC-C-419.	Nitrile rubber. No natural, reclaimed, or synthetic rubber other than nitrile shall be used. Plasticized. Pigmented.	-	43.0	(1)	245	160	4200	3000	250 (initial) 200 (after weatherometer)								5	No. 3
Type IV- Cloth, Cotton, Airplane, Polychloroprene Coated.	Cotton airplane cloth conforming to MIL-C-5646, except requirements for length of roll, cut, and dope shall not apply.	Polychloroprene rubber. See above.	24.5	29.5	(1)	90	90	900	800	150 (initial) 150 (after weatherometer)								5	No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-82255 Type I Type II Type III Type IV	Coating shall be applied equally and uniformly to both sides. Coated cloth shall be cured. After vulcanizing, cloth shall be dusted with whiting, talc, or other finely divided mineral material which does not support mildew growth.	Color - Coated cloth shall match Black number 27038 of Fed. Std. 595 or the approved color standard (3).	(4) Thickness- Type I- 0.021 in max. Type II: 0.047-0.053 in. Type III: 0.038-0.062 in. Type IV: 0.023-0.027 in. The selvage edges may be trimmed, provided cloth meets specified width.	Intended Use - As a protective covering and repairing fuel cells.

REFERENCES

COATED CLOTHS

Textile Test Methods - CCC-T-191b

Method	Title
	Chemical
2811	Acidity (pH), Potentiometric method.
	Construction
5030	[illegible] of cloth.
5041	Weight of cloth; small specimen method.
	Mechanical
5100	Strength and elongation, breaking, of woven cloth, grab method.
5102	Strength and elongation, breaking, of woven cloth, cut strip method.
5104	Strength and elongation, breaking, of woven cloth, ravel strip method.
5120	Bursting strength, ball method
5122	Bursting strength, diaphragm.
5132	Tearing strength, pendulum method (Elmendorf).
5134	Tearing strength, tongue method.
5136	Tearing strength, trapezoid method.
5202	Stiffness, directional; cantilever bending method (Tinius Olsen).
5204	Stiffness, directional; self-weighting cantilever method (Clark).
5304	Abrasion resistance; oscillatory cylinder (Wyzenbeek) method.
5306	Abrasion resistance of cloth, rotary platform, double head (Taber) method.
	Air Permeability and Water Resistance
5450	Air permeability, calibrated orifice method (Frazier).
5504	Water resistance, (coated cloth) spray absorption.
5512	Water resistance, (coated cloth) hydrostatic pressure, high range.
5516	Water resistance, hydrostatic pressure, water permeability.
	Shrinkage Resistance
5552	Shrinkage in laundering; cloth other than cotton and linen.
	Colorfastness
5614	Laundering of wool, silk, rayon cloth; Launder-Ometer.
5630	Water, cold.
5651	Crocking of cloth.
5660	Light; accelerated (Fade-Ometer).
	Mildew Resistance
5762	Mildew resistance; soil burial method.
	Deterioration Tests
5804	Weathering; accelerated (National Weather Unit).
5831	Leaching; minimum exposure.
5850	Aging; accelerated oven method.
5852	Aging; accelerated oxygen method.
5870	Flexibility after heat.
5872	Temperature, high; blocking.
5874	Temperature, low; coated cloth.
	Fire-Resistance Thermal Tests
5903	Flame resistance of cloth; modified vertical
5910	Burning rate of cloth; 30° angle.
	Adhesion, Coated Cloths
5950	Adhesion, plied (double texture) cloths.
5970	Adhesion of coatings; solvent method.

GENERAL NOTES

CORDAGE

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) As specified.
(2) Preproduction sample.
(3) Colormatching.
(4) Sulfur dyes.
(5) Nonfibrous, extractable matter, chloroform soluble.
(6) See specification for applicable tolerances.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Ends per Carrier Min.	Picks per Inch Min.
Laces, Footwear, Cotton V-L-51b													
		Width (±1/32")											
Type I- Mercerized													
Class A	54/2	7/32		44				70				2	32
Class B	50/2	7/32		64				70				1	38
Class C	40/2	7/32		44				70				2	26
Type II- Soft fin.													
Class A	20/2	8/32		32				120				2	16
Class B	20/2	11/32		44				150				2	16
Type III- Glazed fin.													
Class A	20/2	8/32		32				120				2	16
Class B	20/2	11/32		44				150				2	16
Type IV- Waxed fin.													
Class A	24/2	7/32		40				110				2	22
Class B	26/2	7/32		44				110				2	22
Class C	30/2	7/32		48				110				2	20
Class D	28/2 30/2	10/32		44				110				2	16

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
V-L-51b Type I Class A Class B Type II Class A Class B Type III Class A Class B Type IV Class A Class B Class C Class D	Type I laces shall have a smooth and silky luster. Type II laces shall have a soft finish. Type III laces shall have a glazed, smooth glossy finish. Type IV laces shall be waxed by immersion in a molten wax solution. Wax shall thoroughly saturate and be evenly distributed. After waxing, laces shall increase in weight not less than 17.5 nor more than 33.5%. Finished lace shall contain a min. of 0.04% to a max. of 0.09% metallic copper as copper-8-quinolinolate. See spec. for types of waxes and wax solution amounts. pH: (All types and classes) 4.0 - 8.0 (2811).	Color (1-4). Standard sample available (3). Colorfastness - standard sample available (4620).	(2) The braid for the laces shall be tubular braided without a core using 2 over and under braiding. Braid shall be pressed flat.	Intended Use - In footwear and other items.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Ends Per Carrier Min.	Picks Per Inch Min.
Laces, Footwear, Nylon V-L-61d													
Type I- Spun nylon		Width (±1/32")											
Class 1- 7/32" wide, flat		7/32		44				95				1	38
Class 2- 10/32" wide, flat		10/32		44				175				2	26
Type II- Bulked filament nylon													
Class 1- 3/32" diameter, round			3/32 (±1/32)	16				100				3	28
Class 2- 8/32" wide, flat		8/32		44 (carriers braiding in pairs)				190				2	17

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
V-L-61d Type I Class 1 Class 2 Type II Class 1 Class 2		Color (1). Standard sample available (3). Colorfastness - standard sample available (.630).	Nylon for Type I, Classes 1 and 2 shall be spun from nylon staple and twisted into 3-ply yarn. Nylon for Type II, Classes 1 and 2 shall be a 210 denier filament yarn which has an increased [illegible] size 280-350 denier by air bulking. Braid shall be tubular braided without a core, size a 1 over and 2 under braiding, except for Type II, Class 2 which shall braid 1 pair over and 1 pair under. Type I, Classes 1 and 2, and Type II, Class 2 braid shall be pressed flat. Type II, Class 1 braid shall not be pressed and shall be round.	Intended Use - On various types of footwear.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Ends Per Carrier	Picks Per Inch Min.
Halyards, Signal, Braided, Treated MIL-H-266C, Amd. 1													
Type I- Cotton		(±1/8")											
Class 1- Without core													
3/4"		3/4		8	35'			500				4	2-3/4
1"		1		8	23'			750				6	2-1/2
Class 2- With core													
1-1/4"		1-1/4		12	19'			675			45% max.	23	2-1/4

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-H-266C Type I Class 1 Class 2	(5) Class 1 halyards shall be mildew resistant treated with copper-8-quinolinolate conforming to T-T-616. Class 2 halyards shall be mildew resistant treated with copper-8-quinolinolate conforming to T-T-616. They shall be a water resistant treated with a solution of amorphous wax or paraffin wax, mineral oil, asphalt, pigments (when required), and a volatile solvent. Use of gilsonite, petrolatum or equivalent products is permitted. Halyards shall not produce oily stains (4.2, 5.5). Use of casein, glue, gum, starch, dextrin, water-soluble materials, paint dryers, resin or vegetable oils, oxidizing oils or resins modified with such oils as finishing or loading materials to specifically increase weight or breaking strength is prohibited.	Color - Shall be that naturally resulting from the treatment.	Class 1 halyards shall be braided without core from a min. of 9-ply cotton yarn. Class 2 halyards shall be firmly braided around a cotton core from a min. of 3-ply cotton yarn. Number of strands in core: 23. Class 2 halyards may be braided with 18 carriers with 15 ends per carrier.	

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	Ends Per Carrier	Picks Per Inch Min.
Laces, Leggings MIL-L-3960 (SA)					Weight/144 yds.	Min / Max.	W / F				
			3/32 ± 1/64	9 or 16	21-24 oz.		70			8 or 3	8 or 16
Lines: Shot (For) Line-Throwing-Guns T-L-411a		(± 1/64)			Length/ lb. min.					Strand	Elongation Load Lb.
Type I- Flax-Cable laid											
Class 1- Natural			1/8		175'		350	15		3	260
			7/32		75'		700	15		3	520
			9/32		45'		1150	15		3	850
Type II- Nylon-Braided with core											
Class 1- Natural			1/16		570'		230	32		-	180
			13/64		100'		1200	30		-	900
Class 2- Waxed			3/32		400'		415	15		8	370

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-L-3960	(5) Laces shall be smoothly finished and polished.	Color - White 3041 or Khaki 3727 (1). Standard samples available (3). Khaki laces shall be yarn dyed with vat dyes. ( ) Yarns of white laces shall be fully bleached. Bluing agents may be used. Colorfastness- Khaki laces: standard sample available (4630-4650-4670).	(2) Yarns shall be 2-ply cotton. Laces shall be firmly & uniformly braided without a core. When braiding with 9 carriers, weave shall be over 2 and under 1 (sash cord weave), and when braiding with 16 carriers, weave shall be over 2 and under 2.	Intended Use - As a closure for leggings worn by personnel of the Navy and Coast Guard.
T-L-411a Type I Class 1 Type II Class 1 Class 2	(5) Class 1 line shall have a soft natural finish. Class 2 line shall have a waxed finish.	Color - Unless otherwise specified, color shall be natural. When specific color is required, color shall be as specified. Standard sample available (3). Colorfastness - standard sample available for dyed line (4671).	Type I line shall be fabricated from flax fiber. Type II line shall be fabricated from nylon fiber having a min. melting point of 244°C. Loss in breaking strength after heat aging shall not exceed 10% of initial (4102).	Intended Use - In the operation of line throwing guns.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness		Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	Yarns Per Carrier Min.	Wgt. of Core in % of Total Wgt. Cord	
Cords, Cotton; General and Special Purpose, Sash and Venetian Blind T-C-571d						Min	Max.	W | F				Min.	Max.
						No. of Core Yarns							
Type I- General purpose and sash cord (dyed and undyed) Class 1- Natural fin. Class 2- Polished fin. Class 3- Water & mildew resistant fin.			(±1/64)		Class 1 / Classes 2 & 3				Class 1 / Classes 2 & 3				
Sizes:	4		1/8	9	201' 171'			100	10 8		3	5	19
	5		5/32	9	100' 85'			160			4	5	19
	6		3/16	12	66' 55'			240			4	5	19
	7		7/32	12	54' 45'			300			5	5	19
	8		1/4	12	44' 37'			370			6	5	19
	10		5/16	18	27' 23'			560			10	[illegible]	13
	12		3/8	18	20' 17'			720			12	[illegible]	1[illegible]
	16		1/2	18	11.7' 10'			1250			14	3	1[illegible]
Type III- Venetian blind cord (dyed and undyed)			9/64	8		2		175		45% max.	6		
Type IV- Special purpose cord (natural or bleached) Class 4- Polished and water resistant			5/32	12	8[illegible].3'	5,3 ply		180	7	8% max.	5,3 ply		
Type V- Mail bag lacing cord Class 5- Special polished finish			0.167-0.180	12	90.0'	5		240	13.5				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-C-571d Type I Class 1 Class 2 Class 3 Type III Type IV Class 4 Type V Class 5	(5) Class 1- Natural finish, in which no consistency or luster other than that inherent within the cotton cloth is required. Class 2- Polished finish cord shall have a lustrous, smooth-dressed surface with no protruding fibers. All finishing and glazing materials shall be added after braiding. Class 3- Mildew resistant treated with copper-8-quinolinolate in conformance with T-T-61[illegible]. It shall be water resistant treated with a solution of amorphous wax or paraffin wax, mineral oil, asphalt, pigments (when required) and a volatile solvent. Use of gilsonite, petrolatum or equivalents will be permitted. Class 4- water resistant treated, which will also produce a smooth, lustrous surface with no protruding fibers. Class 5- given a Class 2 polished finish. Core yarns shall be impregnated with a 20% aqueous polyvinyl acetate.	Color - Types I & V, Classes 1, 2, & 5: Unless otherwise specified cord shall be natural, unbleached. When specific color is required, it shall be obtained by yarn dyeing & shall match standard sample. Class 3: Unless otherwise specified, color of Class 3 cord shall be that imparted by treatment. When a shade is specified, it shall be obtained by yarn dyeing and shall match standard sample. Type III: Unless otherwise specified, color for Type III shall be off-white app. matching color No. 13690 of Fed. Std. 595. Type IV- Color shall be natural (bleached yarn is acceptable). Colorfastness- To be specified in applicable end item specifications or in contract or order. (3)	Cord shall consist of cotton yarns firmly and evenly braided around a cotton core. Types I and V shall be a solid braid weave. Yarn strand in jacket for Type V: 5. After water absorption, the thickness increase of Type I, Class 3 shall not be more than 10%. Elongation after water immersion of Type IV shall be not more than [illegible]%. Use of casein, glue, gum, starch, dextrin, water-soluble materials, paint dryers, resin or vegetable oils, oxidizing oils or resins modified with such oils is prohibited with the exception of materials necessary for polishing Class 2 cord.	Intended Use - Type I, Sizes 6, 7, 8 and 10 are intended for use with pulleys (See spec. for sizes of pulleys and max. loads). Type I, Class 1, Size 6 is intended for clothes-lines. Type I, Class 3 cord is recommended for outdoor use. Type I cord may also be used for tent ropes, awning line, truck rope, lashing, elevator gate cord, and for overhead doors. Type IV, Class 4 (special purpose cord) is used for medical applications for applying traction in fracture frames.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness		Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	
						Min	Max.	W F			
Rope; Cotton T-R-00571b											
Class 1- Natural											
Class 2- Mildew Resistant Treated											
Sizes:		(nominal) 3/8			200'			120			
		5/8			90'			250			
		3/4			52'			420			
		1-1/8			23½'			890			
		1-1/2			13½'			1450			
		2-1/4			6'			3100			
		3			3½'			5100			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-R-00571b Class 1 Class 2	(5) Class 1 rope shall be natural. Class 2 rope shall be mildew resistant treated with copper-8-quinolinolate conforming to the requirements of T-T-616, except that the permissible copper content shall be 0.13-0.40% copper as copper-8-quinolinolate.	Color - Unless otherwise specified color of the rope prior to treatment shall be natural. After treatment, the shade imparted by the treatment will be acceptable.		

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness		Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	
						Min	Max.	W | F			
Cords, Yarns and Monofilaments Organic Synthetic Fiber MIL-C-572E, Amd. 2 Type P- Polyamide. Type SAR- Saponified acetate rayon (Forms C and Y only). Type VC- Copolymer of vinylidene chloride and vinyl chloride (Form MF only). Type PVCA- Polyvinyl chloride and its copolymers (Form MF only). Type AR- Cellulose acetate (Forms C and Y only). Type VCR- Viscose rayon (Forms C and Y only). Type CTA- Cellulose triacetate (Forms C and Y only). Form C- Cordage. Form Y- Yarns. Form MF- Monofilaments.											

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-572E Type P Type SAR Type VC Type PVCA Type AR Type VCR Type CTA Form C Form Y Form MF		Color - Unless otherwise specified, color shall be natural.	Material shall consist of a suitable synthetic properly formulated with plasticizers pigment, lubricants, or other materials as may be necessary to conform to the specification. See spec. for table of property values of synthetic-fiber electrical insulation.	Intended Use- Type P: For applications requiring high tenacity, moisture resistance, and recovery. It is employed in lieu of silk in fiber sizes of magnet wire and cable applications. Should not be used outdoors. Type SAR: for applications requiring a very high dry tenacity and heat resistance. Type VC: For applications requiring a relatively high tenacity and very high moisture resistance. Type PVCA: For cordage applications requiring a high degree of elongation and good elastic recovery. Type AR: For applications not requiring high tenacity, but where use may be made of its dyeing properties, sea-water resistance, and thermoplastic properties. Type VCR: for applications requiring high tenacity and ability to take high degree of twist. Type CTA: Where high electrical resistivity and high moisture resistance are required.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	
Rope, Jute T-R-592a		(nominal)	(Approx.)			Min | Max.	W | F			
Type I- Pure jute rope										
Type II- Mixed jute rope Class 1- Natural Class 2- Mildew resistant treated Sizes:							Type I	Type II		
		5/8	3/16	6	66.6'		270	243		
		3/4	1/4	6	50.0'		360	324		
		1	5/16	9	34.5'		600	540		
		1-1/8	3/8	12	24.4'		810	729		
		1-1/4	7/16	15	19.0'		1050	945		
		1-1/2	1/2	21	13.3'		1590	1431		
		1-3/4	9/16		9.61'		2070	1863		
		2	5/8		7.5'		2640	2376		
		2-1/4	3/4		6.0'		3240	2916		
		2-1/2	13/16		5.13'		3900	3510		
		2-3/4	7/8		4.45'		4620	4158		
		3	1		3.71'		5400	4860		
		3-1/4	1-1/16		3.20'		6300	5620		
		3-1/2	1-1/8		2.78'		7200	6480		
		3-3/4	1-1/4		2.40'		8100	7290		
		4	1-5/16		2.09'		9000	8100		
		4-1/2	1-1/2		1.67'		11100	10000		
		5	1-5/8		1.34'		13500	12150		
		5-1/2	1-3/4		1.12'		15900	14300		
		6	2		0.93'		18600	16700		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-R-592a Type I Type II Class 1 Class 2	(5) Class 1 rope shall be natural. Class 2 rope shall be mildew resistant treated with copper-8-quinolinolate. Treatment shall conform to the requirements of T-T-616, except that the permissible copper content shall be 0.13-0.40% copper as copper-8-quinolinolate.	Color of the untreated rope is natural. Natural shade imparted by mildew resistant treatment will be acceptable.	For Type I, no other fiber than jute (Corchorus capsularis, or Corchorus olitorus) shall be used. Type II fiber shall consist of jute which may be blended with other bast or istle fiber or both. Rope shall be 3-strand unless otherwise specified.	

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	
Rope, Manila and Sisal T-R-605b, Amd. 1						Min | Max.	W | F			
Type M- Manila (Musa textilis) Class 1- "Becker" rope value Class 2- "Non-Becker" rope value										
Type S- Sisal (Agave sisalana) Sizes:		(nominal)	(approx) (nominal)				Manila	Sisal		
		5/8	3/16	[illegible]	66.6'		450	360		
		3/4	1/4	6	50.0'		[illegible]	450		
		1	5/16	9	34.5'		1,000	800		
		1-1/8	3/8	12	24.4'		1,500	1,200		
		1-1/4	7/16	15	19.0'		1,[illegible]	1,600		
		1-1/2	1/2	21	15.[illegible]'		[illegible]	2,250		
		1-3/4	9/16		9.61'		[illegible]	2,[illegible]		
		2	5/8		7.50'		[illegible]	3,[illegible]		
		2-1/4	3/4		6.00'		5,[illegible]	[illegible]		
		2-1/2	13/16		5.13'		7,500	5,[illegible]		
		2-3/4	7/8		4.45'		7,[illegible]	6,100		
		3	1		[illegible].11'		[illegible]	[illegible]		
		3-1/4	1-1/16		3.[illegible]0'		10,5[illegible]	[illegible]		
		3-1/2	1-1/8		[illegible].28'		13,000	9,600		
		3-3/4	1-1/4		[illegible].06'		1,500	10,[illegible]		
		4	1-5/16		[illegible].00'		16,000	12,000		
		4-1/2	1-1/2		1.[illegible]'		1,500	14,000		
		5	1-5/8		1.[illegible]'		22,000	18,000		
		5-1/2	1-3/4		1.[illegible]'		[illegible]	21,[illegible]		
		6	2		.[illegible]'		[illegible]	[illegible]		
		7	2-1/4		.[illegible]'		[illegible]	[illegible]		
		8	2-5/8		.[illegible]'		5,000	[illegible]		
		9	[illegible]		.[illegible]'		[illegible]	[illegible]		
		10	3-1/4		.[illegible]5'		[illegible]	[illegible]		
		11	3-3/8		.27'		[illegible]	[illegible]		
		12	4		.[illegible]'		105,000	84,[illegible]		
Manila Hard-lay rope, 3-strand - Sizes:		3-1/2	1-1/[illegible]		2.[illegible]'		11,000			
		4	1-5/1[illegible]		[illegible].00'		1[illegible]			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-R-605b Type M Class 1 Class 2 Type S	Manila and sisal rope requiring mildew resistant treatment shall be treated in accordance with T-T-1[illegible].		Type M rope shall be made from Musa textilis fiber. Type M, Class 1 rope shall have a "Becker" value of not less than [illegible] for rope 3/[illegible] - [illegible] in circumference, and [illegible] than [illegible] for rope 3-1/4 in. and larger in circumference. Type S rope shall be made from Agave sisalana fiber. Unless [illegible] specified, rope shall be [illegible]-strand. When specified, [illegible]-strand rope shall be [illegible]-strand, and [illegible] rope shall [illegible] heavier than [illegible] of the same size, and shall have at least [illegible] of the strength required for [illegible]-strand rope of the same size.	

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	
Rope, Yarn, and Twine; Hemp T-R-00675a (Army-QMC)												
Type I- Rope, hemp, tarred.												
Class 1- Ratline		(6)										
Sizes:		3/4		6	33.3'			600)				
		1		9	23.8'			900)				
		1-1/8		12	17.3'			1400)	4106			
		1-1/4		15	13.3'			1800)				
		1-3/8		18	11.3'			2100)				
		1-1/2		21	10.0'			2400)				
Class 2- Seizing												
Sizes:		1/2		4	63.2'			365				
		5/8		6	50.0'			560				
		7/8		9	36.4'			700)	4106			
		1		12	28.6'			955)				
Type II- Twine, hemp, polished, stainless												
Sizes:	12				1710.0'			31				
	18				950.0'			49				
	24				855.0'			67				
	36				570.0'			105				
	48				427.0'			145				
	60				290.0'			190				
Type III- Yarn, hemp, unfinished												
Sizes:	1				350.0'			180				
(Continued)	2				430.0'			145				
	3				490.0'			120				
	4				600.0'			95				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-R-00675a Type I Class 1 Class 2 Type II Type III (Continued)	Type I rope shall be tarred with pine tar. Tar shall be uniformly distributed throughout and shall not impart excessive stickiness to the rope. Extractable matter: 10-22%. Type II twine shall be polished and stainless. Type III yarn shall be stainless.		Rope, yarn, and twine shall be made from hemp (Cannabis sativa) flax, or a combination of flax & ramie fiber. Type I rope shall be 3-strand except for Class 2, No. 4 rope, which shall be 2-strand. Type II twine shall be of plied yarn.	

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	
Rope, Yarn, and Twine; Hemp (Continued) T-T-00675a (Army-QMC)												
Type IV- Yarn, plied, hemp tarred												
Class 1- Marline												
Types: Navy					180.0'			175				
Commer.					220.0'			160				
Medium					360.0'			105				
Class 2- Spun yarn												
Types: 2-ply					120.0'			215				
3-ply					85.0'			305				
Class 3- Houseline												
Types: Houseline					160.0'			170				
Navy houseline					120.0'			225				
Class 4- Roundline					90.0'			300				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-T-00675a (Cont'd) Type IV Class 1 Class 2 Class 3 Class 4	Type IV yarn shall be tarred (See Type I).		Type IV: Marline shall be 2-ply. Type IV, Class 3 yarn shall be 3-ply. Type IV, Class 4 yarn shall be 3-ply.	

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	
Twine, Impregnated, Lacing and Tying (For Use in Electrical and Electronic Equipment MIL-T-713C												
Type N, waxed-Vegetable fiber												
Class 1					300'				70	15		
Class 2					450'				48	15		
Class 3					600'				32	15		
Type P, unwaxed-Polyamide (nylon)												
Class 1					650'				70	20		
Class 2					950'				48	20		
Class 3					1400'				32	20		
Type P, waxed-Polyamide (nylon)												
Class 1					550'				70	20		
Class 2					750'				48	20		
Class 3					1100'				32	20		
Type SAR- Saponified acetate												
Class 1					650'				70	5		
Class 2					910'				48	5		
Class 3					1280'				32	5		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-T-713C Type N Class 1 Class 2 Class 3 Type P (unwaxed) Class 1 Class 2 Class 3 Type P (waxed) Class 1 Class 2 Class 3 Type SAR Class 1 Class 2 Class 3	Type N shall be uniformly mildew resistant and microcrystalline wax treated. Mildew resistant treatment shall conform to Type I, Class 2 inhibitor of MIL T-3530 and may be applied with wax treatment. Treatment utilized shall not contain copper or mercury. Wax content: 10-25%. Type P waxed twine shall be uniformly treated with a microcrystalline fungicidal wax. Treatment shall not contain copper or mercury. Wax content: 20-30%. No mildew growth on surface (4. .5.3).	Color - Unless otherwise specified, color shall be the natural unbleached color of the fiber & as naturally resulting from the treatment.	Type N shall be made from cotton, flax, soft hemp, flax and soft hemp, or flax and ramie fiber. It shall be constructed of singles yarn. Type N twine shall not deflect more than 1/8 in. (4.2.5.2). Fiber of Type P, unwaxed and Type P, waxed shall conform to Type I, Form C of MIL-C-572. The yarns shall be continuous filament. Fiber of Type SAR twine shall conform to Type SAR, Form C of MIL-C-572. The yarns shall be continuous filament.	Intended Use- Type N: For use where it is desired that heat have no effect on strength or elongation, and where a relatively stiff twine is required. Type P twine is a strong, lightweight twine suitable for applications at relatively high humidity. Type SAR is a strong, lightweight twine suitable for applications where high temperatures and humidities are not encountered. Has a min. stretch under tension.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness		Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	
Twine, Cotton, Wrapping T-T-871d						Min	Max.	W F			
Type I- Natural											
Type II- Mildew resistant Class 1- Copper-8-quinolinolate Class 2- 2,2, methylenebis-(4-chlorophenol)											
Sizes (Plies):	3				6000'			5.5			
	4				4500'			8			
	5				3600'			10			
	6				3000'			12			
	8				2250'			16			
	12				1500'			24			
	16				1125'			32			
	20				900'			40			
	24				750'			48			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-T-871d Type I Type II Class 1 Class 2	(5) Type I twine shall have a natural finish. Type II, Class 1 twine shall be mildew resistant treated with copper-8-quinolinolate in accordance with Type I, Class 1 of MIL-T-3530. Type II, Class 2 twine shall be mildew resistant treated with 2,2 methylenebis-(4-chlorophenol) in accordance with Type I, Class 2 treatment of MIL-T-3530.	Color- Unless otherwise specified, twine shall be furnished in natural color. Color of treated twine shall be that imparted by treatment to natural colored twine.		Intended Use - For general purpose use.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Plies Per Strand
Twine, Cotton, Seine T-T-881c												
Type I- Natural												
Type II- Mildew Resistant												
Size (Number):	6				3000'			12				2
	9				2055'			18				3
	12				1545'			24				4
	15				1245'			30				5
	18				1020'			35				6
	24				780'			45				8
	30				600'			60				10
	36				510'			70				12
	48				375'			86				16
	72				255'			124				24
	84				210'			140				28
	96				175'			156				32
	108				165'			172				36
	120				150'			188				40
	144				135'			214				48
	168				105'			238				56

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-T-881c Type I Type II	(5) Type I shall have a natural finish. Type II twine shall be mildew resistant treated in accordance with Type I, Class 1 treatment of MIL-T-3530.	Color - Unless otherwise specified, color of twine shall be natural. Color of Type II shall be that imparted by mildew resistant treatment on natural colored twine.		Intended Use - For general purpose use.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Ply
Twine, Linen T-T-891c												
Type I- Natural finish, fine twine												
Plies: 3					2280'			35				3
4					1710'			50				4
5					1368'			65				5
Type II- Natural finish, mildew resistant, fine twine												
Plies: 3					2280'			35				3
4					1710'			50				4
5					1368'			65				5
Type III- Polished finish, fine twine					3000'			29				2
Type IV- Polished finish, mildew resistant, fine twine					3000'			29				2
Type V- Natural finish rope twine				4	120'			325				2
Type VI- Natural finish, mildew resistant, rope twine				3	120'			325				2
Type VII- Natural finish twine					300'			170				5
Type VIII- Natural finish, mildew resistant twine					300'			170				5

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-T-891c Type I Type II Type III Type IV Type V Type VI Type VII Type VIII	Type I shall have a natural finish. Type II shall be mildew resistant treated in accordance with Type I, Class 1 of MIL-T-5530. Type III twine shall be polished and have a lustrous, smooth dressed surface. Type IV twine shall be polished and shall be mildew resistant in accordance with Type I, Class 1 of MIL-T-5530. Type V shall have a natural finish. Type VI twine shall be mildew resistant treated in accordance with T-T-816. Type VII twine shall have a natural finish. Type VIII twine shall be mildew resistant treated in accordance with Type I, Class 1 of MIL-T-5530.	Color- Unless otherwise specified, color shall be natural. When mildew resistant twine is specified, color shall be that imparted by the treatment to natural colored twine.		Intended Use- For sails, baling, mattress stitching, and wrapping.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	
						Min / Max.	W / F			
Twine, Jute T-T-911d, Amd. 2										
Type I- Natural fin. Size No.	1				1710'		20			
	2				1140'		32			
	3				855'		43			
	4				685'		54			
	5				570'		65			
	6				285'		125			
	7				170'		210			
	7A				140'		260			
	8				105'		335			
	9				85'		420			
Type II- Polished fin. Size No.	1				1620'		25			
	2				1030'		40			
	3				800'		55			
	4				590'		75			
	5				440'		100			
	6				350'		125			
	6A				195'		155			
	7				140'		215			
	8				110'		270			
	9				85'		350			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-T-911d Type I Type II	Type I twine shall have a natural finish. Type II polished twine shall have a smooth dressed surface.	Color - Twine shall be natural.	Twine shall be made of jute (Corchorus Olitorius or Corchorus Capsularis of both) or kenaf (Hibiscus Cannabinus). Twine shall be stainless when tested (4.2.5.1). Twine shall be not less than 2-ply.	Intended Use - For wrapping purposes.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Ply
Twine, Cotton, Mattress T-T-931b					1575'			32				6
Lines, Cotton, Braided Lead Lines and Taffrail Log Line MIL-L-1145C		3/4 (±1/8)		12	60'			220				14

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-T-931b	Twine shall have a waxed polished finish and smooth dressed surface.	Color- Unless otherwise specified, color shall be natural or tan.		Intended Use- For tufting mattresses by hand or machine.
MIL-L-1145C	(5) Use of casein glue, starch, dextrin, water-soluble materials, paint dryers, resin or vegetable oils, oxidizing oils or resins modified with such oils to specifically effect breaking strength or length per pound is prohibited.	Color- Unless otherwise specified, color of the line shall be natural.	Lines shall be evenly braid- around a cotton core.	Intended Use- As lead or taffrail log lines.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	Yarns Per Strand Min.
Rope, Tent-Lay MIL-R-1670C		(Nominal)		(b)	(a)			W F (4106)			
Type I- Rope, Manila, Tent-Lay		3/4		3	55.55'			630			2
		1		3	38.46'			1030			3
		1-1/8		3	27.02'			1410			4
		1-1/2		3	14.70'			2720			7
		2		3	8.33'			4360			7
		2-1/4		3	6.66'			5560			7
		3		3	4.11'			9260			7
		3-3/4			2.65'			13900			7
Type II- Rope, Sisal, Tent-Lay		3/4		3	55.55'			500			2
		1		3	38.46'			830			3
		1-1/8		3	27.02'			1130			4
		1-1/2		3	14.70'			2170			7
		2		3	8.33'			3500			7
		2-1/4		3	6.66'			4450			7
Type III- Rope, Jute, Tent-Lay		3/4		3	50.00'			480		25%	2
		1		3	34.48'			750		25%	3
		1-1/8		3	24.39'			1000		25%	4
		1-1/2		3	13.33'			1630		25%	7
		2		3	7.51'			2620		25%	7
		2-1/4		3	5.98'			3320		25%	7
Type IV- Rope, Cotton, Tent-Lay		5/8		3	71.42'			250		35%	2
		3/4		3	43.47'			400		35%	2
		1		3	27.77'			630		35%	3
		1-1/8		3	18.86'			850		35%	4
		1-1/2		3	11.49'			1400		35%	7
		2		3	6.49'			2300		35%	7
		2-1/4		3	5.10'			3000		35%	7

Class 1- Natural
Class 2- Mildew Resistant treated

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-R-1670C Type I Type II Type III Type IV Class 1 Class 2	(5) Class 1 rope shall have a natural finish. Class 2 rope shall be mildew resistant treated with copper-8-quinolinolate to conform with T-T-616. Use of finishing or loading materials to increase weight or strength is prohibited.	Color- Unless otherwise specified, color of the rope shall be natural. Color of treated rope shall be that imparted by the treatment to natural colored rope.	(a)A 5% minus tolerance on min. length per pound is allowed for Class 2 treated rope. (b)When specified, 4-strand rope shall be furnished. It shall be not more than 7% heavier than 3-strand rope of the same type and class, and shall have at least 95% of the strength required for the 3-strand rope. Type I rope shall be made from no other fiber than manila hemp (Abaca or Musa). Type II rope shall be made from no other fiber than sisal (Agave sisalana). Type III rope shall be made from no other fiber than jute (Corchorus capsularis of Corchorus olitorius). Type IV rope shall be made from no other fiber than cotton. Stained or tinged cotton is acceptable.	

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	
						Min / Max.	W / F			
Rope, Nylon, Climbing Type MIL-R-1688C		(±1/8)			(a)		(4106)	(4106)		
		3/4		3	47.0'	20 ± 5%	1300 (initial) 90% (after aging)	35%		
		1-1/8		3	23.0'	20 ± 5%	3150 (initial) 90% (after aging)	35%		
		1-1/4		3	17.0'	20 ± 5%	4500 (initial) 90% (after aging)	35%		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-R-1688C	(5) No extraneous weighting material shall be added.	Color- Unless otherwise specified, rope shall be dyed Olive Drab No. 7 to match standard sample (3). Colorfastness- standard sample available (4671).	(2) Rope shall be made from 6 denier, bright, virgin, continuous filament nylon, with a min. of 6.5 grams/denier strength. Nylon shall be a long chain polymer of hexamethylene diamine and adipic acid or a long chain polymer of epsilon amino caproic acid. Mixtures of nylon fiber types in any one rope shall be prohibited. (a)A minus tolerance or 10% is allowed for dyed rope.	Intended Use- For mountaineering operations.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Ply
Twine, Linen (Waxed and Blocking) MIL-T-2520B												
Type I- Waxed					2235'			32				6
					1110'			60				12
					510'			120				27
Type II- Blocking	20		(±0.0005) 0.1050	4	210'			230				5
	28		0.1250	4	150'			300				7
Cord, Linen, Shock Absorber Serving Use MIL-C-2522C, Amd. 1				8	570'			75				1

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-T-2520B Type I Type II	(5) Type I twine shall be waxed and mildew resistant treated in accordance with Type I, Class 2 inhibitor of MIL-T-3530. Inhibitor may be applied with wax or prior to waxing. Type II twine shall have hard polished surface. pH: 5.5 - 7.5 (2811).	Color- Unless otherwise specified, color shall be natural.	Twine shall be made from flax fiber.	Intended Use - In serving and whipping rope ends and splices, and for aircraft rigging.
MIL-C-2522C	(5) Cord shall be waxed. Wax content determined by following chloroform-soluble method in 2611.	Color- Unless otherwise specified, color shall be natural.	Cord shall be made from flax fiber. It shall be braided around a core. No. of core yarns: 4. Picks/Inch: 9 min.	Intended Use - For serving the ends of shock absorber cord and other aerial equipment.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Ply	Picks Per Inch
Cord, Rayon, Without Core, Braided MIL-C-4232B													
Type I				16	126'			400		(min.) 14%		1	9-10
Type II				16	60'			1000		12%		1	5-5½
Type III				16	39'			1500		-		1	3½-4

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-4232B Type I Type II Type III	No chemical finishes or treatments shall be applied to specifically increase weight or breaking strength.	Color- Unless otherwise specified, cord shall be natural color or methyl orange (tinted) to match standard sample.	Yarn shall be high tenacity viscose rayon, 3.0 - 4.0 grams per denier. Denier of basic yarn shall be 1100 min. In manufacture, not more than 1 carrier end shall be allowed to run off per 50 ft. of cord. When carrier ends run off, they shall be spliced or knotted (3-4 knots tied in a series) a distance of 5-10 in. in length. When knotting procedure is used, the ends of the knots shall be sheared off adjacent to the surface of the yarn.	Intended Use- As suspension lines of cargo parachutes and in other aerial delivery applications.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	Denier		Ply	
Cord, Nylon MIL-C-5040C						Min | Max. No. of Yarns	W | F			Core	Sleeve	C	S
			Ends/Carrier			Core		(min)	Picks/Inch Sleeve				
Type I			1 or 2	32 or 16	1050'	4-7	100	30	26-28	210	70	3	3
Type IA(Coreless)			1	16	1050'	-	100	30	"	-	210	-	3
Type II			1	32 or 36	315'	4-7	375	30	"	210	210	*5 **3	3
Type III			1	32 or 36	225'	7-9	550	30	"	210	210	*5 **3	3
Type IV			1	32, 36, 44	165'	11	750	30	"	210	210	*5 **3	3

*- First
**- Final

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as cure requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-5040C Type I Type IA Type II Type III Type IV	(5) No extraneous weighting material shall be added.	Color- Unless otherwise specified, color of the cord shall be natural. When colored cord is specified, cord shall be yarn dyed to match an approved standard shade of Olive Drab No. 7 (3). Sleeve yarns shall be dyed before braiding. Colorfastness- standard sample available (4660-4614-4620). See spec. for instructions for type identification by color marking. Yarns shall not be subjected to any type of bleaching process.	Core yarns shall be shrunk for 1 in. of 60 min. at 93.3° ±2.8°C., and shall be dried at a temp. not to exceed 93.3°C. before manufacture of the core. No oil shall be added to the yarn. Sleeve yarns shall be shrunk for a min. of 30 min. at a temp. of 71.1° ±2.8°C., after which they shall be dried at a temp. not to exceed 71.1°C. before braiding. No oil shall be added to the yarn. Yarns shall not be stretched. Nylon shall be bright high-tenacity light and heat resistant polyamide of hexamethylene diamine and adipic acid or its derivatives. Melting point shall be 250° ±6°C. Splicing of core yarns is permissible, providing overlap is between 5-10 in. Cord shall not lose more than 25% of original breaking strength after exposure to heat and light (4.4.4-4.4.5). Cord shall not be more than 2 years old from date of manufacture to date of delivery.	Intended Use- As parachute suspension lines.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness		Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	Ply	Picks Per Inch Min.
						Min	Max.	W / F				
Cord, Cotton, Braided, Prewaxed MIL-C-5649P (ASG) Amd. 1					310 yd.			45			3	10

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-5649P	Cord shall be thoroughly impregnated with a wax which shall not have a detrimental effect on doped cloths. Weight of wax: 10-25% of conditioned weight of finished unwaxed cord. Use of detergents or other chemicals or finishing agents which would cause deterioration in storage is prohibited.	Color- Cord shall be natural, unbleached white.	Yarn shall be made from combed peeler cotton or its equivalent. Cord shall be braided and shall have not less than 16-ends of 3-ply cotton.	Intended Use- In lacing the cloth on airplane fuselages.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)		Water Absorption (4502)	No. of Ends in Braid Inner	No. of Ends in Braid Outer
Cord, Elastic, Exerciser and Shock Absorber for Aeronautical Use MIL-C-5651B								W F					
			(Outside)		Weight per 100' (lb. max.)					Drift (max)	Set (max)		
Type I- Straight cord with double braided cover (shock-absorbing)			1/4		2.4			120	140	20%	10%	16	24
			3/8		5.5			300	140	20%	10%	24	40
			1/2		9.0			400	140	20%	10%	32	60
			5/8		14.0			500	140	20%	10%	48	60
			3/4		22.0			1000	120	20%	10%	60	60
Type II- Endless ring (Bungee) with double braided cover (shock-absorbing)			1/4									32	32
			3/8									48	48
			7/16									48	48
			1/2									48	48
			9/16									48	48
			5/8									48	48
			11/16									48	48
			3/4									48	48
			13/16									60	60
Type III- Straight cord with single braided cover (exerciser cord)			3/16		1.3			45	200	10%	5%		32
			5/16		3.1			75	200	10%	5%		32

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-5651B Type I Type II Type III	Strands shall be thoroughly treated with soapstone or talc to prevent them from adhering to each other in the finished cord.	Color- Types I & II: both inner & outer braids shall be natural in color. Type III: color shall be as specified. See spec. for instructions on color marking.	(2-6) Yarns shall be cotton. Ends shall be made from natural rubber compound, cis-1,4 polyisoprene rubber compound, or a mixture thereof. Cord shall be made of multiple strands encased within double or single layers of cotton braid. Strands shall be continuous throughout the length of the cord and shall be a uniform size in a given cord. Types I & II: outer braid shall consist of polished ply yarns. Inner braid consist of polished (soft) ply yarns. For all types: braid shall be tight and prevent dirt from entering between the threads at 100% elongation. Cord shall be no more than 6 months old from manufacture to delivery date. Low temp. set: Type I- 10% max.; Type III- 5% max. Flexing cycles (min): Type I, most sizes- 5×10^4; Type II, 3/4 in.- 1×10^4; Type III- 3.5×10^4. See spec. for properties after aging.	Intended Use- Types I & II: Shock mount installations. Type III: opening elastic on parachute packs, camera or instrument cradle mounts, airship valve control lines, and where a shock-absorbing cord of low initial tension is required.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	Yarn Ply	Yarn Denier
Cord, Nylon, Coreless MIL-C-7515C, Amd. 1	Picks Per Inch	End Per Carrier	Total Ends			Min | Max.	W | F	(min)			
Type I	11.5-13	3	48	16	330'		400	20		3	210
Type Ia	13-13.5	2	32	16	441'		400	20		2	840
Type II	10-11.5	3	48	16	255'		550	20		1	840
Type III	8.5-10	6	96	16	150'		750	20		3	210
Type IV	7-8.5	6	96	16	120'		1000			1	840
Type V	6.5-8	9	144	16	75'		1500			1	840
Type VI	4.5-6	12	192	16	60'		2000			1	840
Type VII	4.5-6	14	224	16	45'		2400			1	840
Type VIII	5.5-7	12	288	24	36'		3000			1	840
Type IX	5.5-7	12	384	32	27'		4000			1	840
Type X	4.5-6	16	512	32	22.5'		5000			1	840
Type XI	14-15.5	7	112	16	480'		300	20		1	210
Type XII	4-5	16	576	36	12'		10000			7	210
Type XIIa	4-5	18	576	32	12'		10000			7	210

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-7515C Type I Type Ia Type II Type III Type IV Type V Type VI Type VII Type VIII Type IX Type X Type XI Type XII Type XIIa	(5)	Color- Unless otherwise specified, cord shall be yarn or piece dyed to match an approved shade of Olive Drab No. 7, except for Type XI, which shall be color coded in 7 continuous alternate 1000 ft. lengths of natural white and black, beginning with natural white. Dyeing of cord in skeins is prohibited (3). Colorfastness- standard sample available (4660-4614).	Nylon yarn used in the cord shall be bright, high-tenacity, heat and light resistant polyamide from hexamethylene diamine & adipic acid or its derivatives. It shall have a melting point of 250°±6°C. In manufacture, no more than 1 carrier end shall be allowed to be run off per 50 ft. of cord. When carrier ends run off, they shall be spliced or knotted (3-5 knots tied in a series) a distance of 5-10 in. in length. When knotting procedure is used, ends of knots shall be sheared off adjacent to the surface of the yarn.	Intended Use- In personnel and cargo type parachutes. Type Ia cord is intended for use in lowcost parachutes. Type XI is for use as tow cables.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) M	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Ply	Denier
Cord, Nylon, Braided, Tubular, Spliceable MIL-C-17183A (NORD)	(A) Pick/Inch	Ends/Carrier								(min.)			
Type I	17	4		16	900 yds.			50		20		1	70
Type II	16	3		16	400 "			100		20		1	210
Type III	14.5	(a)		16	225 "			200		20		3	210
Type IV	13	(b)		16	150 "			300		20		3	210
Type V	12	8		16	110 "			400		20		3	210
Type VI	11	3		16	90 "			500		20		4	210
Type VII	9.5	6		16	50 "			750		20		3	210
Type VIII	8.5	6		16	40 "			1000		20		4	210
Type IX	7.5	7		16	35 "			1250		20		3	210
Type X	7	9		16	30 "			1500		20		4	210
Type XI	6.5	10		16	25 "			1750		20		4	210
Type XII	6	12		16	20 "			2000		20		4	210
Type XIII	5.5	13		16	17 "			2250		20		4	210
Type XIV	5.25	14		16	15 "			2500		20		4	210
Type XV	7	12		24	12 "			3000		20		4	210
Type XVI	6.5	14		24	10 "			3500		20		4	210
Type XVII	6.25	4		24	9 "			4000		20		4	840
Type XVIII	6	(c)		24	8 "			4500		20		4	840
Type XIX	5.5	5		24	7 "			5000		20		4	840
Type XX	5.25	(d)		24	6 "			5500		20		4	840
Type XXI	5	6		24	5 "			6000		20			840

(a) 8 carriers of 1 end, 8 of 2 ends, alternately.
(b) 8 carriers of 2 ends, 3 of 3 ends, alternately.
(c) 12 carriers of 4 ends, 12 of 5 ends, alternately.
(d) 12 carriers of 5 ends, 12 of 6 ends, alternately.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-17183A Type I Type II Type III Type IV Type V Type VI Type VII Type VIII Type IX Type X Type XI Type XII Type XIII Type XIV Type XV Type XVI Type XVII Type XVIII Type XIX Type XX Type XXI		Color- Unless otherwise specified, color shall be natural. When colored cord is specified, the yarn shall be dyed before weaving or the cord shall be dyed under uniform tension throughout (a).	Cord shall be made from high tenacity, bright nylon. Filler shall be a polyamide of hexamethylene diamine and adipic acid. (A) No. of picks per inch shall not vary by more than 10%. Cord shall be braided on a 16-carrier braiding machine for Type I through Type XIV cords, and on a 24-carrier braiding machine for Type XV through XXI. The machine shall be regulated to give a 2 over, 2 under conventional pattern. See para. for information on imperfection.	Intended Use- For telescopic splicing.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness		Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	Denier
Rope, Nylon MIL-R-17343C, Amd. 1		(6) (At Load P)	(Approx.)		(At Load P)	Min	Max.	W/F (4106)			
Size:		5/8	3/16		100'	5	25	1000	55		2500-8000
		3/4	1/4		66'	5	25	1500	55		2500-8000
		1	5/16		36'	5	25	2500	55		2500-8000
		1-1/8	3/8		28.5'	5	25	3000	55		2500-8000
		1-1/4	7/16		20'	5	25	4500	55		2500-8000
		1-1/2	1/2		16.5'	5	25	5500	55		2500-8000
		1-3/4	9/16		12.5'	5	25	7000	55		7500-10000
		2	5/8		9.7'	5	25	8400	55		7500-10000
		2-1/4	3/4		7.2'	5	25	11500	55		7500-10000
		2-1/2	13/16		6.2'	5	25	14000	55		7500-10000
		2-3/4	15/16		5.0'	5	25	16000	55		10000-15000
		3	1		4.1'	20	100	22000	55		10000-15000
		3-1/2	1-1/8		3.0'	20	100	28500	55		15000-16000
		3-3/4	1-1/4		2.6'	20	100	33000	55		15000-16000
		4	1-5/16		2.3'	20	100	37500	55		15000-16000
		4-1/2	1-1/2		1.8'	20	100	46000	55		15000-16000
		5	1-5/8		1.5'	20	100	57000	55		15000-16000
		5-1/2	1-3/4		1.25'	20	100	68000	55		15000-16000
		6	2		1.00'	20	100	81000	55		15000-16000
		6-1/2	2-1/8		.90'	20	100	90000	55		15000-16000
		7	2-1/4		.71'	20	100	110000	55		15000 min.
		8	2-5/8		.55'	20	100	137000	55		"
		9	3		.43'	20	100	170000	55		"
		10	3-1/4		.34'	20	100	200000	55		"
		11	3-5/8		.285'	20	100	240000	55		"
		12	4		.24'	20	100	280000	55		"

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-R-17343C	(5) No extraneous weighting material shall be added.	Color- Unless otherwise specified rope shall be natural in color. When color is specified, rope shall be dyed to match approved standard shade of Olive Drab No. 7 (3). Colorfastness- standard sample available (4671).	Moisture content of the rope shall not exceed 5%. Finished ropes shall be spliceable shall not develop yarn displacement or strand cockles in splicing test. Rope shall be made from bright virgin, continuous-filament nylon fiber of at least 6 denier size, having at least 6.5 grams per denier strength. Nylon shall be a long chain polymer of hexamethylene diamine and adipic acid, or a long chain polymer of epsilon amino caproic acid. Mixtures of nylon fiber types shall not be used in any 1 rope. Ropes shall be made from 3 strands of balanced 3-ply yarns.	Intended Use- For general purpose uses where high strength or stretch is required as in mooring, towing, and hoisting operations.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	
Rope, Polypropylene MIL-R-24049A		(6)				Min / Max.	W / F			
Sizes:		(At Load P)	(Approx.)		(At Load P)					
		5/8	3/16		118.0'		700			
		3/4	1/4		83.5'		1000			
		1	5/16		47.0'		1700			
		1-1/8	3/8		36.1'		2150			
		1-1/4	7/16		30.0'		2500			
		1-1/2	1/2		21.0'		3700			
		1-3/4	9/16		15.8'		4800			
		2	5/8		12.0'		6000			
		2-1/4	3/4		9.1'		7000			
		2-1/2	13/16		7.6'		9000			
		2-3/4	15/16		6.35'		11000			
		3	1		5.20'		13000			
		3-1/2	1-1/8		3.80'		16500			
		3-3/4	1-1/4		3.30'		19500			
		4	1-5/16		2.92'		21500			
		4-1/2	1-1/2		2.28'		26000			
		5	1-5/8		1.90'		32000			
		5-1/2	1-3/4		1.58'		38000			
		6	2		1.26'		44000			
		6-1/2	2-1/8		1.10'		50000			
		7	2-1/4		.90'		60000			
		8	2-5/8		.70'		75000			
		9	3		.545'		94000			
		10	3-1/4		.430'		115000			
								(a)		
Type I- Low elongation rope								35		
Type II- High elongation rope								35		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-R-24049A Type I Type II	(5)	Color- Unless otherwise specified, color shall match an approved standard shade of Olive Drab No. 7 (3). Colorfastness- standard sample available (4671).	(2) (a)Load elongation curve drawn autographically shall not exhibit evidence of changes in load applications greater than 5% of the load weighed at the instant of change. Changes due to splice slippage are not considered. Finished ropes shall be spliceable and shall not develop yarn displacement or strand cockles in testing. Materials used for the rope shall be virgin continuous moro-filament polypropylene, ranging in size from 100-600 denier per filament. Fiber shall have at least 6 grams per denier strength. Softening point of at least 300°F. Specific gravity of no greater than 0.91. Fiber shall contain adequate heat and ultraviolet light stabilizers. Ropes shall be made of 3 strands.	Intended Use- For various Military uses where high strength, lightweight, and flotability are required, as in mooring, towing, and hoisting operations.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Picks Per Inch	Yarns Per Carrier
Rope, Nylon, Double-Braided MIL-R-24050 (SHIPS)													Cover (min)
Sizes:		(6)	(Nominal)		(At Load P)					(a)			
		3/4	1/4	16	60'			1650		40		8.00	2
		1	5/16	16	36'			2750		40		6.20	2
		1-1/8	3/8	16	30'			3300		40		5.65	2
		1-1/4	7/16	16	20'			5000		40		4.60	2
		1-1/2	1/2	16	15'			6650		40		4.00	2
		1-3/4	9/16	16	12'			8300		40		3.60	2
		2	5/8	20	9'			11000		40		3.50	2
		2-1/4	3/4	20	6.6'			15000		40		3.10	2
		2-1/2	13/16	20	5.7'			17500		40		2.85	2
		2-3/4	15/16	20	4.8'			20800		40		2.60	2
		3	1	20	4.0'			25000		40		2.35	2
		3-1/2	1-1/8	24	2.8'			35000		40		2.40	2
		3-3/4	1-1/4	24	2.5'			40000		40		2.25	2
		4	1-5/16	24	2.2'			45000		40		2.10	2
		4-1/2	1-1/2	24	1.6'			60000		40		1.85	2
		5	1-5/8	24	1.43'			70000		40		1.70	2
		5-1/2	1-3/4	24	1.11'			90000		40		1.50	2
		6	2	24	1.00'			100000		40		1.40	2
		6-1/2	2-1/8	24	0.83'			120000		40		1.30	2

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-R-24050	(5) No extraneous weighting material shall be added to the rope.		(a) Load elongation curve, drawn autographically, shall not exhibit evidence of changes in load applications greater than 5% of the load weighed at the instant of change. Inner and outer braids shall be made from bright, white, virgin continuous-filament nylon fiber of at least [illegible] denier size, having at least 6.5 grams per denier strength. Nylon shall be a long chain polymer of hexamethylene diamine and adipic acid or a long chain polymer of epsilon amino caproic acid. Mixtures of nylon types shall not be employed in finished rope or component braid. Ropes shall be double braided. A cover shall be braided over an inner core, both hollow. Heat setting will not be permitted. Core carriers: 8 min. Core yarns/carrier: 3/4-3 in. in. 2; 3-1/2 - 4-1/2 in. - 3. Loss in strength after heat aging shall not be more than 10% (4.2,5.3.2). Moisture content shall not exceed 5% (2600).	Intended Use- For general purpose uses where high strength and low elongation are required.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W | F	Elongation % Max. (4102)	Water Absorption (4502)	
Rope, Polyester MIL-R-30500A		(6) (At Load P)			(At Load P)			(4106)	(a)		
Sizes:		5/8		3	84.0'	5	25	800	35%		
		3/4		3	57.0'	5	25	1200	35%		
		1		3	30.0'	5	25	2500	35%		
		1-1/2		3	13.0'	5	25	5000	35%		
		2		3	8.0'	5	25	8000	35%		
		2-1/2		3	5.3'	5	25	13000	35%		
		3		3	3.5'	20	100	18500	35%		
		3-1/2		3	2.5'	20	100	25000	35%		
		4		3	2.0'	20	100	31000	35%		
		5		3	1.3'	20	100	48000	35%		
		6		3	0.90'	20	100	68000	35%		
		7		3	0.66'	20	100	88000	35%		
		8		3	0.50'	20	100	110000	35%		
		9		3	0.40'	20	100	140000	35%		
		10		3	0.33'	20	100	165000	35%		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-R-30500A	(5) No extraneous weighting material shall be added.	Color- Unless otherwise specified, color of the finished rope shall be natural. When colored rope is specified, rope shall be dyed to match an approved standard shade of Olive Drab No. 7 (3). Colorfastness- standard sample available (4671).	(2) (a)Load elongation curve, drawn autographically, shall not exhibit evidence of changes in load applications greater than 5% of load weighed at the instant of change. Changes due to splice slippage shall not be considered. Material shall be bright, virgin, continuous multi-filament fiber of ethylene terephthalate polymer. Rope shall be of 3 strands. Moisture content: 2% max. Rope shall be spliceable and shall not develop yarn displacement or strand cockles in testing (4.2.5.7).	Intended Use- For general purpose uses.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness		Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	
						Min	Max.	W | F			
Cord, Acrylic, Lacing (For Assembly of Propelling Charges) MIL-C-40088 (ORD)											
Type 1								20			
Type 2								30			
Type 3								90			
Type 4								100			
Rope, Nylon (Spun Yarn) MIL-R-43161		3/4±1/8			47'			(4106) 850 (initial) 90% (after heat aging)	(4106) 35%		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-40088 Type 1 Type 2 Type 3 Type 4	Acidity or alkalinity: no more than 0.1% as acetic acid and not more than 0.1% as sodium carbonate (4.6.1.1.2). Ash content: not more than 1.0% (4.6.1.2). There shall be no halogens in the cord (4.6.1.3). pH: 5.0 - 9.0 (4.6.1.1.1).	Color- Unless otherwise specified, color shall be natural. If color is specified, it shall be obtained by "dope" dyeing (the color being added to the acrylic polymer mix prior to spinning the filaments) or by conventional dyeing as specified by contracting officer.	(2) Cord shall be made from 99% min. acrylic fiber. Breaks in ends or plies shall be joined by knots. Ave. no. of full knots (a knot in the entire cord) shall be not more than 1 for every 2 oz. of cord.	Intended Use- In the assembly of propelling charges. It is not for use with propellants containing nitroguanidine.
MIL-R-43161	(5) No extraneous weighting material shall be added.	Color- Shall be Olive Drab No. 7. Standard sample available (3). Colorfastness- standard sample available (4671).	Rope shall be made from bright, virgin, spun staple nylon. It shall be of 3-strand construction, have a firm lay with a high degree of resistance to back turning (nubbing or kinking in the strand) upon removal of afterturn form rope. Rope shall be not more than 2 years old from date of manufacture to date of delivery. Moisture content shall not exceed 5%.	Intended Use- For lacing ponton floats.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	
Cord, Polyester, Solid Braid MIL-C-43256, Amd. 2 (GL)												
Sizes:			(±1/64) 3/32	8	360'			205		20%		
			1/8	9	220'			310		20%		
			5/32	12	140'			400		20%		
			3/16	12	99'			540		20%		
			7/32	12	71'			725		20%		
			1/4	12	53'			945		20%		
			5/16	12	34'			1575		20%		
			3/8	12	25'			1925		20%		
			1/2	12	14'			2950		20%		
Cord, Linen, (Plumb-Bob Use) MIL-C-43258			0.050	8	1350'			48				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-43256	(5) No extraneous weighting material shall be added.	Color- Unless otherwise specified, color of cord shall be natural. When colored cord is specified cord shall be dyed to match standard sample (3). Colorfastness- standard sample available (4671).	(2) The yarn used in the fabrication of the cord shall be a high tenacity multi-filament, plied or singles polyester yarn. When dyed cord is specified, the shade shall be obtained by yarn dyeing or piece dyeing and subsequently processed to stabilize the yarn or cord. The character of the cord shall be equal to standard samples for roundness and firmness.	Intended Use- In tentage, equipage, and other items.
MIL-C-43258	(5) Cord shall have a smooth dressed surface with a hard polished finish. pH: 5.5 - 7.5 (2811).	Color- Color of cord shall be natural.	Cord shall be made from flax fiber.	Intended Use- For plumb-bob use on surveying equipment.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Picks Per Inch Min.	Elastic Strands Min.
Cord, Elastic, Cotton MIL-C-43303, Amd. 1	Yarn Counts ±2 Cover	Cord											
Class 1- General purpose	20/2	20/1	3/16±1/32	16 of 1 end/carrier or 8 of 2 ends/carrier.	0.18 oz/lin yd.					117-143		26	7
Class 2- Special purpose	20/2	20/1	3/16±1/32	"						117-143 (initial) 80% (after acc. aging) 80% (after low temps.)		26	7
Cord, Nylon, Solid Braid, General Purpose MIL-C-43307, Amd. 1													
Sizes:			(±1/64) 3/32	9	380'			250					
			1/8	9	220'			400					
			5/32	12	144'			540					
			3/16	12	99'			720					
			7/32	12	72'			900					
			1/4	12	57'			1100					
			5/16	12 or 18	36'			1900					
			3/8	12 or 18	24'			2700					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-43303 Class 1 Class 2		Color- natural or dyed (1). When dyed is specified, cotton yarn shall be dyed before braiding. (3-4). Standard sample available. Colorfastness- standard sample available (5600).	Elastic strands shall be made of compounded natural rubber, synthetic rubber, or a mixture thereof. Rubber gage shall be 36 (max. fineness). Core shall be composed of 7 ends of rubber wrapped first with 4 ends of 20/1 cotton yarn, and top wrapped with 1 end of 20/1 cotton yarn. Braid cover shall be braided over the core with the carriers braiding in pairs in a basket weave formation. Class 2: Initial permanent set- 8.0% max. After acc. aging, change in permanent set shall be no more than 20% (3.5.3.4-3.5.2.5).	Intended Use- As a drawcord in the man's field coat, vesicant gas protective coat, cold weather overalls for mechanics, traffic control ensemble, man's parka, rucksack cover, and fragmentation protective body armor.
MIL-C-43307		Color- Unless otherwise specified, color shall be natural. When specific color is required, it shall be as specified, and shall match standard sample (3). Colorfastness- standard sample available (4671).	Yarn shall be bright, high tenacity multi-filament nylon. Cord shall be of solid braid construction.	Intended Use- In miscellaneous tentage and equipage application.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Width Inch (±10%)	Thickness Inch (±0.003)
Tape: Impregnated, Lacing and Tying MIL-T-43435													
Type I- Polyamide Nylon			Length/Pound Finish										
			A	B	C	E							
Sizes:	1		400	300	350	325			135	40		.225	.014
	2		700	500	600	550			80	40		.125	.012
	3		1000	800	900	850			50	40		.090	.012
	4		2000	1500	1800	1650			25	40		.062	.012
	5		3200	2400	2800	2600			15	40		.050	.012
Type II- Polyester				B	C	E							
Sizes:	1			200	250	225			135	40		.225	.014
	2			400	450	425			80	40		.125	.012
	3			800	900	900			50	40		.090	.012
	4			950	1100	1000			25	40		.062	.012
	5			1400	1550	1450			15	40		.050	.012
Type III- Tetrafluorocarbon			A		C								
Sizes:	2		350		300				30	30		.120	.011
	4		650		550				15	30		.065	.011
	5		1150		1000				10	30		.025	.011
Type IV- Glass					D	E							
Sizes:	1				150	145			200	5		.225	.016
	2				400	375			100	5		.125	.016
	3				600	575			75	5		.090	.016
	4				900	875			50	5		.062	.016
	5				-	-			-	-		.050	.016
Type V- Polyamide Nylon heat-resistant			A		C	F							
Sizes: (Continued)	1		450		400	400			85	40		.225	.014
	2		800		700	700			50	40		.125	.012
	3		1150		1000	1000			35	40		.090	.012
	4		1550		1300	1300			25	40		.062	.008

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-T-43435 Type I Type II Type III Type IV Type V (Continued)	All tape finishes shall contain no copper, mercury, or compounds of copper and mercury. All finishes shall be able to be used freely in contact with insulated cable or wire.	Color- Unless otherwise specified, color shall be natural.	Type I yarn shall be a high tenacity, continuous filament nylon. Type II yarn used shall be a high tenacity continuous filament polyester. Type III yarn shall be a continuous filament tetrafluorocarbon. Type IV yarn shall be an electrical grade, continuous filament, glass, having high insulation resistance high dialectric strength, high resistance to aging, and low moisture pickup. Material shall be free from any free alkali metal oxides, such as soda or potash, and from foreign particles, dirt or other impurities. Type V yarn shall be an electrical grade, continuous filament, non-melting, aromatic polyamide, having high temperature resistance, high dialectric strength, and high resistance to aging. Yarn shall be substantially free from sizing, loading, and other adulterants.	Intended Use- For lacing and tying telephone switchboard cable forms, hookup wires, cable ends, aircraft cable bundles, electrical and electronic equipment, and electrical wire-harness assemblies.

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness		Breaking Strength Lb. Min. (4102)	Elongation % Max. (4102)	Water Absorption (4502)	
						Min	Max.	W | F			
Tape: Impregnated, Lacing and Tying MIL-T-43435 (Cont'd)											

Finish A- Natural.
Finish B- Wax impregnated.
Finish C- Synthetic rubber including elastomer coatings.
Finish D- Tetrafluorocarbon coating.
Finish E- Vinyl chloride or vinyl chloride-acetate copolymer coating.
Finish F- Silicone resin impregnated.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-T-43435 (Cont'd) Finish A Finish B Finish C Finish D Finish E Finish F	Finish A tape shall have a natural finish. Finish B tape shall be uniformly treated with microchrystalline fungicide wax. Wax content: 15-32%. Finish C tape shall be uniformly impregnated with a synthetic rubber finish. Rubber content: 7-17%. Finish D tape yarns shall be uniformly impregnated with tetrafluorocarbon coating before braiding. Tetrafluorocarbon content: 10-20%. Finish E tape shall be uniformly coated with virgin vinyl chloride or vinyl chloride-acetate copolymers plasticized with phosphate or ester plasticizers exclusively. Coating content: 15-30%. Finish F tapes shall be uniformly impregnated with silicone resin. Resin content: 7-17%.		All tapes shall be braided in a flat braid construction. No tape shall show visible fungus growth on the surface of test specimens (4.2.5.3). Finish C, E, and F tapes: Stress applied to a specimen by joining 2 ends of the braided tape with a square knot shall result in breakage rather than in slippage or pulling out of the knot (4.2.5.4). Finish C, D, E, and F tapes: no visible damage or removal of coatings after blocking test (4.2.5.5). Finish C, D, E, and F tapes: no stiffness, brittleness, softness or tackiness after accelerated aging (5852).	

CORDAGE

NOMENCLATURE	Commercial Number or Size	Circumference Inches	Diameter Inches	Number of Strands (Carriers) Min	Length Per Lb. Min.	Hardness Min	Hardness Max.	Breaking Strength Lb. Min. (4102) W	Breaking Strength Lb. Min. (4102) F	Elongation % Max. (4102)	Water Absorption (4502)	Picks Per Inch	Denier	Ply
Cord, Polyamide, High Temperature Resistant MIL-C-81104 (WEPS)				16, 1 end per carrier	350'			100		30		26-28	200	3

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-81104		Color- Unless otherwise specified, color shall be Olive Green. Color shall be obtained by utilization of solution-dyeing.	Yarn shall be a high strength, aromatic polyamide, and shall not melt.	Intended Use- In the construction of anti-G coveralls, Mark 2A, and related clothing.

REFERENCES

CORDAGE

Textile Test Methods - CCC-T-191b

Method	Title
	Chemical
2811	Acidity (pH), potentiometric method.
	Mechanical
4102	Strength and elongation, breaking small cords; single strand.
4106	Strength, breaking, heavy cordage (tape).
	Air Permeability and Water Resistance
4502	Water absorption; thread, cord, braid, immersion method.
	Colorfastness
4614	Colorfastness to laundering; wool, silk and rayon yarn, thread and cordage; Launder-Ometer method.
4630	Colorfastness to water; yarn, thread, cordage.
4650	Crocking resistance; yarn, thread, cordage.
4660	Colorfastness to light; yarn, thread, cordage; accelerated method (Fade-Ometer).
4670	Colorfastness to weather; yarn, thread, cordage; accelerated method (Twin Arc Weather-Ometer).
4671	Colorfastness to weather of yarn, accelerated method (National Weathering Unit).
5600	Chlorine bleaching; cloth.
	Deterioration Test
5852	Aging; accelerated oxygen method.

GENERAL NOTES

KNITTED CLOTHS

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) As specified.
(2) Preproduction sample.
(3) Colormatching.
(4) Sulfur dyes.
(5) Nonfibrous, etc., restrictions.
(6) Knitting instructions.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

KNITTED CLOTHS

NOMENCLATURE	YARN				Type of Knit	Yarns Per Inch Min. (5070)	Width Inch	Weight Oz/Sq Yd (5041)		Thickness Inch (5030)	Bursting Strength Lb. Min. (5120)	Air Permeability (5450)	Shrinkage and Elongation % Max (5556)
	Fiber	Yarn Number	Ply	Denier									
			W C S	W C S		W C		Min	Max				W C
Net, Laundry (Nylon) JJ-N-180d, Amd. 2 (See also under Synthetic Cloths)													
Type I- With grommets													
Type II- Without "													
Size 1- 10x15 in.	Nylon:			260 260	Warp			9.0	9.6		220		
Size 2- 12x22 in.	Bright,			260 260	"			9.0	9.6		220		
Size 3- 18x30 in.	high-			260 260	"			9.0	9.6		220		
Size 4- 24x36 in.	tenacity			260 260	"			9.0	9.6		220		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Requirements)
JJ-N-180d Type I Type II Size 1 Size 2 Size 3 Size 4	Cloth shall be scoured and heat set.	Color- Cloth shall be white (natural).	Yarn shall be 16-18 filament. Brass grommets shall conform to Type I, Class 1, Size 4 of V-T-295. Meshes/sq in.: 1 -22.	Intended Use- In the form of a bag for washing items of clothing in a laundry.

KNITTED CLOTHS

NOMENCLATURE	YARN: Fiber	YARN: Yarn Number	YARN: Ply	YARN: Denier	Type of Knit	Yarns Per Inch Min. (5070)		Width Inch	Weight Oz/Sq Yd (5041)		Thickness Inch (5030)	Bursting Strength Lb. Min. (5120)	Air Permeability (5450)	Shrinkage and Elongation % Max (5556)	
			W | C | S	W | C | S		W	C		Min	Max				W	C
Stockinet, Surgical JJ-S-746a															
Type I- Rib knit unbleached (Natural color) or bleached														(+15%)	
						Ribs	Loops		(per lin yd)					Ribs	Loops
Sizes: 3 in. wide		12/1			Rib knit	16	24	3	1.25			115		75	300
4 in. wide		or			seamless	16	24	4	1.50			115		75	300
6 in. wide		14/1			or circular	16	24	6	2.50			115		75	300
8 in. wide		or			in contin-	16	24	8	3.00			115		75	300
9 in. wide		16/1			uous tube	16	24	9	3.50			115		75	300
10 in. wide					of cloth.	16	24	10	4.00			115		75	300
12 in. wide						16	24	12	4.50			115		75	300
20 in. wide						16	24	20	8.00			115		75	300
Type II- Plain or flat knit, olive drab									(per sq yd)						
Sizes: 13-14 in. wide		24/1			Plain knit	24	36	13-14	4.4			75			
50-54 in. wide		or			on a cir-	24	36	50-54	4.4			75			
		26/1			cular or										
		or			flat ma-										
		28/1			chine.										

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Requirements)
JJ-S-746a Type I Type II		Color- Type I: unbleached (natural color) or bleached. Type II: Olive Drab. Stock, yarn, or piece dyed. (4). Colorfastness- Type II: "good" (5672-5651).		Intended Use- In the treatment of fractures and wounds.

KNITTED CLOTHS

NOMENCLATURE	YARN				Type of Knit	Yarns Per Inch Min. (5070)		Width Inch	Weight Oz/Sq Yd (5041)		Thickness Inch (5030)	Bursting Strength Lb. Min. (5120)	Air Permeability (5450)	Shrinkage and Elongation % Max (5556)	
	Fiber	Yarn Number	Ply	Denier											
			W C S	W C S		W	C		Min	Max				W	C
Scarf, Neckwear, Wool MIL-S-2063E															
Class 1- Olive Green 208	Fleece and/or pulled wool: 56's worsted.		2 2		Flat jersey, tube, made on a circular machine using 2 ends per feed.	8	10	9+½				60		13	13
Class 2- Gray 1155			2 2												
Class 3- Navy Blue 3345			2 2												
Cloth, Netting, Nylon MIL-C-3395E (See also under Synthetic Cloths)															
Type I- Woven (See Synthetics)															
Type II- Warp knitted	Bright or semi-dull multi-filament nylon.			70 70	Warp knit (6).			(1)	2.0					2	2

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Requirements)
MIL-S-2063E Class 1 Class 2 Class 3	(5) Face of the cloth shall have a lightly brushed finish.	Color (1)- Standard sample available (3). Colorfastness- standard sample available (5651-5614-5660-5680).	Wool shall be treated for resistance to felting shrinkage in stock, top, yarn or cloth by controlled oxidation process approved by procuring activity. Process shall not increase alkali solubility more than 6% (absolute).	Intended Use- As neck scarves for personnel of the Department of Defense.
MIL-C-3395E Type I Type II	Cloth shall be given a permanent resin finish & character of finished cloth shall be equal to standard sample. To insure proper number of meshes/inch and the size of meshes, cloth shall be heat set and framed to size.	Color- Cloth shall be dyed Olive Green No. 106. Standard sample available (3). Use of pigmented resin emulsion finishes to provide color & finish in one operation will be permitted. Colorfastness- standard sample available (5614-5671).	Breaking strength: 50 lb. min. (5100). Mesh size- Initial: 0.035 in. max. After 3 launderings and slippage tests: 0.100 in. max. Meshes per sq in: 500-635.	Intended Use- In tentage and equipage items.

KNITTED CLOTHS

NOMENCLATURE	YARN: Fiber	YARN: Yarn Number	YARN: Ply	YARN: Denier	Type of Knit	Yarns Per Inch Min. (5070)		Width Inch	Weight Oz/Sq Yd (5041)		Thickness Inch (5030)	Bursting Strength Lb. Min. (5120)	Air Permeability (5450)	Shrinkage and Elongation % Max (5556)	
			W | C | S	W | C | S		W	C		Min	Max				W	C
Cloth, Synthetic Mouton, Knitted MIL-C-6590 (USAF) Amd. 1	Cotton ground														
Type I- 100% Acrylonitrile Copolymer, Pile Fiber	Acrylonitrile copolymer			Pile 6 or 7	Ground: knitted on a 10-gage machine	15	12	(1)	26.0	-		85			
Type II- 100% Acrylonitrile Copolymer Vinyl Chloride, Pile Fiber	Acrylonitrile copolymer vinyl chloride			6		15	12	(1)	27.0	-		85			
Type III- 100% Acrylic, Pile Fiber	Acrylic			6 or 7		15	12	(1)	26.0	-		85			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Requirements)
MIL-C-6590 Type I Type II	Use of dyestuffs, detergents, or other chemicals or finishing agents which would cause deterioration in storage or cause dermatitis on prolonged intimate skin contact is prohibited.	Color- Unless otherwise specified, color shall be Sage Green 530. Colorfastness- "good" (5620-5660-5651).	Pile height: $\frac{1}{2}$ +1/16 in. Pile recovery: 85% after 1 minute; 95% after 4 hours (4.5.2). Backing material shall show no signs of blocking (5872). Backing material shall not crack or break when tested for flexibility (4.5.3). Backing compound shall consist of a neoprene latex, a suitable plasticizer and a suitable cellulose flock, to form a flexible backing.	Intended Use- In the manufacture of clothing items.

KNITTED CLOTHS

NOMENCLATURE	YARN: Fiber	YARN: Yarn Number	YARN: Ply (W C S)	YARN: Denier (W C S)	Type of Knit	Yarns Per Inch Min. (5070) W	Yarns Per Inch Min. (5070) C	Width Inch	Weight Oz/Sq Yd (5041) Min	Weight Oz/Sq Yd (5041) Max	Thickness Inch (5030)	Bursting Strength Lb. Min. (5120)	Air Permeability (5450)	Shrinkage and Elongation % Max (5556) W	Shrinkage and Elongation % Max (5556) C
Cloth, Rayon, Knitted MIL-C-8065 (USAF) Amd. 1	Continuous filament viscose rayon				Milanese knit (6).	46-50	44-48	(1)	4.75	5.25		(5122) 80		35	60-80
Cloth, Knitted, Cotton MIL-C-12836A (MU)	Cotton				Jersey knit, tubular	19	22	32 ± 1	10.5	-		90	85-100		
Cloth, Knitted, Nylon, Fleece MIL-C-17155C (SA)	Semi-dull; dull or bright filament nylon, regular tenacity.			Face 200 or 210; Back 70		28	28	(1)	9.5±0.5		(0.1 psi) 0.175 (1.1 psi) 0.125	100		(Shrinkage) 8 (Elongation) 130% (course)	5

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Requirements)
MIL-C-8065	(5) Use of dyestuffs, detergents, or other chemicals or finishing agents which would cause deterioration in storage or dermatitis on skin contact is prohibited. pH: 5.0 - 9.0 (2811).	Color (1-3). Colorfastness- "good" (5682-5620-5622-5614-5651).		Intended Use- In the manufacture of glove inserts.
MIL-C-12836 A	Cloth shall be well napped on one side.	Color - Shall be Olive Drab Shade No. 7 (4). Colorfastness- "good" (5630).	(2)	Intended Use- As a filter material in dust respirators.
MIL-C-17155C	Cloth shall be slit, dyed and napped. Nap shall be completely disoriented, well tigered and have a uniform density. Finish shall be equal to finish of the standard sample.	Color- Shall be Green 3405. Standard sample available (3). Colorfastness- standard sample available (5610-5622-5651-5680).	Yarns shall consist of 30-40 continuous filaments.	Intended Use- As a lining material for cold weather clothing.

KNITTED CLOTHS

NOMENCLATURE	YARN: Fiber	YARN: Yarn Number	YARN: Ply (W | C | S)	YARN: Denier (W | C | S)	Type of Knit	Yarns Per inch Min. (5070) W	Yarns Per inch Min. (5070) C	Width inch	Weight Oz/Sq Yd (5041) Min	Weight Oz/Sq Yd (5041) Max	Thickness inch (5030)	Bursting Strength Lb. Min. (5120)	Air Permeability (5450)	Shrinkage and Elongation % Max (5556) W	Shrinkage and Elongation % Max (5556) C
Cloth, Knitted, Cotton (Waffle Type) MIL-C-17157C (SA)	Cotton 20's		1	1	Waffle effect (6)			(1)	11.0 ± 1.0		0.08 (0.1 psi) 0.06 (1.1 psi)	100		12	12
Cloth, Knitted, Wool and Cotton Fleece MIL-C-17238B	Cotton & fleece and/or pulled wool, 50's		Cotton: 1 or 2 Wool: 1		2 ends of cotton knit as 1; 2 ends of wool tucked as 1. Cotton back; napped wool face.	18.5-21.5	17-23	(1)	17.5	20.5	0.24 (0.1 psi) 0.17 (1.1 psi)	65		-	95
Cloth, Dacron, Knit MIL-C-21286 (AER) Amd. 1	Dacron				Circular pile knit	30	30	54 ±1	7.5 ± 0.2		0.15 (0.1 psi) 0.07 (1.0 psi) 0.12 (unloading at 0.1 psi)			(5552) 1.5	1.5

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Requirements)
MIL-C-17157C	(5) Cloth shall be scoured (not bleached), rinsed and finished to produce a clean, soft, lofty cloth in a state suitable for underwear.	Color- Cloth shall be natural (undyed and unbleached).	(2)	Intended Use- In the manufacture of cold weather underwear (drawers and undershirts) worn by military personnel.
MIL-C-17238B	Cloth shall be scoured (not bleached) and evenly napped to form a disoriented pile on the face.	Color- Shall be natural (undyed and unbleached).	(2) Cloth shall have a min. of 65% wool and a max. of 35% cotton.	Intended Use- In insulated cold weather boots worn by military personnel.
MIL-C-21286	Cloth shall be evenly napped on both sides to produce a uniform thickness throughout. Finished cloth shall be soft, flexible, and free from sizing and finishing materials.	Color- Unless otherwise specified, color of cloth shall be natural (undyed).	Breaking strength: 50 lb. min. in warp & courses (5100). Flammability of the cloth shall be "Normal" as defined in Commercial Std. CS191-53.	Intended Use- In the fabrication of winter flight clothing.

KNITTED CLOTHS

NOMENCLATURE	YARN				Type of Knit	Yarns Per Inch Min. (5070)		Width Inch	Weight Oz/Sq Yd (5041)		Thickness Inch (5030)	Bursting Strength Lb. Min. (5120)	Air Permeability (5450)	Shrinkage and Elongation % Max (5556)	
	Fiber	Yarn Number	Ply	Denier											
			W C S	W C S		W	C		Min	Max				W	C
Cloth, Knitted, Cotton (Circular, Waffle Type) MIL-C-22781 (SA)	Cotton		1 1		Waffle (6)			(1)	11.5 ± 1		0.10 (0.1 psi) 0.07 (1.1 psi)	65		12	12
Cloth, Knitted, Cotton, Simplex MIL-C-40004A															
Type I														(5550)	
Class 1- White 3028	Cotton				48-line Atlas pattern with non-raveling edges.	60	42	36 min.	9.5	-		130		10	3
Class 2- Gray 1164	"					60	42		9.5	-		130		10	3
Class 3- Gray 1163	"					60	42		9.5	-		130		10	3
Class 4- Seal brown 105	"					60	42		9.5	-		130		10	3
Class 5- Gray beige 270	"					60	42		9.5	-		130		10	3
Class 6- Black 3226	"					60	42		9.5	-		130		10	3
Type II (lighter weight cloth)						66	40		7.5	-		120		10	3

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Requirements)
MIL-C-22781	(5) Cloth shall be scoured (not bleached), rinsed, and finished to produce a clean, soft, lofty material in a relaxed state suitable for manufacture of underwear. Resins, sizing, or loading material shall not be used to increase weight or to control dimensional stability. Cloth shall be evenly napped on both sides and shall match standard sample for finish.	Color- Cloth shall be natural (undyed and unbleached) and shall match standard sample.	(2)	Intended Use- In the manufacture of cold weather underwear (drawers and undershirts) worn by military personnel.
MIL-C-40004A Type I Class 1 Class 2 Class 3 Class 4 Class 5 Class 6 Type II	(5) Cloth shall be sueded on both sides and have a suppleness equal to the standard sample. pH: 5.0 - 8.5 (2811).	Color (1)- Standard sample available (5-4). When White is specified, cloth shall be bleached and tinted with Vat Blue 6, CI 69825/6. Colorfastness- standard sample available (5614-5651-5680).	(2) Type I- Stretch: 15% max. in the length; 40-60% in the width(4.4.2.1). Type II- Stretch: 20% max. in length; 60-80% in width.	Intended Use- In the fabrication of gloves, scarves, and lining of protective headgear, and earphones and other personal equipment.

KNITTED CLOTHS

NOMENCLATURE	YARN				Type of Knit	Yarns Per Inch Min. (5070)		Width Inch	Weight Oz/Sq Yd (5041)		Thickness Inch (5030)	Bursting Strength Lb. Min. (5120)	Air Permeability (5450)	Shrinkage and Elongation % Max (5556)	
	Fiber	Yarn Number	Ply	Denier											
			W C S	W C S		W	C		Min	Max				W	C
Cloth, Nylon, Knitted, Raschel MIL-C-41831	Bright high tenacity filament nylon				Raschel (6)	20	28	35 min.	10.5	-		200		1	1
Cloth, Knitted, Nylon, Tubular, Stretch Type MIL-C-43247 (GL)	Stretch nylon yarn			100 100	Interlock	28	40	(1)	10.5 ± 0.5			200		30-50	45-65
Cloth, Pile, Acrylic Fiber Pile MIL-C-43251	Pile: Acrylic fiber. Backing: blend of cellulose & triacetate. Triacetate content: 45% min.		Pile: 3		Circular knit (6)			(1)	11.5	13.5					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Requirements)
MIL-C-41831	Cloth shall be heat set and resin treated using a thermosetting resin to provide stiffness. Stiffness- Initial: min. of 0.300 load-lb. parallel to the wales and 0.200 across the wales. After 3 launderings: min. of 0.175 parallel to the wales and 0.150 across the wales.	Color- Shall be Olive Green 106. Standard sample available (3). Colorfastness- standard sample available (5614-5651-5680).		Intended Use- As the front stiffener in field, hot weather baseball caps.
MIL-C-43247	Cloth shall be scoured, dyed, and heat set.	Color- Cloth shall be Olive Green 106. Standard sample available (3). Colorfastness- standard sample available (5610-5651-5680).	Recovery after elongation: to within $\frac{1}{4}$ in. of original measurements.	Intended Use- In the manufacture of insulated caps for helmet liners.
MIL-C-43251	Cloth shall be opened & sheared. Pile height shall be 13/32±1/32. Pile characteristics shall be equal to those of standard sample. An acrylic type resin applied to the back of the cloth as an anticurl or bonding agent will be permitted. pH: 5.5 - 8.0 (2811).	Color- Shall be Green 252. Standard sample available (3). Dullness (lack of lustre) shall approximate that of standard sample. Colorfastness- standard sample available (5614).	(2)	Intended Use- As the lining component in canteen covers.

KNITTED CLOTHS

NOMENCLATURE	YARN: Fiber	YARN: Yarn Number	YARN: Ply	YARN: Denier	Type of Knit	Yarns Per Inch Min. (5070)	Width Inch	Weight Oz/Sq Yd (5041)	Thickness Inch (5030)	Bursting Strength Lb. Min. (5120)	Air Permeability (5450)	Shrinkage and Elongation % Max (5556)
			W | C | S	W | C | S		W | C		Min | Max				W | C
Cloth, Netting, Nylon; Tulle, Tricot MIL-C-43352, Amt. 1 (GL)												
Class 1- Untreated	Monofilament semi-dull normal tenacity nylon.			15 15	Mesh type		(1)	0.5±0.1		19		
Class 2- Resin treated				15 15	Mesh type		(1)	0.5±0.1		19		
Cloth, Knitted, Nylon/Triacetate, Tricot, OG-106 MIL-C-43358	Back bar: multifilament semi-dull normal tenacity nylon Front bar: 20 filament triacetate.			Back bar: 40 Front bar: 75	Warp knitted so that triacetate yarn will be run in to produce a long float.	45 47	(1)	5.0 6.5	min. 0.065	45		3 4

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Requirements)
MIL-C-43352 Class 1 Class 2	Class 1 cloth shall be scoured. Class 2 cloth shall be given a permanent resin finish. Character of finish shall equal that of standard sample. Both classes shall be framed and heat set to assure proper number of meshes/inch and the size of the meshes.	Color- Class 1: Shall be Olive Green 106. Standard sample available (3). Class 2: Shall be Black 221. Standard sample available (3). Colorfastness- standard sample available (5614-5680).	Meshes per inch- Width: 19-21; Length: 27-29.	Intended Use- As a component of the medical kit used by military personnel and as a component of the head net.
MIL-C-43358	Cloth shall be scoured and heat set. The long floats on reverse side of cloth shall be napped and sheared to produce a uniform density of pile throughout. Character of napped surface shall be equal to that of standard sample. (5)	Color- Shall be OG 106. Standard sample available (3). Colorfastness- standard sample available (5614-5651-5680).	(2)	Intended Use- As the basic material for the Shirt, Sleeping, Man's, Nylon/Triacetate, Tricot Knit, OG 106.

REFERENCES

KNITTED CLOTHS

Textile Test Methods - CCC-T-191b

Method	Title
	Chemical
2811	Acidity (pH), Potentiometric method.
	Construction
5030	Thickness of cloth.
5041	Weight of cloth; small specimen method.
5070	Wales and courses in knit cloth.
	Mechanical
5100	Strength and elongation, breaking, grab method.
5120	Bursting strength, ball method.
	Air Permeability and Water Resistance
5450	Air permeability, calibrated orifice method (Frazier).
	Shrinkage Resistance
5550	Shrinkage in laundering; cotton, linen, and mixed cotton and linen cloth.
5556	Shrinkage in laundering; mobile laundry method.
	Colorfastness
5600	Chlorine bleaching; cloth.
5610	Laundering; cotton and/or linen; Launder-Ometer.
5614	Laundering of wool, silk, rayon cloth; Launder-Ometer.
5620	Dry cleaning (petroleum solvent).
5622	Wet cleaning (with dry cleaning).
5630	Water, cold.
5651	Crocking of cloth.
5660	Light; accelerated (Fade-Ometer).
5671	Weather; accelerated method (National Weathering Unit).
5672	Weather; natural weather method.
5680	Perspiration; perspirometer method.
5682	Perspiration; tube method.

GENERAL NOTES

NARROW FABRICS

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) As specified.
(2) Preproduction sample.
(3) Colormatching.
(4) See specification for applicable tolerances.
(5) Nonfibrous and extractable matter restrictions.
(6) Restrictions on sulfur dyes.
(7) Bid sample and laboratory report.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight	Width Inch	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Yarn Counts and Ply ±5.0%
Tape, Textile; Cotton, General Purpose (Unbleached, Bleached, or Dyed DDD-T-86e	Warp / Fill / Stuffer		Min / Max		Total (min) / Face & Back / Binder / Stuffer	(Min)				Warp / Fill
Type I- Stay bindings, herringbone twill weave				(4)			(warp)			
		Cotton		1/4	28	38	25			40/2 or 20/1 / 60/2 or 30/1
		Cotton		3/8	36	38	30			" / "
		Cotton		7/16	44	38	35			" / "
		Cotton		1/2	52	38	42			" / "
		Cotton		5/8	60	38	50			" / "
		Cotton		11/16	68	38	58			" / "
		Cotton		3/4	76	38	65			" / "
		Cotton		13/16	84	38	72			" / "
		Cotton		7/8	92	38	80			" / "
		Cotton		1	100	38	85			" / "
		Cotton		1-1/16	108	38	90			" / "
		Cotton		1-1/8	116	38	95			" / "
		Cotton		1-1/4	132	38	115			" / "
		Cotton		1-1/2	164	38	130			" / "
Type II- Other bindings herringbone twill weave (Continued)		Cotton		3/16	32[1]	58	22			60/2 / 60/2
		Cotton		1/2	74[2]	70	50			" / 30/1 or 60/2
		Cotton		5/8	94[3]	70	60			"

1. 8 ends left- 16 ends right- 8 ends left.
2. 20 ends left- 34 ends right- 20 ends left.
3. 22 ends left- 50 ends right- 22 ends left.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
DDD-T-86e Type I Type II (Cont'd)	(5)	Color- Tape shall be unbleached, bleached, or dyed as specified. Std. samples available (3-6). Colored tape shall be stock, yarn, or piece dyed. Colorfastness (1). Standard samples available. If no requirements are stated elsewhere, the following shall hold (5600-5610-5622-5651-5660-5671-5680).	When specified, Classes 1, 2, and 3 shall be preshrunk, & shall not shrink more than 4% in the warp (4.3.2). Weave - Type I: a 2/2 single or multiple herringbone twill with 1 or more reversals of the twill across the width of the tape. Tape shall have a woven edge on both sides. Weave - Type II: shall be the same as for Type I. Tape shall have a woven edge on both sides.	Intended Use- As bindings in the fabrication of clothing and other textile items.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Yarn Counts and Ply ±5.0%	
	Warp	Fill	Stuffer		Min	Max		Total (min)	Face & Back	Binder	Stuffer	(Min)				Warp	Fill
Tape, Textile; Cotton, General Purpose (Unbleached, Bleached, or Dyed) DDD-T-86e (Cont'd)							(4)						(warp)				
Type III- Bindings, plain weave				Cotton			3/16	13				28	14			24/2	30/1
				Cotton			1/4	17				28	18			"	or
				Cotton			3/8	25				28	24			"	60/2
				Cotton			1/2	34				28	35			"	"
				Cotton			9/16	35				28	36			"	"
				Cotton			1	65				28	65			"	"

Class 1- Unbleached
Class 2- Bleached
Class 3- Dyed

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
DDD-T-86e (Cont'd) Type III Class 1 Class 2 Class 3	See p. 245 for additional information.		Weave - Type III: shall be plain. Tape shall have a woven edge on each side.	

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	
Tape, Non-Woven (Parallel-Yarn Flat String) DDD-T-90b	Warp	Fill	Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer					
Class 1- 0.0045 in thick Sizes:				Any synthetic and/or natural fiber			(±1/32)	-2 (+ any)					(5102)		(±0.0005)	
							3/16	16					16		0.0045	
							1/4	21					21		0.0045	
							5/16	27					27		0.0045	
							3/8	32					32		0.0045	
							1/2	46					46		0.0045	
							5/8	60					60		0.0045	
							3/4	73					73		0.0045	
							1	97					97		0.0045	
Class 2- 0.006 in. thick Sizes:																
							3/16	17					21		0.006	
							1/4	23					28		0.006	
							5/16	30					35		0.006	
							3/8	37					43		0.006	
							1/2	48					55		0.006	
							5/8	58					70		0.006	
							3/4	75					85		0.006	
							1	100					115		0.006	
Class 3- 0.010 in. thick Sizes:																
							3/16	16					65		0.01	
							3/8	21					93		0.01	
							1/2	27					124		0.01	
							5/8	33					155		0.01	
							3/4	40					186		0.01	
							1	53					248		0.01	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
DDD-T-90b Class 1 Class 2 Class 3		Color- Unless a specific color is stated in the invitation for bids, tape shall be white, natural, or any color. Colorfastness- "fair" (5651). When water resistant binding agent is specified, also "fair" for 5630. Dyed tape shall be uniform in color.	Tape shall be a flat strip of closely paralleled yarns bonded by a suitable binding agent. If a water resistant binding agent is required, it shall be so specified in the invitation to bid. Bonding material shall be a suitable adhesive of any suitable backing or coating substance. When specified in the invitation for bids, tape shall be printed on one or both sides in black or colored ink, any lettering, insignia, or serial number.	Intended Use- Primarily for tying packages, identification purposes, and as a removal strip in packaging.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight oz/sq yd		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	
Tape, Textile, Cotton, Bias-Cut DDD-T-140	Warp	Fill	Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer					
Type I- Cambric				Cotton	2.7	-	(1)	64				55				
Type II- Percale				Cotton	3.0	-	(1)	85				72				
Type III- Sateen				Cotton	2.8	-	(1)	88				140				
Type IV- Twill				Cotton	4.0	-	(1)	76				114				

Class 1- Bleached
Class 2- Dyed

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
DDD-T-140 Type I Type II Type III Type IV Class 1 Class 2	Type I cloth shall contain enough sizing to produce a cambric finish.	Color (1-6). Standard samples available (3). Colorfastness- Standard samples available (5610-5600-5622-5651-5660-5680 or 5682).	Weaves - Types I and II: plain; Type III: Sateen; Type IV: 1/2 twill.	Intended Use- Primarily for the the binding of seams in wearing apparel.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight Oz/lin yd		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Elastic Strands Gage	Elastic Strands Weave No.
Webbing, Textile, (Cotton, Elastic) JJ-W-155d, Amd. 1	Warp	Fill	Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer						
Type I- Woven	(+2 counts)						(4)	(elastic)									
Class 1		20/2	24/2	Cotton	0.28	-	1/2	7	18	-	-	50		50%	0.045-0.060	36	2
Class 2		24/2	24/2	Cotton	0.30	-	1/2	8	21	-	6	100		50%	0.042 min.	30	1
Class 3		24/2	24/2	Cotton	0.43	-	3/4	11	30	-	9	100		50%	0.042 min.	30	1
Class 4		24/2	24/2	Cotton	0.50	-	7/8	13	36	-	11	100		50%	0.042 min.	30	1
Class 5		20/2	24/2	Cotton	0.45	-	7/8	12	33	-	-	50		50%	0.045-0.060	36	2
Class 6		20/2	24/2	Cotton	0.50	-	1	13	36	-	-	50		50%	0.045-0.060	36	2
Class 7		24/2	24/2	Cotton	0.57	-	1	15	42	-	13	100		50%	0.042 min.	30	1
Class 8		24/2	20/2	Cotton	0.54	-	1-1/4	14	26	-	-	52		50%	0.050-0.065	50	4
Class 9		20/2	20/2	Cotton	0.62	-	1-1/4	14	28	24	-	60		50%	-	36	3
Class 10		16/2	12/1	Cotton	0.65	-	1-1/2	17	26	11	-	70		50%	0.050 min.	44	3
Class 11		24/2	24/2	Cotton	0.85	-	1-1/2	26	100	-	24	96		40%	0.038 min.	30	1
Class 12		24/2	24/2	Cotton	0.87	-	1-1/2	23	66	-	21	100		50%	0.043 min.	30	1
Class 13		12/2	12/1	Cotton	0.95	-	1-3/4	19	54	-	-	40		50%	0.048 min.	36	2
Class 14	Binder	12/2	12/1	Cotton	1.25	-	2	22	63	-	-	40		50%	0.048 min.	36	2
Class 15		24/2	20/2	Cotton	1.28	-	3	22	42	-	-	52		50%	0.049 min.	50	4
Class 16		24/2	20/2	Cotton	2.60	-	6	42	82	-	-	52		50%	0.049 min.	50	4
Class 17		40/2	30/2	Cotton	3.30	-	5	113	885	216	-	84		40%	0.058 min.	42	5
Class 18		40/2	30/2	Cotton	4.60	-	7	157	1237	304	-	84		40%	0.058 min.	45	5
Class 19	40/2	30/2	24/2	Cotton	6.70	-	10	221	1749	432	-	84		40%	0.058 min.	42	5
Class 20		20/2	20/2	Cotton	0.55	-	1/2	28	53	7	6	60		50%	0.09 min.	30	6
Class 21		20/2	20/2	Cotton	1.40	-	1	28	171	13	12	90		40%	0.09 min.	30	6
Class 22	20/2 ±	12/2	12/2	Cotton	1.50	-	1-1/2	19	153	36	17	60		40%	0.09 min.	30	6
Class 23		20/2	20/2	Cotton	2.07	-	1-1/2	42	253	20	19	90		40%	0.09 min.	30	6
Class 24	20/2 ±	12/2	24/2	Cotton	2.10	-	1-1/2	44	182	40	38	86		40%	0.09 min.	30	6
Class 25		20/2	20/2	Cotton	2.66	-	2	56	342	26	24	90		40%	0.09 min.	30	6
Class 26		30/2	24/2	Cotton	0.43	-	5/8	12	46	-	10	96		50%	0.053 min.	28	1

(Continued)

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
JJ-W-155d Type I Class 1 Class 2 Class 3 Class 4 Class 5 Class 6 Class 7 Class 8 Class 9 Class 10 Class 11 Class 12 Class 13 Class 14 Class 15 Class 16 Class 17 Class 18 Class 19 Class 20 Class 21 Class 22 Class 23 Class 24 Class 25 Class 26 (Continued)	Unless otherwise specified, Classes 1, 20 & 26 shall be water repellent and mildew resistant treated. Class 5 shall be mildew resistant treated. Mildew resistant treatment shall be with 2,2' methylenebis-(4-chlorophenol) so that concentration of the inhibitor deposited on the webbing shall be 1.35 ± 0.25%. Inhibitor shall be applied from a two bath aqueous emulsion. Water repellent treated shall be obtained by the use of a wax or metallic salt wax compound. As a result of the treatment, dynamic absorption shall not be more than 40% (5500).	Color- Classes 1-8, 10-12, 14, 20, 22, 24, and 26 shall be unbleached, bleached, or dyed as specified. Class 9 shall be bleached. Classes 13, 15, and 16 shall be unbleached. Classes 17-19 shall be dyed Tea Rose. Classes 21, 23, and 25 shall be dyed Gray. Standard samples available (3). For dyed webbing, yarns shall be vat dyed before weaving (6). Colorfastness- standard samples available. For dyed webbings of Classes 1, 5, 6, 8-11, and 13-26 (5610-5671). For Classes 2, 3, 4, 7, and 12 (5610-5660).	Elastic strands for all webbing except Class 5 shall be made from compounded natural rubber.* Class 5 shall be made from natural rubber. When a core is covered, it shall be wrapped with multiple ends of cotton yarns. See spec. for special directions for weaves 1-6. See spec. for initial tension requirements to be met by all Classes. After acc. aging, tension of all webbings except Class 5 shall change not more than 20% (4.3.2.1). Tension for Class 5 shall not change more than 10% (4.3.2.2). Permanent set of all webbing shall not exceed 8% initially. Change in set shall not be more than 20% after acc. aging. (4.3.4.2 for all Classes except Class 5; 4.3.4.3 for Class 5). Change in set of Class 5 after low temperatures shall be not more than 35% (4.3.4.4). Elongation of all Classes except Class 5, after low temps. shall be not less than 10% (4.3.5.1). For Class 5, 50% min. (4.3.5.2). *Synthetic rubber may also be allowed.	Intended Use- Class 1, 6 and 9: used by the Chemical Corps. Class 1: also used in fabrication of various types of Army goggles. Class 5: used by Chemical Corps in one type of protective mask, head harness. Class 9: used in boxer shorts. Class 14: used in Navy swim trunks. Class 17, 18, 19, 21, 23 and 25 (untreated): used in medical installations for construction of orthopedic appliances. Class 20: used in the fabrication of helmet, camouflage, bands.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/lin yd	Width Inch	Warp Yarns - Full Width			Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Elastic Strand Gage	Elastic Strand Weave Number
Webbing, Textile, (Cotton, Elastic) JJ-W-155d, Amd. 1 (Cont'd)	Warp / Fill / Stuffer		Min / Max		Total	Face & Back	Binder / Stuffer						
Type II- Braided (±2 counts)					(4)	(carrier)	(elastic)						
Class 1	20/2	Cotton	0.16 -	5/16	17	8		68		50%	0.035-0.050	42	7
Class 2	20/2	Cotton	0.20 -	3/8	25	12		68		50%	0.035-0.050	42	7
Class 3	20/2	Cotton	0.24 -	1/2	33	16		68		50%	0.035-0.050	42	7

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
JJ-W-155d (Cont'd) Type II Class 1 Class 2 Class 3		Color- Classes 1-3 shall be unbleached, bleached, or dyed as specified. Standard samples available (3). For dyed webbing, yarns shall be vat dyed before weaving (6). Colorfastness- Standard samples available. For Classes 1 and 2 (5610-5660). For Class 3 (5610-5671).	Class 5 shall meet all requirements for tension before and after aging, elongation, and all permanent set, after being boiled (4.3.6). Type II- Elastic strands shall be made from natural and/or synthetic rubber. When a core is covered, it shall be wrapped with multiple ends of cotton yarns. Weave No. 7 shall be plain, 2 over and 2 under. See spec. for initial tension requirements to be met by all Classes. Tension shall not change more than 20% after acc. aging (4.3.2.1). Permanent set shall not exceed 8% initially. After acc. aging, set shall not change more than 20% (4.3.4.2). Elongation shall not be less than 10% after low temps. (4.3.5.1).	Intended Use- All Classes are used by the Chemical Corps.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/144 yd	Width inch (± 1/32)	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Ends Per Carrier	No. Of Ends Core
Braid, Textile (Cotton, Tubular) MIL-B-371C, Amd. 2	Warp / Fill / Stuffer		Min / Max		Total / Face & Back / Binder / Stuffer			(4102) Ply: Braid / Core			
Type I- With core		Cotton	14.0 -	4/32 (dia)	16	16	60	2 / 3		1	10
Type II- With core		Cotton	28.0 -	5/32 "	8	10	75	2 / 3		8	8
Type III- Flat		Cotton	16.5 -	6/32	24	22	75	2 / -		2	-
Type IV- Solid		Cotton	21.0 -	4/32 (dia)	3	10	80	3		2	
Type V- Solid		Cotton	26.0 -	6/32 (dia)	8	8	100	4		2	
Type VI- Solid		Cotton	25.0 -	4/32 (dia)	8	8	100	2		6	
Type VII- Flat		Cotton	25.0 -	11/32	44	22	140	2		2	

Class 1- Natural finish.
Class 2- Water-repellent finish.
Class 3- Water and mildew resistant finish (Copper-8-quinolinolate).
Class 4- Water and mildew resistant finish 2,2' Methylenebis-(4-chlorophenol).

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-B-371C Type I Type II Type III Type IV Type V Type VI Type VII Class 1 Class 2 Class 3 Class 4	Class 1: natural finish. Class 2: water repellent treated with metallic salt wax emulsions. After treatment, dynamic absorption shall be not more than 40% (4500). Class 3: water repellent treated in the same manner as Class 2, and mildew resistant treated in accordance with Type I, Class 1 of MIL-T-3530. Class 4: water repellent treated in the same manner as Class 2, and mildew resistant treated in accordance with Type I, Class 2 of MIL-T-3530.	Color (1-6). Standard samples available (3). Colorfastness- Standard samples available. Class 1: (4660-4610-4600). Class 2: (4660-4610). Class 3: (4660-4610). Class 4: (4600-4610).	(2) Types I, II, IV, V and VI shall be braided with a basket type braiding. Types III and VII shall be braided with a plain type braiding. A loss in breaking strength, based on the min. specified for untreated braid shall be permitted for the applicable Class as follows: Class 2: 15%. Classes 3 and 4: 20% (includes loss for water repellent and mildew treatment).	Intended Use- For use with various items of clothing as a tie-cord or lacing cord.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	
	Warp	Fill	Stuffer		Min	Max		Total	Face Or Back	Binder	Stuffer					
Cloth, Thread, and Tape; Asbestos SS-C-466e See also under Natural Fibers Other than Cotton or Wool																
Form I- Cloth																
Form II- Thread, sewing, reinforced with wire																
Form III- Thread, sewing, without wire																
Form IV- Tape Grade U.G.- 80% asbestos Style 1- Plain weave				Asbestor			(1)	16±1				8±1				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
SS-C-466e Form I Form II Form III Form IV			Tape shall contain not less than 80% asbestos. It shall be made of good-quality chrysotile asbestos and organic fiber. Hygroscopic moisture shall not exceed 5% (4.4.1.1). Warp yarn shall be 10-cut and filling shall be 10-cut, 2-ply. Tape shall have woven selvage edges.	Intended Use- Tape shall be used as the jacketing material over insulation where the temperature of the insulated surface is more than 125°F (52°C), except that it is not intended to be used on fittings or flanges, or where it will be in contact with heated metal.

NARROW FABRICS

NOMENCLATURE	Yarn Number		Fiber	Weight		Width Inch	Warp Yarns - Full Width		Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	
Webbing and Tape, Textile, Cotton, General Purpose Natural or in Colors MIL-W-530D, Amd. 2	Warp	Fill	Stuffer	Min	Max		Total	Face & Back	Binder	Stuffer			
Type I- Lightweight tape (±3%) (a)											(warp)		
Sizes:	16/2	16/2	Cotton	0.15	-	3/8	37	7		46	50		
	16/2	16/2	Cotton	0.20	-	1/2	49	10		46	70		
	16/2	16/2	Cotton	0.25	-	5/8	61	13		46	85		
	16/2	16/2	Cotton	0.30	-	3/4	69	15		46	100		
	16/2	16/2	Cotton	0.35	-	7/8	77	17		46	115		
	16/2	16/2	Cotton	0.40	-	1	89	20		46	130		
	16/2	16/2	Cotton	0.45	-	1-1/8	97	22		46	145		
	16/2	16/2	Cotton	0.50	-	1-1/4	109	25		46	165		
	16/2	16/2	Cotton	0.60	-	1-1/2	129	30		46	190		
	16/2	16/2	Cotton	0.80	-	2	169	40		46	250		
	16/2	16/2	Cotton	1.00	-	2-1/2	209	50		46	300		
	16/2	16/2	Cotton	1.20	-	3	249	60		46	360		
Type Ia- Extra lightweight tape	20/2	20/2	Cotton	0.45	-	2	159	-		32	235		
Type II- Medium weight webbing (hard texture)											(full width)		
Sizes:	16/2	16/2	Cotton	0.20	-	3/8	48			40	100		
	8/4	8/4	Cotton	0.32	-	1/2	24			14	160		
	8/4	8/4	Cotton	0.40	-	5/8	30			14	200		
	8/4	8/4	Cotton	0.48	-	3/4	36			14	235		
	8/4	8/4	Cotton	0.65	-	1	48			14	315		
	8/4	8/4	Cotton	0.81	-	1-1/4	60			14	385		
	8/4	8/4	Cotton	0.97	-	1-1/2	72			14	460		
	8/4	8/4	Cotton	1.30	-	2	96			14	585		
	8/4	8/4	Cotton	1.78	-	2-3/4	132			14	760		
	8/4	8/4	Cotton	1.95	-	3	144			14	810		
	(Continued)												

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-530D Type I Type Ia Type II (Continued)	(5) Classes 1a, 1b, 2a, 4, 7 and 8 webbing or tape shall have a water repellent finish, consisting of aluminum salts of saturated carboxylic acid (such as formate, acetate, palmitate, or stearate) mixed with refined mineral and vegetable waxes. Product shall be applied either in the form of an aqueous emulsion or of a water-free solvent solution, to effect the deposit of not more than 6% on the weight of the finished cloth. Dynamic absorption of treated cloth shall be no more than 40% (5500). Classes 1b and 4 webbing or tape shall be mildew resistant treated with an even deposit of 0.13-0.40% copper as metal from copper-8-quinolinolate. See spec. for method of application.	Color- Webbing & tape shall be unbleached, bleached white, dyed Olive Drab 7, Black, or other color as specified. Standard samples available (3). Dyed webbing or tape shall be stock or yarn dyed, except Types I, Ia & IIa, which may be piece dyed. Only those warps of stock or yarn dyed webbing specifically listed as "stuffer warps" may, if properly covered, be undyed. When Classes 4, 7 and 8 are required, shade of dyed webbing or tape prior to application of finish shall, unless otherwise specified, match standard sample. Unless specifically authorized by contracting officer, use of coloring matter as a component of the finish is not permitted.	(2-7). (a)Two or more plied yarns of equal yarn size, weaving as 1 may be substituted for the yarn sizes shown, providing that the single equivalent count of the yarns is equal to the yarn sizes specified, and providing that the min. weight, equivalent texture, and min. breaking strengths are not reduced. Weave for Type Ia shall be plain. See spec. for special instructions and/or diagrams for all other weaves.	Intended Use- In the manufacture of tentage, clothing, and equipage items. Class 7 webbing or tape is specified when intended for end use in contact with natural or synthetic rubber. Type VI webbing is used as understraps in the manufacture of prosthetic appliances and for lamp wicks.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	
Webbing and Tape, Textile, Cotton, General Purpose Natural or in Colors	Warp	Fill	Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer					
MIL-W-530D, Amd. 2 (Cont'd)																
Type II- Medium weight webbing (hard texture)		(±3%) (a)												(Per Inch)		
Sizes: (Cont'd)	8/4	8/4		Cotton	2.43	-	3-3/4	180				14		315		
	8/4	8/4		Cotton	3.25	-	5	240				14		315		
	8/4	8/4		Cotton	3.65	-	5-5/8	270				14		315 (warp)		
Type IIa- Medium weight webbing (soft texture)	12/2	12/2	8/3	Cotton	0.25	-	3/8		41	5	10	36		130		
	12/2	12/2	8/3	Cotton	0.33	-	1/2		47	6	12	36		160		
	12/2	12/2	8/3	Cotton	0.41	-	5/8		53	7	14	36		195		
	12/2	12/2	8/3	Cotton	0.49	-	3/4		65	9	18	36		230		
	12/2	12/2	8/3	Cotton	0.65	-	1		83	12	24	36		300		
	12/2	12/2	8/3	Cotton	0.81	-	1-1/4		101	15	30	36		370		
	12/2	12/2	8/3	Cotton	0.97	-	1-1/2		119	18	36	36		440		
	12/2	12/2	8/3	Cotton	1.30	-	2		155	24	48	36		580		
	12/2	12/2	8/3	Cotton	1.47	-	2-1/4		173	27	54	36		645		
Type IIb- Medium hvy.wgt. webbing	8/4	10/3		Cotton	0.60	-	5/8		49	5		24		310		
	8/4	10/3		Cotton	0.72	-	3/4		57	6		24		365		
	8/4	10/3		Cotton	0.96	-	1		73	8		24		475		
	8/4	10/3		Cotton	1.20	-	1-1/4		89	10		24		590		
	8/4	10/3		Cotton	1.44	-	1-1/2		105	12		24		700		
	8/4	10/3		Cotton	1.92	-	2		137	16		24		925		
	8/4	10/3		Cotton	2.25	-	2-1/4		161	19		24		1050		
	8/4	10/3		Cotton	2.88	-	3		201	24		24		1375		
(Continued)																

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-530D (Cont'd) Type IIa Type IIb (Continued)	Classes 1a, 2a, and 7 webbing or tape shall be mildew resistant treated with 1.1-1.6% of 2,2' methylenebis-(4-chlorophenol). See spec. for method of application. pH: Classes 1a, 1b, 2a, 4, 7 and 8 shall be 5.5 - 8.5.	Dyed webbing or tape shall show good dye penetration and dye shall be completely oxidized. Webbing or tape shall be well soaped and washed after dyeing(6). Colorfastness- Class 3: standard sample available (5651-5671). In addition, Class 3, Type I shall show fastness to (5600-5610). Classes 4 & 7: standard sample available (5651-5671). In addition, Classes 4 & 7, Type I shall show fastness to (5600-5610). Class 8: standard sample available (5651-5671-5600-5610).		

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight	Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)
Webbing and Tape, Textile, Cotton, General Purpose, Natural or in Colors MIL-W-530D, Amd. 2 (Cont'd)	Warp / Fill / Stuffer		Min / Max		Total	Face & Back	Binder	Stuffer				
Type III- Heavy-weight webbing	(±3%) (a) 3/4 8/4 8/4	Cotton	1.00 -	5/8	57	5	12	24		(warp) 380		
	8/4 8/4 4/4	Cotton	1.20 -	3/4	65	6	14	24		460		
	8/4 8/4 8/4	Cotton	1.33 -	1	81	8	18	24		550		
	8/4 8/4 8/4	Cotton	1.50 -	1-1/4	89	10	11	24		650		
	8/4 8/4 4/4	Cotton	2.00 -	1-1/4	97	10	22	24		720		
	8/4 8/4 4/4	Cotton	2.40 -	1-1/2	113	12	26	24		860		
	8/4 8/4 8/4	Cotton	2.65 -	2	145	16	34	24		1100		
	8/4 8/4 4/4	Cotton	4.00 -	2-1/2	177	20	42	24		1360		
	8/4 8/4 4/4	Cotton	4.80 -	3	209	24	50	24		1560		
Type IV- Webbing Special Use	(4) 8/4 8/4	Cotton	0.90 -	5/8	48	7		40		255		
	8/4 8/4	Cotton	1.90 -	1-1/4	94	15		46		500		0.135 max.
	10/5 10/5	Cotton	2.25 -	1-3/8	119	18		40		800		
	8/4 8/4 8/4	Cotton	3.40 -	2-1/4	167	10	99	28		1200		
	8/4 8/7	Cotton	4.30 -	2-1/4	196	32		38		1100		0.135-0.155
Type V- Webbing multiple weave	12/3 12/3	Cotton	2.75 -	(+1/32) 1-3/4	333			100		1000		1/8±1/64
Type VI- Webbing special (appliances and wicks) (Continued)	5/2 10/2	Cotton	0.53 -	(+1/16) 1	49	11		18		350		0.080±0.005

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-530D (Cont'd) Type III Type IV Type V Type VI (Continued)	For additional information see page 254.			

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/gross yd			Width Inch	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	F[illegible] Max. (5100)	Thickness Inch (5030)	Ends Per Carrier	Lines Min.
Braid, Textile (Nylon, Mohair, and Cotton: Mohair and Cotton)(Flat) MIL-B-593C	Warp / Fill / Stuffer		Min		Max		Total / Face & Back / Binder / Stuffer						
Type I- Mohair outer covering Class 1- 3/3 plain stitch (Hercules) Sizes:	Cotton 40/2 Mohair 2/28	Cotton & Mohair: 28's, worsted.	45	-	3/4		16/3	26	110	No. of Carriers 49	2	8
			62	-	1		24/3	26	170	73	2	12
			78	-	1-1/2		32/2	26	190	97	2	16
			100	-	1-3/4		44/2	26	220	133	2	22
			110	-	2		48/2	24	300	145	2	24
			166	-	2-1/2		48/3	19	360	145	5	24
			182	-	3		48/4	19	390	145	5	24
Class 2- 8/8 basket or diamond stitch	"		112	-	1-3/4		32/2	8	230	66	4	16
Class 3- 2/2 plain stitch Sizes:	Cotton 40/2 or 20/2 Mohair 2/28		24	-	1/2		12/2 or 4	21	60	25	2	6
			34	-	3/4		16/2 or 4	21	80	33	2	8
			68	-	1-1/2		32/2 or 4	21	150	65	2	16
			90	-	1-3/4		32/4	18	200	65	2	16
Type II- Nylon & mohair outer covering, 2/2 plain stitch Sizes:	Cotton 40/2 Mohair 2/28	Cotton, Mohair: 23's worsted & Nylon: continuous filament 210 den. 34 filament.	12	-	1/4		6/6	23	40	13	2	3
			25	-	1/2		12/6	22	80	25	2	6
			68	-	1-1/2		32/6	22	210	65	2	16
			85	-	2		40/6	22	265	81	2	20

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-B-593C Type I Class 1 Class 2 Class 3 Type II	Finished braid shall be singed (in either yarn or braid).	Color (1-6). Standard sample available (3). Colorfastness- Standard sample available (5622-5651-5660-5680-5682).	Type I braid shall be made with a cotton warp with a mohair outer covering. Type II braid shall be made with a cotton warp with a nylon-mohair outer covering. Shrinkage- Type I, Class 3: shall not shrink more than 2% length (5558).	Intended Use- To designate rank on military uniforms.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight Oz/Lin Yd	Width Inch	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)
Tape, Insulating (Electrical) Linen-Finish, Plain MIL-T-638A	Warp / Fill / Stuffer (±5%)		Min / Max	(4)	Total / Face & Back / Binder / Stuffer				
	30/1 38/1	Cotton		1/2	36	35	15		0.005
	30/1 30/1	Cotton		3/4	56	35	25		0.005
	20/1 30/1	Cotton		1/4	18	35	15		0.007
	20/1 30/1	Cotton		1/2	36	35	25		0.007
	20/1 30/1	Cotton		3/4	56	35	30		0.007
	20/1 30/1	Cotton		1	72	35	40		0.007
	20/1 30/1	Cotton		1-1/2	108	35	60		0.007

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-638A	(5) Tape shall be unbleached, and no finish shall be applied other than calendering. Tape shall have smooth, even surface commonly known as linen-finish. pH: 5.0 - 8.0 (2811).		Weave shall be plain, with woven selvages on each side.	Intended Use- Tape is Class O insulation, for use in cables and similar items, with continuous operating temp. limit of 90°C., and, in general, is used when combined with a liquid dielectric to form Class A insulation with a continuous operating temp. limit of 105°C.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/gross yd		Width inch	Warp Yarns - Full Width	Picks Per inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness inch (5030)	Number of Carriers
Braid, Textile, Cord-Edge MIL-B-1667D	Warp / Fill / Stuffer		Min	Max	(Flat Braid Section)	Total / Face & Back / Binder / Stuffer					
Class 1- General Officers, Army	Flat braid: 28/2-32/2	Cotton, continuous filament, regenerated rayon of 150+7.5 den. & 24 filament min. or 300+15 den. & 44 filament min. & non-tarnishable metallic silver color cellophane: 0.020 in. wide & 6500 yds/lb.	22.0	-	3/16-1/4	Cover: 4(150 denier) or 3(300 denier) Flat braid: 10(1 carrier) 12(25 carrier)	Cover: 26(150 denier) or 23(300 denier) Flat braid: 26				Cover: 19 Flat Braid: 21-25 (For All Classes)
Class 2- Officers Army			22.0	-	3/16-1/4						
Class 3- Warrant Officers, Army			22.0	-	3/16-1/4						
Class 4- Enlisted Men, Army											
Class 5- General Officers, Air Force			22.0	-	3/16-1/4	Cover: --- Flat braid: Same as Class 1	Cover: --- Flat braid: 26				
Class 6- Officers, Air Force			22.0	-	3/16-1/4	Cover: 4 or 3 Flat braid: Same as Class 1	Cover: 23(150 denier or 21 (300 den.)				
Class 7- Airmen, Air Force			22.0	-	3/16-1/4	Cover: 4 or 3 Flat braid: Same as Class 1.	Cover: 26 or 23 Flat braid: 26				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-B-1667D Class 1 Class 2 Class 3 Class 4 Class 5 Class 6 Class 7		Color (1). Standard samples available (3-6). Colorfastness- Standard sample available (4680-4622-5651-4660).	(2) Flat braid section and cord section shall be braided together in one operation on a cord-edge braider. Cord section shall consist of a cord cover braided around a cotton core. Width of finished cord section shall be 3/32-1/8 in. Core shall be 4 cotton stuffer yarns. Each yarn shall be a 20/3/4 ply cord with permissible + or - count on the singles yarn. Classes 1, 4 and 7: cord cover shall be braided with 1 color of rayon yarn. Class 2: cord cover shall be braided using 14 carriers of black rayon yarn & 5 carriers of black rayon yarn equally spaced. Class 3: cord cover shall be braided using 14 carriers of black rayon yarn & 5 carriers of silver grey rayon equally spaced. Class 5: Cord cover shall be braided using metallized silver color cellophane (1 end/carrier, 21 picks/in.) Class 6: Cord cover shall be braided using 9 carrier cellophane, of remaining 10 carriers with every other carrier out, 5 carriers blue rayon.	Intended Use- On garrison caps worn by personnel of the Departments of the Army and the Air Force.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/gross yd	Width Inch	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	
Tape, Textile, Nylon, Woven, White or Dyed MIL-T-228D	Warp / Fill / Stuffer		Min / Max	(+1/16) (-1/32)	Total / Face & Back / Binder / Stuffer					
		210 (±5%) den., bright high tenacity polyamide of hexamethylene diamine & adipic acid or its derivatives	9.0 -	1/2	65	40	90			
			11.0 -	5/8	79	40	140			
			13.5 -	3/4	95	40	190			
			17.0 -	1	127	40	240			
			22.0 -	1-1/4	157	40	265			
			26.0 -	1-1/2	187	40	290			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-228D		Color- Natural (white) or dyed as specified. Standard samples available (3). Colorfastness- Standard sample available for dyed tape (5622-5614-5660).	Tape shall have a plain weave with woven selvages on both edges.	Intended Use- In the fabrication of clothing and individual equipment.

NARROW FABRICS

NOMENCLATURE	Yarn Number		Fiber	Weight oz/lin yd		Width Inch	Warp Yarns - Full Width			Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	No. of Single Yarns for Final Plied Yarn (min.)		
Webbing, Textile, Woven Nylon	Warp	Fill	Stuffer	Min	Max		Total	Face & Back	Binder	Stuffer						
MIL-W-4088E (GL) Amd. #3	Denier & Filament SKB	F				(4)								W	B	F
Types: I	420/68	840/140	Bright,	-	0.28	9/16	92			34	500		0.025-.040	1	-	1
Ia	420/68	840/140	high ten-	-	0.32	3/4	108			36	600		0.025-.035	1	-	1
II	420/68	840/140	acity, heat	-	0.42	1	134			34	600		0.025-.040	1	-	1
III	420/68	840/140	& light	-	0.52	1-1/4	168			34	800		0.025-.040	1	-	1
IV	420/68	840/140	resistant	-	1.20	3	400			34	1800		0.025-.040	1	-	1
VI	840/140	840/140	polyamide	-	1.15	1-23/32	114			21	2500		0.030-.050	2	-	2
VII	840/140	840/140	of hexame-	-	2.35	1-23/32	229	27		24	5500		0.060-.100	2	1	2
VIII	840/140	840/140	thylene	-	1.60	1-23/32	166			18	3600		0.040-.070	2	-	2
VIIIa	840/140	840/140	diamine &	-	2.80	3	280			18	6300		0.040-.070	2	-	2
IX	840/140	840/140	adipic acid	-	4.00	3	257	31		28	9000		0.065-.100	3	2	2
X	840/140	840/140	or its deri-	-	3.70	1-23/32	257	31		22	8700		0.110-.140	3	1	2
XII	420/68	840/140	vatives.	-	0.85	1-23/32	266			34	1200		0.025-.040	1	-	1
XIII	840/140	840/140	Melting	-	2.90	1-23/32	281	34		24	6500		0.030-.120	2	1	2
XIV	210/34	210/34	point: 482°	-	0.80	1/2	91			36	1200		0.070-.100	7	-	7
XV	210/34	210/34	F. min. (5).	-	1.25	2	88			15	1500		0.035-.050	10	-	10
XVI	840/140	840/140		-	2.00	1-23/32	198			17	4500		0.045-.080	2	-	2
XVII	840/140	840/140		-	1.15	1	114			15	2500		0.045-.070	2	-	2
XVIII	840/140	840/140		-	2.05	1	260			18	6000		0.100-.160	2	-	2
XIX	840/140	840/140		-	4.10	1-3/4	280			18	10000		0.105-.130	3	-	2
XX	840/140	210/34		-	3.25	1	162	26		19	9000		0.190-.235	5	1	10
XXI	210/34	210/34		-	1.70	1-1/4	260			25	3600		0.065-.085	5	-	10
XXII	260/17	840/140		-	3.50	1-23/32	259			18	7300		0.090-.120	10	-	2
XXIII	840/140	840/140		-	3.70	1-1/8	324	27		15	12000		0.200-.300	3	2	3
XXIV	840/140	840/140		-	2.25	1-15/16	244			17	5500		0.055-.075	2	-	3
XXV	840/140	840/140		-	1.50	1	169	20		22	4500		0.090-.125	2	1	2
XXVI	840/140	840/140		-	4.90	1-3/4	235			16	15000		0.170-.200	5	-	3

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-4088E Type I Type Ia Type II Type III Type IV Type VI Type VII Type VIII Type VIIIa Type IX Type X Type XII Type XIII Type XIV Type XV Type XVI Type XVII Type XVIII Type XIX Type XX Type XXI Type XXII Type XXIII Type XXIV Type XXV Type XXVI		Color (1). Standard sample available (3). When dyeing is required, webbing shall be yarn or piece dyed using dispersed, acid, metallized, or chrome dyes. Colorfastness- Standard sample available (5660-5614). See spec. for instructions on colored identification yarns.	Type XXII webbing shall retain not less than 95% of original breaking strength when abraded (4.5.1). Weave- Types I, Ia, II, III, IV, VI, VIII, VIIIa, XII, XV, XVI, and XVII: weave shall be 2 up, 2 down herringbone twill and 1 reversal at center of webbing. Types VII, IX, X, XIII, and XXV: weave shall be a double plain weave with a single filling. Separate binder warp ends shall weave 2 up, 2 down, 1 end as 1. All other warp yarns shall weave 2 ends as 1 except that the edge warp yarns shall weave 1 end as 1 not exceeding 8 ends on one selvage & 9 on the other. Types XX, XXIII, and XXII: See spec. for diagrams. Types XIV, XVIII, XIX, and XXI: a 5 up, 1 down, 1 up, 5 down herringbone twill with 1 reversal in center. See diagram. Type XXIV: 2 up, 2 down herringbone twill with 3 reversals. See diagram. Type XXVI: See spec.	Intended Use- In parachutes and their accessories, tow target reinforcement, safety belts, bomb hoists and slings, tie-down equipment, and overrun barriers.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight Oz/Yd	Width Inch	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Shrinkage (Warp)
Webbing, Textile, Woven, Cotton and Rayon	Warp / Fill / Stuffer		Min / Max		Total / Face & Back / Binder / Stuffer					
MIL-W-4576 (USAF) Amd. 2			(±0.025)	(±1/32)						
Type I		Warp: continuous filament viscose rayon Fill: cotton, 8-ply	0.125	5/8	106	30	50		0.015-0.020	2% max.
Type II			0.175	7/8	148	30	70		0.015-0.020	2% max.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-4576 Type I Type II	(5) Use of dyestuffs, detergents, or other chemicals or finishing agents which would cause deterioration in storage or cause dermatitis on prolonged intimate skin contact is prohibited. pH: 5.0 - 9.0 (2811).	Color (1-6). Colorfastness- "good" (5614-5651-5620-5660-5682).	Weave shall be plain, 1 up, 1 down.	Intended Use- In the construction of flying clothing.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight Oz/yd	Width Inch	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Denier
Tape, Textile and Webbing, Textile, Reinforcing, Nylon	Warp / Fill / Stuffer		Min / Max		Total / Face & Back / Binder / Stuffer					W / F / B
MIL-T-5038D				(±1/32)						
Type II- Tape, herringbone twill weave		Bright, high tenacity, heat & light resistant polyamide of polyhexamethylene & adipic acid or its derivatives. Melting point: 230°C min.	- 0.40	1	96	40	900	18	0.025-	840 210
			- 0.60	1-1/2	144	40	1300	18	0.035	840 210
			- 0.80	2	192	40	1700	18	"	840 210
Type III- Tape, plain weave			- 0.12	3/8	74	33	200	18	0.015-	210 420
			- 0.15	1/2	100	33	250	18	0.025	210 420
			- 0.20	3/4	150	33	400	18	"	210 420
			- 0.30	1	200	33	525	18	"	210 420
			- 0.40	1-1/2	300	33	900	18	"	210 420
Type IV- Webbing, plain weave			- 0.35	1/2	99 8	48	550	18	0.030-	420 420 420
			- 0.40	5/8	123 10	48	625	18	0.040	420 420 420
			- 0.50	1	197 16	48	1000	18	"	420 420 420
			- 0.60	1-1/8	221 18	48	1100	18	"	420 420 420
			- 0.75	1-1/2	293 24	48	1500	18	"	420 420 420
Type V- Tape, herringbone twill weave			- 0.20	9/16	42	32	500	18	0.020-0.030	840 420
Type VI- Tape, herringbone twill weave			- 0.20	3/4	150	38	425	18	0.020-0.030	210 420

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-5038D Type II Type III Type IV Type V Type VI	(5) pH: 5.0 - 8.5 (2811).	Color- Types II, III, IV and V: color shall be natural unless otherwise specified. Type VI: (1). Standard samples available (3). Colored tape and webbing shall be yarn or piece dyed. Colorfastness- Standard sample available (5614).	Tape or webbing shall not lose more than 25% of original breaking strength on exposure to light and heat (4.3.2-4.3.3). See spec. for weave instructions.	Intended Use- For binding & reinforcing applications in parachute packs and similar purposes and for equipage.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight Lin Yd/Lb	Width Inch	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	
Tape and Webbing, Textile, Rayon MIL-T-5237C	Warp / Fill / Stuffer		Min / Max		Total / Face & Back / Binder / Stuffer					
Type I- Flat weave tape		Bright, multifilament viscose rayon Fill: 3 den. min.	200 -	(4) 9/16	48	36	50			
			100 -	1-1/8	94	36	100			
			80 -	1-1/4	116	30	140			
Type Ia- Flat weave webbing			100 -	3/8	30	36	160			
			40 -	9/16	280	21	500			
			32 -	1	90	36	500			
			15 -	1-5/8	136	36	750			
Type II- Tubular weave webbing			125 -	1/8	23	24	150			
			100 -	3/16	30	30	200			
			40 -	1/2	81	30	500			
			40 -	9/16	81	30	500			
			23 -	5/8	130	52	900			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-5237C Type I Type Ia Type II	(5) Tape or webbing shall have a smooth even finish. pH: 5.5 - 8.5 (2811).	Color- Unless otherwise specified, color shall be the natural white of the finished rayon yarn. Colorfastness- "good" (4630). When specified, tape or webbing shall contain 1 end of warp yarn dyed Red to match Cable No. 70180 and woven into the center of the face of tape or webbing. Use of solution dyed yarn is permissible.	See spec. for weave instructions.	Intended Use- In the manufacture of parachute canopies for bombs.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight yd/lb		Width Inch	Warp Yarns - Full Width		Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Denier	
Tape, Parachute Canopy, Textile, Nylon MIL-T-5608F (ASG)	Warp / Fill / Stuffer		Min	Max		Total	Face & Back / Binder / Stuffer					W	F
Class A- Extra lightweight		Class A: Semi-dull			(4)		Selvage						
Types: I		normal tenacity light resistant nylon.	1300	-	0.250	72	12	140	13	13		20	40
II			875	-	0.375	104	12	140	18	18		20	40
III			440	-	0.625	237	32	140	43	18		20	40
IV			260	-	1.250	352	32	140	65	18		20	40
V			165	-	2.000	537	32	-	96	18		20	40
Class B- Lightweight		Classes B, C, D & E:											
Types: I		bright high tenacity, heat & light resistant nylon.	970	-	0.250	86	12	118	22	18		30	40
II			650	-	0.375	126	12	118	33	18		30	40
III			360	-	0.625	237	32	118	70	18		30	40
IV			210	-	1.250	392	32	118	120	18		30	40
V			120	-	2.000	657	32	-	200	18		30	40
VI			50	-	5.000	1616	32	-	100 (lb/in) (5104)	18		30	40
Class C- Medium weight		All Classes: polyamide of hexamethylene diamine & adipic acid or its derivatives. Melting point: 250±6°C.											
Types: I			770	-	0.250	100	12	82	39	22		40	40
II			520	-	0.375	148	12	82	58	22		40	40
III			335	-	0.625	227	32	82	90	22		40	40
IV			160	-	1.250	457	32	82	185	22		40	40
V (Continued)			100	-	2.000	757	32	80	300	22		40	40

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-5608F Class A Class B Class C (Continued)	Yarn of tape shall not be bleached in any manner or process. pH: 5.0 - 9.0 (2810).	Color- Unless otherwise specified, color shall be natural, except for Class B, Type VI, which shall be dyed international orange, color No. 12197 of Fed. Std. No. 595, and Class C, Type V, which shall be yarn or piece dyed yellow, Air Force color No. 1365 (3). Colorfastness- Standard sample available (5660-5651).	Weave: Unless otherwise specified, weave of body of cloth shall be a conventional 2-up, and 2-down right-hand twill, except that for Class E, Type VI, warp ends shall weave 2 ends as 1. Unless otherwise specified, selvage weave for Classes A, B, and C shall be a double weave of conventional hatband type. For Classes D and E, there shall be no additional selvage ends. Air Permeability: Class A, Type V: Class B, Types V and VI; and Class C, Type V- 150±30 cfm/sq ft. Finished tape shall not lose more than 25% of its original strength when exposed to heat and light (4.2.3.2.1 - 4.2.3.2.2).	Intended Use- In the fabrication of parachutes of tape-type construction known as "ribbon parachutes".

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight yd/lb	Width Inch	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Denier
Tape, Parachute Canopy, Textile, Nylon	Warp / Fill / Stuffer		Min / Max		Total / Face & Back / Binder / Stuffer					W / F
MIL-T-5608 (ASG) (Cont'd)										
Class D- Heavy weight				(4)	Selvage					
Types: I		See p. 265.	80 -	1.250	94 0	52	280	18		210 / 210/2
II			45 -	2.000	154 0	52	460	18		210 / 210/2
Class E- Extra heavy-weight										
Types: I		See p. 265.	50 -	1.250	240 0	36	650	18		210 / 210/2
II			30 -	2.000	378 0	36	1000	18		210 / 210/2
III			22 -	2.000	280/1 0	36	1500	-		420 / 420
IV			17 -	2.000	378/1 0	36	2000	-		420 / 420
V			13 -	2.000	260 0	26	3000	-		840/1 / 840/1
VI			11 -	2.000	350 0	24	4000	-		840/1 / 420/1

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-5608F (Cont'd)	For additional information see page 265.			
Class D				
Class E				

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/yd	Width Inch	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inches (503
Webbing, Textile, Nylon, Tubular MIL-W-005625F (GL)	Warp / Fill / Stuffer		Min / Max	(±1/16)	Total / Face & Back / Binder / Stuffer				Max.
Sizes:		Bright, high tenacity, heat & light resistant polyamide of hexamethylene diamine & adipic acid or its derivatives. Melting point: 482°F. min. Singles yarn, 840 denier +5%, 140 filament.	- 0.50	1/2	111	26	1000		0.090
			- 0.60	9/16	137	26	1500		0.090
			- 0.70	5/8	81	26	1250		0.100
			- 1.05	3/4	109	26	2300		0.120
			- 1.70	1	159	26	4000		0.120

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTE (Not Specification
MIL-W-005625F		Color- Except for identification yarns (see spec.) webbing shall be furnished in natural and Yellow No. 1365 as specified. Standard samples available (3). When dyed webbing is required, webbing shall be piece dyed. Colorfastness- Standard sample available for dyed webbing (5660-5614). Webbing shall not be bleached in any manner or process.	Weave shall be tubular, plain, 1-up and 1-down. Residual shrinkage of natural and dyed webbing shall be no more than 2% (4.3.4). Webbing shall lose no more than 25% of original breaking strength when exposed to heat and light (4.3.2-4.3.3).	Intended Use- For parachute constru

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight oz/lin yd		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Yarn Ply Min.	
Tape and Webbing, Textile, Cotton Reinforcing, Woven MIL-T-5661C	Warp	Fill	Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer					W	F
							(±1/32)										
Type I- Plain Sizes:				Cotton	-	0.11	1/4	7				20	80			4	2
					-	0.15	3/8	10				20	120			4	2
					-	0.22	1/2	14				20	150			4	2
					-	0.28	5/8	18				20	170			4	2
					-	0.33	3/4	22				20	200			4	2
					-	0.47	1	30				20	250			4	2
Type II- Double herringbone Sizes:				Cotton	-	0.15	1/2	142				48	110			2	2
					-	0.22	3/4	212				48	165			2	2
					-	0.29	1	284				48	220			2	2
					-	0.36	1-1/4	356				48	275			2	2
					-	0.43	1-1/2	426				48	330			2	2
					-	0.50	1-3/4	496				48	375			2	2
					-	0.57	2	568				48	425			2	2
Type III- Twill Sizes:				Cotton	-	0.10	1/2	64				60	45			2	1
					-	0.12	5/8	85				60	55			2	1
					-	0.14	3/4	96				60	75			2	1
Type V- Plain (Transverse cord) Sizes:				Cotton	-	0.65	1	48				16	350			4	4
					-	1.30	2	96				16	650			4	4
Type VI- Nonelastic Sizes:				Cotton	-	0.23	5/8	-	95	22	37	46	80			See spec.	
					-	0.98	1	-	112	30	31	52	375			See spec.	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-5661C Type I Type II Type III Type V Type VI	(5) Type I tape and webbing shall be compatible with aircraft dope. Dope shall dry within 45 min. and show no signs of cracking and peeling when applied to finished tape and webbing as specified in 4.4.7. pH: 6.0 - 8.0 (2811).	Color- Unless otherwise specified, color for all Types shall be natural (unbleached). When an Olive Drab color is specified, it shall match TCA Cable No. 66022, Shade S-1 (U.S. Army Olive Drab). Colorfastness- "good" (5651-5630-5632-5660).	Weaves- Type I: Plain (1-up 1-down). Type II: 2-up, 2-down herringbone twill weave, having 3 reversals of twill, 1 at center & 1 on each side of center midway between center & edge. All ends shall be woven singly in the warp. Type III: a 2-up, 2-down twill with reversal at 1/4 and 3/4 of the width. Type V: Plain, with 2 warp yarns weaving as 1, except that at the selvage there shall be 3 warp yarns weaving singly. Type VI: Weave known commercially as "nonelastic." See spec. for diagram.	Intended Use- Type I: For reinforcing tape on cloth under lacing cords of airfoil sections. Types II, III, V and VI: For building and reinforcing applications in paracnute packs.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/lin yd	Width inch	Warp Yarns - Full Width	Picks Per inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness inch (5030)	
Webbing, Textile, Elastic, Cotton MIL-W-5664B	Warp / Fill / Stuffer		Min / Max		Total / Face & Back / Binder / Stuffer					
Class 1		Cotton	- 0.28	(4) 3/8					.016-.046	
			- 0.38	1/2					.016-.046	
			- 0.53	3/4					.016-.046	
			- 0.55	7/8					.016-.046	
			- 0.73	1					.016-.046	
			- 1.00	1-1/2					.016-.046	
			- 1.60	2					.031-.061	
			- 2.00	2-1/2					.031-.061	
Class 2		Cotton	- 2.30	1-1/2					.094-.156	
Class 3		Cotton	- 2.35	1-1/2					.094-.156	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-5664B Class 1 Class 2 Class 3	pH: 6.0 - 9.0 (2811).	Color- Webbing shall be yarn or piece dyed. Class 1: Natural or dyed (1). If Sage Green is specified, webbing shall be dyed to match shade sample for Sage Green color No. 531. When natural is specified, webbing shall be unbleached. Class 2: Natural or dyed (1). When specified, face shall be black & back white. Black shall conform to TCA Cable No. 66507 shade G (Black), and white shall conform to TCA Cable No. 70001 white (crepe side). Sage Green Color No. 531. Class 3: Unless otherwise specified, shall match TCA Cable No. 66022 shade S-1, U.S. Army Olive Drab. Sage Green shall match shade sample for Sage Green No. 531. Colorfastness- "good" (5651-5660-5630).	See spec. for amount of load to produce 50% elongation & for low temperature elongation resistance. Drift of load on webbing, elongated & maintained at 50% elongation for 4 hours, shall be not more than 20% (4.6.2). After webbing has been elongated and maintained at 50% elongation for 10 min, and then allowed to rest for 10 min., the webbing tension set (change in length of sample) shall be not more than 5%. Same requirement shall hold after heat aging.	Intended Use- Class 1: For headbands for aviator's face masks and goggles, parachute packs and harnesses, service cap covers, gloves, waist bands, and for harness elastic on gas mask face pieces. Class 2: For suspenders. Class 3: For parachute packs and rip-cord grip pocket for parachutes.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/yd	Width Inch	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Ply of Warp Ends Min.
Webbing, Textile, Cotton Warp MIL-W-5665E, Amd. 1	Warp / Fill / Stuffer		Min / Max		Total / Face & Back / Binder / Stuffer					
Class 1A- Undyed & not fungus proofed Class 1B- Undyed & fungus proofed Class 2A- Dyed & not fungus proofed Class 2B- Dyed & fungus proofed Class 3- Resin dyed & fungus proofed during dyeing		Warp: Cotton Fill: For types I-VII, IX, XII, XIII, XVII, XVIII, and XIX- Cotton. For Types VIII, XV, and XVI- bright, high tenacity, heat & light resistant polyamide of hexamethylene diamine & adipic acid or its derivatives.		(4)						
Types: I		Unbleached.	- 0.40	9/16	68	20	350		.040-.050	4
II			- 0.75	1	122	20	575		.040-.050	4
III			- 0.90	1-1/4	158	20	750		.040-.050	4
IV			- 2.50	3	200	16	1900		.050-.100	3
V			- 4.30	5	350	16	3100		.050-.100	3
VI			- 2.10	1-3/4	116	11	1800		.070-.090	5
VII			- 3.00	1-3/4	122	24	2600		.140-.170	7
VIII			- 3.00	1-3/4	132	10	2900		.075-.095	7
IX			- 4.65	3	175	12	4500		.090-.115	6
X			- 3.50	1-3/4	160	20	5000		.130-.150	6
XII			- 1.25	1-3/4	220	20	1000		.040-.050	4
XIII			- 3.40	1-3/4	126	11	3400		.100-.130	6
XV			- 3.50	1-3/4	150	20	4500		.130-.150	6
XVI			- 2.60	1-3/4	124	10	2700		.095-.115	7
XVII			- 1.25	1	70	11	1000		.075-.095	5
XVIII	(+3%)		- 1.40	2-1/2	270	20	1250		.050-.060	4
XIX	11/9 10/4 8/7		3.68 -	2	- 139 33	21	2500		.130±.01	-

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-5665E Class 1A Class 1B Class 2A Class 2B Class 3 Type I Type II Type III Type IV Type V Type VI Type VII Type VIII Type IX Type X Type XII Type XIII Type XV Type XVI Type XVII Type XVIII Type XIX	(5) Webbing shall be subjected only to light spring calendering to smooth out surface. Class 1B, 2B & 3 shall be treated with either copper-8-quinolinolate or 2,2' methylene-bis-(4-chlorophenol) mildew inhibitor agents as specified. Copper-8-quinolinolate: Webbing shall be mildew resistant treated by evenly depositing within the webbing a min. of 0.13% to a max. of 0.40% copper as metal from copper-8-quinolinolate, using method of application outlined in spec. 2,2' methylene-bis-(4-chlorophenol): Webbing shall be treated to resist mildew with 1.1-1.6% of 2,2' methylene-bis-(4-chlorophenol), using method of application outlined in spec. pH: For Classes 1B, 2B & 3: 5.5 - 8.5 (2811).	Color- Webbing shall be natural, dyed Olive Drab No. 7, or other color as specified. Standard samples available (3). Classes 2A & 2B: Oil dyeing is prohibited (6). Shade of dyed webbing prior to application of finish shall match standard sample. Class 3: Resin dyed with fungus resistant treatment added during dyeing process. Dyed and finished webbing shall match standard sample. Colorfastness- Classes 1A, 1B, 2A & 2B: standard sample available (5651-5660). Class 3: standard sample available (5651-5671-5630). See spec. for instructions on colored marking threads.	Shrinkage of finished webbing shall not exceed 12.5% (4.3.1). Weave- Types VII & X: See spec. for diagram. Weave for Type XIX shall consist of a face warp & a back warp bound together by a binder warp & a filling. Face warp shall weave plain, with the picks that show on the face, and the back warp shall weave plain with the picks that show on the back. Binder warp ends shall weave over 2 and under 2. Weave for all other types: 2-up, 2-down herringbone twill with 1 twill reversal in the center of the webbing.	Intended Use- In cargo parachute harnesses & packs, cargo drop kits, cargo tie down lines, hoists and slings, life raft belts and crew bunk safety belts. Copper-8-quinolinolate is to be used in fungus proofing of webbing intended for equipage subject to considerable ground contact under conditions of actual use, and where color is not of primary importance. It is not to be used on webbing in contact with natural rubber materials. 2,2' methylene-bis-(4-chlorophenol) is to be used where color is of prime importance or where webbing may be in contact with natural rubber materials.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight oz/lin yd		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Yarn Ply	
Tape, Textile, Nylon, Parachute, Construction MIL-T-6134B	Warp	Fill	Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer					W	F
Type I				Nylon (a)	-	0.40	(±1/16) 1	206				44	525	16	0.025-.045	1	4
Type II				Nylon (a)	-	0.145	1	104				58	300	14	0.010-.030	1	2

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-6134B Type I Type II		Color- Unless otherwise specified, color for both Types shall be natural, except for identification yarns for Type I. If color is specified, specific colorfastness requirements shall be as specified by procuring activity.	(a)Polyamide of hexamethylene diamine & adipic acid or its derivatives. Melting point: 250±6°C. Warp: 210 denier, high tenacity, bright filament. Fill: Spun nylon of 20/4 for Type I, and 60/2 for Type II (±5%). Weave- Type I: Tubular, plain weave. Warp ends may weave 2 ends as 1, or 1 end as 1. Type II: 2-up, 2-down herringbone twill, with 1 reversal in the middle. Tape shall have a woven selvage.	Intended Use- In the manufacture of parachutes. Type I: In skirt bands for parachutes. Type II: for reinforcing bands on parachutes.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/yd	Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Yarn Ply		
	Warp	Fill	Stuffer	Min Max		Total	Face & Back	Binder	Stuffer				W	F	B
Webbing, Textile, Nylon, Latex Impregnated MIL-W-8630C, Amd. 2					(4)										
Types: I			Bright nylon. All Types but IV: 210 den. 34 filament. Type IV: 840 den. 140 filament. All yarn shall be sunlight resistant type.	- 2.40 (initial) - 2.65 (impregnated)	1-15/16	200				22	5300		.075-.095	10	-	6
II				- 2.25 (initial) - 2.45 (impregnated)	1-15/16	196				17	5500		.055-.075	10	-	10
III				- 4.20 (initial) - 4.60 (impregnated)	3		309	37		28	8200		.080-.100	10	7	10
IV				- 5.10 (initial) - 5.60 (impregnated)	1-15/16		246	40		21	13000		.170-.180	5	4	10
V				- 2.90 (initial) - 3.20 (impregnated)	1-23/32		225	29		22	6500		.080-.100	10	4	7
VI				- 3.70 (initial) - 4.05 (impregnated)	1-23/32		305	37		22	8700		.110-.130	10	4	10
VII				- 1.70 (initial) - 1.90 (impregnated)	1-23/32	132				18	3600		.055-.080	10	-	10

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-8630C Type I Type II Type III Type IV Type V Type VI Type VII	(5) Webbing shall be impregnated with a suitable natural rubber latex compound containing the necessary curatives & antioxidants. Webbing shall be saturated by total immersion in a latex bath for a period of time sufficient to allow penetration to the core of the web. Excess may be removed by suitable devices. Totally impregnated webbing shall then be properly dried and vulcanized to develop max. physical properties. Use of any dyestuffs, detergents, curative methods, impregnating compounds, or other chemical or finishing agents which are known to cause deterioration in storage or cause dermatitis on prolonged intimate skin contact or increase the flammability of the webbing is prohibited.	Color- Unless otherwise specified, color of Types I & II shall match TCA Cable No. 16522 Cinder Gray. Other Types shall match TCA Cable No. 66022, Shade S-1 (U.S. Army Olive Drab). Webbing shall be uniformly dyed before any finishing agent is applied, and before impregnation. Color penetration shall be good in both warp & fill. Metallized or chrome dyes shall not be used. Colorfastness- "good" (5660-5614).	See spec. for weave instructions. Webbing shall lose not more than 5% of original strength after abrasion (4.5.2.4). Breaking strength of impregnated webbing shall not be less than 80% of unexposed untreated webbing after exposure to acc. weathering (4.5.2.5). Webbing shall display no appreciable stiffening or change in pliability when subjected to low temps. (4.5.2.6). Webbing shall lose no more than 5% of original breaking strength after acc. oven aging. After cooling, aged webbing shall display no stickiness or gumming (5850).	Intended Use- In the manufacture or aircraft tie-down and armament-handling equipment, and other safety devices.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight oz/lin yd		Width inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	
	Warp	Fill	Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer					
Webbing, Textile, Cotton, Stow-Loop MIL-W-9406 (USAF)				Cotton	8.19	9.0	3-1/2 (± 1/8)						1100		.085±.015	
Tape, Textile, 1-Inch MIL-T-10372A (MU)	26/2	30/2		Cotton	0.20	-	1 (±1/16)	114				46	(5102) 140			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-9406	Use of dyestuffs, detergents, or other chemical or finishing agents which would cause deterioration or affect color in storage or cause dermatitis on prolonged intimate skin contact is prohibited.	Color- Color of webbing and loops shall be natural, except for 1 binder thread, which shall be black (6). Colorfastness- "good" (5651).	See spec. for weave diagrams.	Intended Use- In the manufacture of troop-type parachute packs.
MIL-T-10372A		Color- Shall be Olive Drab shade No. 7 (6).	(2) Weave shall be a 4-harness herringbone twill, 2/2, with 5 divisions alternating to the right and to the left. Cloth shall be mildew resistant and non-toxic on the skin.	Intended Use- For use with the ABC-M4 dust respirator.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/lin yd	Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	
Webbing, Textile, Woven, Low Elongation MIL-W-10828C (OL) Amd. 1	Warp / Fill / Stuffer		Min / Max		Total	Face & Back	Binder	Stuffer					
Type I- Low strength	12/3	Cotton & continuous filament saponified acetate stuffer of 270 denier, 9 ply.	(±5%) 1.00	(±1/16) 1.0	Body 78	Edges 18	14	15	56	600	8 at 600 lb.		
Type II- High strength	12/3		2.05	1.5	120	18	21	88	56	2000	8 at 2000 lb.		
Type III- Super strength	12/3		3.40	1.5	120	18	21	196	84	5000	8 at 5000 lb.		
Class 1- Undyed Class 2- Undyed, water repellent & mildew resistant finish. Class 3- Dyed, water repellent & mildew resistant finish.													

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-10828C Type I Type II Type III Class 1 Class 2 Class 3	(5) Class 2 & 3 webbings shall be water repellent & mildew resistant treated. The water repellent shall consist of aluminum salts of saturated carboxylic acid (such as formate, acetate, palmitate, or stearate) mixed with refined mineral and vegetable waxes. Product shall be applied either as an aqueous emulsion or as a water-free solvent solution. Dynamic absorption of treated webbing: 40% max. Mildew resistant treatment shall be through an even depositing of 0.[illegible]3-0.40% copper as metal from copper-8-quinolinolate, by the method outlined in the spec. Webbing shall be dried after finishing with sufficient tension for elongation. pH: Classes 2 & 3: 5.5 - 8.5 (2811).	Color- Unless otherwise specified, color of Class 3 webbing shall be Olive Drab No. 7, and the color of finished webbing shall match standard sample (3). Color of Class 2 webbing may deviate from natural by that degree imposed by the finishes. Class 3 webbing shall be stock or yarn dyed. Only those warps specifically listed as "stuffer warps" may, if properly covered, be undyed. Good dye penetration. Webbing shall be soaped & washed after dyeing (6). Colorfastness- Standard sample available. Class 2: (5651). Class 3: (5651-5671).	(2-7). See spec. for weave diagrams.	Intended Use- As framing in manufacturing of tents and liners, and backs for packboards, and other special applications requiring low elongation webbings.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/lin yd		Width inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness inch (5030)	
	Warp	Fill	Stuffer	Min	Max		Total	Face & Back	Binder	Stuffer				
Tape, Textile, Cotton For Bandoleers MIL-T-13452A (ORD)			Cotton	0.35	0.39	1-3/8 (-1/8) (no +)					185 warp 66 fill			
Webbing, Woven, Nylon MIL-W-17337A (NAVY)						(±1/16)		Woven Tubular						
Sizes:			Bright, high tenacity, continuous filament nylon, 840 denier.	-	0.71	1	119	96	22		48	1200		
				-	1.07	1-1/2	179	144	34		48	1800		
				-	1.42	2	239	192	46		48	2200		
				-	2.2	3	356	288	68		48	3200		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-13452A	(5) Chloride content: no more than 0.020%. pH: 7.0 - 8.0 (2810).	Color- Shall be Olive Drab No. 7, and shall be produced by vat dyes to match approved standard shade (3-6). Chromium salts shall not be used for oxidation of vat dyestuffs. Colorfastness- Standard sample available (5651-5610-5600-5660).	Weave: Unless otherwise specified, weave shall be 2/2 herringbone twill.	Intended Use- In making bandoleers for small arms ammunition.
MIL-W-17337A	(5) No extraneous weighting material shall be added to the webbing.	Color- Unless otherwise specified, webbing shall be dyed Orange-Yellow conforming to shade No. 33538 of Fed. Std. 595 or Deck gray conforming to dry standard color chip of MIL-P-699 (1-3). Colorfastness- Standard sample available (5651-5660-5610).	(2) Weave: Webbing shall be of tubular construction, with a 1-up and 1-down weave, with the exception of the binder ends, which shall be evenly spaced across the width of the webbing and shall be woven plain, 2 ends weaving as 1.	Intended Use- In the manufacture of life preservers and other equipment.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/lin yd	Width Inch	Warp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	
Tape, Nylon; Elastic; One-Inch MIL-T-17964A (MC)	Warp / Fill / Stuffer		Min / Max		Total / Face & Back / Binder / Stuffer					
		200/34 or 210/34 den. nylon & 37 gauge extruded natural rounded rubber.	0.5 -	1 (+ 1/16) (- 1/32)	65 / Rubber 32 min.	69±5		(4121 of 601) 130		
Webbing, Textile: Knitted, Nylon; Elastic 4-1/4 Inch-Width MIL-W-17965A (MC)		50 gauge extruded natural round rubber elastic wrapped with 70 & 200 den. nylon. Knitting yarns: 210 den. nylon.	2.2 2.6	4-1/4 (±1/8)	Wales 22 (±2)	Ribs 19±2		(4121 of 601) 200	0.038 (±.003)	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-17964A		Color- Unless otherwise specified, color shall be Olive Drab No. 7. Colorfastness- "good" (5651-5622-5660-5682).	(2) Tape shall be made on a carrier braider. Ends per carrier: 2 min. Weave: 2/2.	Intended Use- For use on Marine Corps clothing and equipage items.
MIL-W-17965A		Color- Unless otherwise specified, color shall be Olive Drab No. 7. Colorfastness- "good" (5651-5622-5660-5682).	(2) Total sewing sections (warp): 6 min. No. of ends per sewing section: 6 min. Knitted webbing shall have a transverse web of interlocking and interconnecting warp and filling yarns with a selvage at each edge. Laid-in elastic warps shall consist of a rubber core wrapped first with 2-ply, 70 denier nylon, and then wrapped with single ply, 200 denier nylon.	Intended Use- On Marine Corps clothing and equipage items.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight oz/yd		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)
	Warp	Fill	Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer				
Cloth, Glass; Tape, Textile, Glass; and Thread, Glass MIL-C-20079C, Amd. 1 (See also under Synthetic Cloths)															
Type I- Cloth (See Synthetic Cloths)															
Type II- Tape Class 1- Plain weave, untreated				Continuous filament fibrous glass	(±10%) (untreated) 5.80		(1)	42±2				32±2	(5104) 150 (initial) 40 (after heating)		
Class 2- Plain weave, treated					5.80 (untreated) 7.05 (treated)		(1)	42±2				32±2	150 (initial) 40 (after heating)		
Class 3- Knitted, untreated					11.25		(1)	10±2				22±2	15 (initial) 9 (after heating)		
Type III- Thread Class 1- Medium weight sewing					(yards/lb) 640								48		
Class 2- Heavy weight sewing					350								75		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-C-20079C Type I Type II Class 1 Class 2 Class 3 Type III Class 1 Class 2	Unless otherwise specified, Class 2 tape shall be treated with a suitable synthetic resin.		Weave: Class 1 and Class 2 tape shall be plain woven. Ends shall be properly interlocked with picks to insure that there shall be no ravelling of tape edges. Class 3 tape shall be knitted. Wales shall be properly interlocked with courses to insure that there shall be no ravelling of tape edges. Construction of tape shall be such that there shall be no distortion of the tape such as curling.	Intended Use- As a lagging material or jacket over thermal insulation.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight oz/lin yd		Width inch	Warp Yarns - Full Width				Picks Per inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness inch (5030)	Ply	
	Warp / Fill / Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer					W	F
Webbing, Textile, Nylon-Pneumatic Life Preserver MIL-W-21733 (AER)															
Type I- Harness webbing	210/4 210/4 binder 210/4	Bright, high tenacity, 210 den. nylon. Melting Point: 250±6°C.	-	1.07	1-1/2 (±1/16)	178	144	34		48	1800				
Type II- Accessory webbing	210/2 210/4		-	0.40	1 (±1/32)	100	100			40	575				
Webbing, Nylon, Slotted (For Cargo Ships) MIL-W-23223 (SHIPS)					(±1/16)										
Type I		840 denier ultra-violet resistant, high tenacity continuous filament nylon.	2.3	-	1-3/4	280				24±1	6000 (initial) 90% (after abrasion)		0.080-0.110	2	2
Type II			1.7	-	1-1/4	200				24±1	4500 (initial) 90% (after abrasion)		0.080-0.110	2	2
Type III			1.28	-	1	160				24±1	3500 (initial) 90% (after abrasion)		0.075-0.100	2	2

Class A- Anti-static treated.
Class B- Standard treated.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-21733 Type I Type II		Color- Unless otherwise specified, color shall be Orange Yellow to match TCA Cable No. 70068, Spanish Yellow (crepe side). Colorfastness- "good" (5660).	Weave- Type I: A double plain weave, 1 end as 1 with a single filling. Binders shall be drawn to weave in groups of 2. See spec. for instructions. Type II: 2-up and 2-down herringbone twill with 1 reversal in center.	Intended Use- In the manufacture of various pneumatic life preservers.
MIL-W-23223 Type I Type II Type III Class A Class B	Unless otherwise specified, webbing shall be impregnated with a suitable polychloroprene compound containing the necessary curatives, pigments, acid acceptors, flameproofing compounds, and antioxidants. A deposit of not less than 8% solids shall be made. If anti-static webbing is required, conductive rubber latex impregnation shall be used in lieu of polychloroprene. Anti-static treatment shall increase weight of webbing by 7-14%. Yarn shall be substantially free from sizing, loading, or other adulterants.	Color- Webbing (excluding markers, web insertions, and anti-static treated webbing) shall be Olive Drab. The anti-static treated webbing shall result in a charcoal color from the treatment with conductive rubber latex so that it is readily identifiable. Yarn shall be yarn or piece dyed with acetate dyes. Olive Drab color dyes are not required in anti-static treated. Metallized or chrome dyes shall not be used. Colorfastness- "fair" (5600-5614).	Weave: A double plain weave with filling acting as binder. Shall have integrally woven slots. See diagram. See spec. for length & spacing of slots. Webbing shall not stiffen at low temps (4.5.2). See spec. for weight of polypropylene & rubber to be used. Use of dyes, detergents, or other chemical or finishing agents which would cause deterioration in storage, cause dermatitis on prolonged skin contact, or increase the flammability of the webbing is prohibited.	Intended Use- In fabrication of cargo slings.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight Oz/Yd		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Ply	
	Warp	Fill	Stuffer		Min	Max	(4)	Total	Face & Back	Binder	Stuffer					W	F
Webbing, Textile, Dacron MIL-W-25339 (USAF)																	
Types: I				220 denier continuous filament high tenacity type 5100 dacron	-	1.30	1-23/32	108				18	1800		.040-.050	7	9
II					-	1.80	1	120				20	3000		.110-.140	10	10
III					-	3.75	1-23/32	320				20	8700		.125-.145	10	9
IV					-	4.35	2	346				18	9700		.110-.130	10	10

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-25339 Type I Type II Type III Type IV	(5) Finished webbing shall be heat relaxed at a temp. in excess of 350°F. in such a manner that no more than 2% shrinkage occurs in testing. (4.3.2.1). pH: 5.0 - 9.0 (2811).	Color- Shall be natural. See spec. for instructions on identification yarns.	Weave- Type I: a 2-up, 2-down herringbone twill with 1 reversal at the center of the webbing. Types II, III, IV: See spec. for diagram.	Intended Use- In the fabrication of parachutes for use where exposure to high temp. conditions is anticipated.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight		Width Inch	Warp Yarns - Full Width			Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Ply		
Webbing, Textile Polyester, Low Elongation MIL-W-25361A	Warp	Fill	Stuffer		Min	Max	(4)	Total	Face & Back	Binder Stuffer					W	F	B
Type I- Untreated				Warp & fill for V & VI 1100 den. semi-dull or bright high tenacity polyester - polyethylene glycol terephthalate. Melting point: 250°+6°C. Fill for I, II, III and IV: spun nylon 15/3±3% on the cotton system.	-	1.65	1-23/32	154			19	3600	18 (2500 lb)	.050-.065	2	-	3
Type II- Untreated					-	2.10	1-23/32	216			23	6000	13 (3000 lb) 17.5 (5400 lb)	.060-.080	2	-	3
Type III- Untreated					-	2.50	1-23/32	256			23	7000	12 (3000 lb) 17.5 (6300 lb)	.075-.090	2	-	3
Type IV- Untreated					-	3.75	3	346			32	8700	12 (3000 lb) 18.5 (7830 lb)	.065-.090	2	-	3
Type V- Latex treated					-	3.90	1-3/4	362			22	10000 (initial) 9000 (after abrasion) 95% (after acc. aging)	9 (3000 lb) 16 (9000 lb)	.110-.130	2	-	2
Type VI- Latex Treated					-	7.50	1-3/4	449	37		17	15000 (initial) 13500 (after abrasion) 95% (after acc. aging)	7.5 (3000 lb) 17.5 (13500 lb)	.215-.235	3	2	2

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-25361A Type I Type II Type III Type IV Type V Type VI	(5) Types I, II, III and IV webbing shall be untreated. Types V & VI shall be treated with a natural rubber latex. They shall be impregnated with a natural rubber latex containing the necessary curatives and antioxidants. Webbing shall be saturated by total immersion in a latex bath for a period of time sufficient to allow penetration to the core, and the excess shall then be removed to permit conformance to finished weight requirements. Webbing shall then be dried and vulcanized. pH: 5.0 - 8.5 (2811).	Color- Types I, II, III & IV shall be natural white or shall match standard sample for Air Force shade Sea Green No. 1001 or Olive Drab No. 7 (3). Types V and VI shall be Olive Drab No. 7 (3). Colorfastness- Standard sample available (5651).	See spec. for weave diagrams and instructions. Types V & VI shall show no evidence of stickiness or gumminess after acc. aging (5850). Types V & VI shall show a change in pliability of no more than +20% after low temps. and a further change of no more than +20% after acc. aging. (5206-5850).	Intended Use- In aircraft safety belts and restraining harnesses. Type VI webbing is intended for use as slings for heavy rockets and rocket warheads.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Ply	
	Warp	Fill	Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer					W	F
Tape, Textile, Nylon, Loop MIL-T-26089 (USAF) Amd. 1				210 denier bright 34 filament high tenacity polyamide of hexamethylene & adipic acid or its derivatives. Melting point: 482°±10°F.	-	67 (yd/lb)	5/16 (tape & cord) 7/16 (tape & loop)	76	38 & 37			60	(4102) 175		0.030-0.040 (exclusive of cord)	1	3
Tape, Textile, Nylon, For Ring-Slot Parachutes MIL-T-27736 (USAF)				840 denier 140 filament ultraviolet resistant nylon polyamide of hexamethylene diamine & adipic acid or its derivatives. Melting point: 250°±6°C.	-	3.5 (oz/lin yd)	11 (±1/4)	48				36	(5104) 625 (warp) 450 (fill)				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-26089	(5) pH: 5 - 9 (2811).	Color - Tape shall match Air Force Sage Green shade No. 520 (3). Colorfastness- "good" (5651-5614-5660-5682).	Loop cord shall be manufactured in such a manner that the core yarns are held firmly in place to prevent puckering of core yarns when released from stress. See spec. for sleeve, core, and cord requirements. Weave: see spec. for diagram.	Intended Use- In flight clothing as a lacing tape.
MIL-T-27736	Finished tape shall be smooth and even, and shall contain no sizing, lubricating or weighting materials. Finish shall be permanent. Thickness shall not increase more than 10%, and cloth shall not shrink more than 5% in warp and fill (4.3.2.1). pH: 4.5 - 8.5 (2811).	Color- Shall be natural only.	Weave: See spec. for diagram. Selvage width: 1-1/8 ± 1/16 in. Breaking strength (warp) of selvage width: 900 lb. Air permeability: 70 ± 20 ft^3/min/ft^2 of cloth body.	Intended Use- In the fabrication of ring-slot parachutes. Existing narrow fabric looms may be used to weave the tape by folding over a 5-1/2 in. width on the loom that will unfold to an 11 in. finished tape off the loom.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Ply	
	Warp	Fill	Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer					W	F
Tape, Textile, Nylon, Aromatic, Nonmelting, Parachute Canopy																	
MIL-T-38377 (USAF)					(Yds/Lb)		(±0.0625)		Selvage								
Type I				Nonmelting aromatic polyamide. No carbonization below 800°F. Type I: 100 denier. Types II & III: 200 denier.	100	-	2	258	32			70	300 (initial) 85% (aged)	12		1	1
Type II					30	-	2	450	-			36	1000 (initial) 85% (aged)	12		1	2
Type III					12	-	2	320	-			26	3000 (initial) 85% (aged)	-		4	4
Braid, Textile, Cord-Edge, Polyester Fiber					(Ounces/ (gross yds)				No. of Carriers						Ends/Carrier min.		
MIL-B-40092A				(a) 60/4 or 30/2 Cotton & multifilament polyester conforming to Type I, Class 1 of V-T-285.	20	-	3/32-1/8 (cover) 3/16-1/4 (flat braid)		19 min. (cover) 21-25 (flat braid)			25 (cover) 25 (flat braid)			3 (cover) 2 (flat braid)		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-38377 Type I Type II Type III		Color- Shall be natural.	Weave- Body weave: A conventional 2-up and 2-down right-hand twill. Selvage: Type I shall be a double plain weave of a conventional hatband type. Types II and III shall have no additional selvage ends. Type I: Air permeability shall be 75±20 $ft^3/min/ft^2$.	Intended Use- For use in the fabrication of parachute canopies of tape-type construction known as ribbon parachutes.
MIL-B-40092A		Color- (1-6). Standard samples available (3). Colorfastness- Standard sample available (4614-4680-4660-5651).	(2) (a)Cover: 70 denier, 3 ply (letter size A). Core: 220 denier, 3 ply, plied 3 times (number size 3). Flat braid and core sections shall be braided together in 1 operation on a cord-edge braider. Cord section shall consist of a cover braided around a core of stuffer yarns. Flat section shall be reinforced with cotton yarns.	Intended Use- As piping on clothing.

NARROW FABRICS

NOMENCLATURE	Yarn Number	Fiber	Weight	Width Inch	Warp Yarns - Full Width			Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Ply		
	Warp / Fill / Stuffer		Min / Max		Total	Face & Back	Binder / Stuffer					W	F	B
Braid, Textile, For Cap Covers MIL-B-41803		Mercerized Cotton	70 - (oz/gross yd)	1-3/4 min.	40/6			26	200					
Webbing, Textile, Nylon MIL-W-43042 (ORD)			(oz/lin yd)											
Type I- 0.065 in. nominal thickness Sizes:		Continuous filament bright high tenacity nylon polyamide of hexamethylene diamine & adipic acid or its derivatives. Melting point: 250°± 6°C. 210 den. 34 filament	- 0.40	1/2	49	5		24	550	0.050-	4	8	4
			- 0.60	3/4	73	8		24	800	0.079	4	8	4
			- 0.80	1	97	11		24	1100	"	4	8	4
Type II- 0.090 in. nominal thickness Sizes:			- 1.20	3/4	109	13		24	2500	0.080-	8	8	3
			- 1.25	7/8	127	15		24	3000	0.100	8	8	3
			- 1.30	1	143	17		24	3400	"	8	8	3
			- 2.00	1-1/2	213	26		24	5000	"	8	8	3
			- 2.80	2	287	35		24	6700	"	8	8	3
			- 3.20	2-1/2	359	44		24	8200	"	8	8	3
			- 3.90	3	431	53		24	10000	"	8	8	3

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-B-41803		Color (1). Standard sample available (3). For white, cotton shall be bleached. Colorfastness- standard sample available (4614-4600-4622-4660).	(2) No. of lines: 20 No. of carriers: 81; 2 ends per carrier. Braiding Type 2/2 plain. Shrinkage: 3% max. in the warp (5550).	Intended Use- As a component of cap covers used by military personnel.
MIL-W-43042 Type I Type II	(5) pH: 5 - 9 (2811).	Color- Unless otherwise specified, webbing shall be piece dyed with acetate or acid type dyes of color Olive Drab No. 34087 of Fed. Std. 595. Metallized or chrome dyes shall not be used. Colorfastness- "fair" (5662).	(2-7). Weave: Webbing shall be composed of 2 ground warps (face and back), 1 binder warp, and 1 filling. Face warp shall weave plain (1 end as 1), with picks that show on face, and the back warp shall weave plain (1 end as 1), with picks that show on back. Binder warp shall weave plain throughout.	Intended Use- For manufacturing carrying straps for fire control instruments.

NARROW FABRICS

NOMENCLATURE	Yarn Number			Fiber	Weight		Width Inch	Warp Yarns - Full Width				Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongation % Max. (5100)	Thickness Inch (5030)	Ply	
	Warp	Fill	Stuffer		Min	Max		Total	Face & Back	Binder	Stuffer					W	F
Tape, Textile, Polyamide, High Temperature Resistant, Loop MIL-T-81116 (WEPS)				High strength aromatic polyamide, non-melting, 200 denier.	- (yds/lb)	67	5/16 (tape & cord) 7/16 (tape & cord loop)	76	38 (face) 37 (back)	Cord 1		60	(4102) 375			1	3
Webbing, Cotton, 1.2 Oz., Bleached 2 Inch (USMA) P/Des 295 (Superseding MIL-W-1643)	16/3	16/3/4	-	Cotton	1.2	-	(+1/16) (-1/32) 2	192				22	400				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-81116		Color- Shall be Olive Green. Color shall be obtained by the utilization of solution dyeing.	Loop cord shall be constructed in such a manner and with such a yarn tension that core yarns are held firmly in place to prevent puckering of core yarns when released from stress. Weave- See spec. for diagram. See spec. for requirements for sleeve, core, and cord.	Intended Use- As a lacing tape in the anti-G coveralls, Mark 2A, and related clothing.
P/Des 295	(5)	Color- Fully bleached and may be supplemented with fluorescent optical brighteners.	See spec. for weave instructions.	Intended Use- In the manufacture of equipage.

REFERENCES

NARROW FABRICS

Textile Test Methods - CCC-T-191b

Method	Title
	Chemical
2810	Acidity (pH), colorimetric method.
2811	Acidity (pH), potentiometric method.
	Construction
5030	Thickness of cloth.
	Mechanical
4102	Strength and elongation, breaking; small cords, single strand.
5100	Strength and elongation, breaking, of woven cloth, grab method.
5104	Strength and elongation, breaking, of woven cloth, ravel strip method.
5202	Stiffness, directional; cantilever bending method (Tinius Olsen).
5206	Stiffness, drape and flex; cantilever bending method (Pierce formula).
	Air Permeability and Water Resistance
4500	Water absorption; sewing thread; dynamic method.
5500	Water resistance, dynamic absorption.
	Shrinkage Resistance
5550	Shrinkage in laundering; cotton, linen, and mixed cotton and linen cloth.
5558	Shrinkage, relaxation; wool cloth.
	Colorfastness
4600	Colorfastness to chlorine bleaching; cotton yarn, thread and cordage.
4610	Colorfastness to laundering; cotton and linen yarn, thread and cordage; Launder-Ometer Method.
4614	Colorfastness to laundering; wool, silk and rayon yarn, thread and cordage; Launder-Ometer Method.
4622	Colorfastness to wet cleaning (associated with dry cleaning); yarn, thread, cordage.
4630	Colorfastness to water; yarn, thread, cordage.
4660	Colorfastness to light; yarn, thread, cordage; accelerated method (Fade-Ometer).
4680	Colorfastness to perspiration; yarn, thread, cordage; perspirometer method.
5600	Chlorine bleaching; cloth.
5610	Laundering, cotton and/or linen; Launder-Ometer.
5620	Dry cleaning (petroleum solvent).
5622	Wet cleaning (with dry cleaning).
5630	Water, cold.
5632	Salt water and soap.
5651	Crocking of cloth.
5660	Light; accelerated (Fade-Ometer).
5662	Light; natural light method.
5671	Weather; accelerated method (National Weathering Unit).
5680	Perspiration; perspirometer method.
5682	Perspiration; tube method.
	Mildew Resistance
5762	Mildew resistance; soil burial method.
	Deterioration Test
5850	Aging; accelerated oven method.

NATURAL FIBERS OTHER THAN COTTON AND WOOL

NOMENCLATURE	Weight Oz/Sq Yd		Weave	Width Inch	Yarn Ply	Yarns Per inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Dynamic Absorption Max. (5500)	Hydrostatic Pressure Low Range Min.	Water Permeability Max. (5516)	Point Value Max.
Cloth, Thread, and Tape; Asbestos	Min	Max			W	F	W	F	W	F		W	F			
SS-C-466e (See also under Narrow Fabrics)																
Form I- Cloth Grade U.G.- 80% asbestos, blue stripe	(±7%)						(±1)									
Style 1- plain weave, reg. wgt.	2.25	lb.	Plain	(1)			18	9	90	40						
Style 2- plain weave, lt. wgt.	1.40	lb.	Plain	(1)			19	10	80	40						
Style 3- plain weave, special wgt. No. 1 construction.	0.75	lb.	Plain	(1)			21	17	40	30						
Style 4- plain weave, special wgt. No. 2 construction.	1.05	lb.	Plain	(1)			20	15	65	40						
Style 5- plain weave, combination asbestos & glass, (asbestos yarn & glass filament yarn plied together) No. 3 construction.	1.10	lb.	Plain	(1)			13	9	90	70						
Style 6- plain weave, combination asbestos & glass, (asbestos yarn & glass filament yarn plied together). No. 4 construction.	1.40	lb.	Plain	(1)			18	9	90	40						
(Continued)																

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Tearing Strength, etc.)	NOTES (Not Specification Requirements)
SS-C-466e Form I Style 1 Style 2 Style 3 Style 4 Style 5 Style 6 (Continued)	Cloth may be finished to provide qualities and characteristics such as lint free, brushed, and filled, calendered, napped, dry-woven, or wet woven, providing tensile and construction qualities are maintained as specified.		Asbestos cloth, thread, and tape shall be made of good-quality chrysotile asbestos and organic fiber. Hygroscopic moisture shall not exceed 5% (4.4.1.1). Cloth shall be woven with single or plied yarns. Grade U.G. cloth shall contain no less than 80% asbestos. A blue marker thread shall be woven into each selvage.	Intended Use- Form I, Grade U.G.: For use as jacketing material over insulation where the temperature of the insulated surface is more than 125°F (52°C), except that it is not to be used on fittings and flanges, nor where it will be in contact with heated metal.

NATURAL FIBERS OTHER THAN COTTON AND WOOL

NOMENCLATURE	Weight Oz/Sq Yd	Weave	Width Inch	Yarn Ply	Yarns Per Inch Min. (5050)	Breaking Strength Lb. Min. (5100)	Air Permeability (5450)	Shrinkage Max. (5550)	Dynamic Absorption Max. (5500)	Hydrostatic Pressure Low Range Min.	Water Permeability Max. (5516)	Point Value Max.
Cloth, Thread, and Tape: Asbestos SS-C-466e (Cont'd)	Min | Max			W | F	W | F	W | F		W | F				
Grade AA- 90% asbestos, red stripe												
Style 1- plain weave, reg. wgt.	(+7%) 2.25 lb.	Plain	(1)		(+1) 18	9	100	40				
Grade AAA- 95% asbestos, green stripe												
Style 1- plain weave, reg. wgt.	2.25 lb.	Plain	(1)		18	9	125	50				
Style 2- plain weave, lt. wgt.	1.40 lb.	Plain	(1)		19	10	80	40				
Grade AAA-M- 95% asbestos, plain weave, wire insertion, no stripe	per sq. yd.						Diameter (±.001")	Wire Composition			No. of strands	
Style 7- nominal	2.60 lb.	Plain	(1)		18	9	.006	Soft annealed nickel			1	
Style 8- "	2.75 lb.	Plain	(1)		18	9	.008	Nickel-copper alloy (58% nickel)			1	
Style 9- "	3.50 lb.	Plain	(1)		18	9	.008	Nickel-copper alloy (58% nickel)			2	

(Continued)

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Tearing Strength, etc.)	NOTES (Not Specification Requirements)
SS-C-466e Grade AA Style 1 Grade AAA Style 1 Style 2 Grade AAA-M Style 7 Style 8 Style 9 (Continued)	For additional information see p. 287.		Grade AA- cloth shall contain not less than 90% asbestos. A red marker thread shall be woven in each selvage. Grade AAA- cloth shall contain not less than 95% asbestos. A green marker thread shall be woven in each selvage. Grade AAA-M- cloth shall contain not less than 95% asbestos exclusive of wire insertion. It shall be plain woven.	Intended Use- Form I, Grade AA cloth is intended for use as the outside surface on removable & replaceable covers for flanges & fittings where the temperature of the insulated surface does not exceed 500°F (260°C), or for the wrapping of engine exhaust pipes where the temperature of metal in contact does not exceed 500°F. Form I, Grade AAA cloth is intended for use as the outside surface on removable & replaceable covers for flanges & fittings where the temperature of the insulated surface is more than 500°F. or for the wrapping of exhaust pipes where the temperature of the metal in contact exceeds 500°F. Form I, Grade AAA-M cloth is intended for use as the inside surface on removable & replaceable flanges & fittings, or for the wrapping of engine exhaust pipes where the temperature of metal in contact shall be over 500° but not exceeding 1000°F.

NATURAL FIBERS OTHER THAN COTTON AND WOOL

NOMENCLATURE	Weight Oz/Sq Yd		Weave	Width Inch	Yarn Ply		Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Dynamic Absorption Max. (5500)	Hydrostatic Pressure Low Range Min.	Water Permeability Max. (5516)	Point Value Max.
Cloth, Thread, and Tape; Asbestos SS-C-466e (Cont'd)	Min	Max			W	F	W	F	W	F		W	F				
Form II- Thread, sewing, reinforced with wire									(4.4.2.1)								
Form III- Thread, sewing, without wire	450 yds/ lb. min.				2 max.	2			4								
Form IV- Tape (See Narrow Fabrics)																	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Tearing Strength, etc.)	NOTES (Not Specification Requirements)
SS-C-466e (Cont'd) Form II Form III Form IV	For additional information see p. 287.		Form II, thread, sewing, reinforced with wire- strands shall be composed of 3 nickel-copper wires, each of which shall have asbestos yarn spun around it, twisted together to definitely interlock the asbestos and wire. Each yarn shall be 10-cut and shall contain not less than 58% nickel and shall be 0.008 ±0.001 in. in diameter. Form III, thread, sewing, without wire- thread shall be made from yarn not heavier than 10-cut, 2-ply, and shall contain not less than 75% asbestos. One pound of thread shall provide not less than 450 yards.	

NATURAL FIBERS OTHER THAN COTTON AND WOOL

NOMENCLATURE	Weight Oz/Sq Yd		Weave	Width Inch	Yarn Ply	Yarns Per Inch Min. (5050)		Breaking Strength Lb. Min. (5100)		Air Permeability (5450)	Shrinkage Max. (5550)		Dynamic Absorption Max. (5500)	Hydrostatic Pressure Low Range Min.	Water Permeability Max. (5516)	Point Value Max.
Cloth, Burlap, Jute (Or Kenaf) CCC-C-467b	Min	Max (±5% tol.)			W | F	W	F	W	F		W	F				
Class 1- 7.5 oz.	6.7		Plain,	40		8-11	8-11									
Class 2- 8.0 oz.	7.2		modified	min.		9-12	8-11									
Class 3-10.0 oz.	9.0		plain, or	inc.		11-13	10-12									
Class 4-12.0 oz.	10.8		3-leaf	of		11-13	11-13									
			twill.	selvage												

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Tearing Strength, etc.)	NOTES (Not Specification Requirements)
CCC-C-467b Class 1 Class 2 Class 3 Class 4			Cloth shall be made of jute or kenaf, or any combination thereof, at the option of the supplier. Selvages shall be firm and straight, and may contain cotton yarn.	Intended Use- Burlap cloth is intended for use in equipage, covering of baled material, camouflage materials, sand bags, and overwrapping of textile products when packed for delivery. Jute is defined as the bast fiber obtained from various species of Corchorus. Kenaf is defined as the bast fiber obtained from Hibiscus Cannabinus.

GENERAL NOTES

NON-WOVEN TEXTILE MATERIALS

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) As specified.
(2) Preproduction sample.
(3) Colormatching.
(4) See specification for instructions on construction.
(5) Nonfibrous and extractable matter.
(6) Pre-award sample and laboratory report.
(7) Bid sample and laboratory report.
(8) See specification for weave diagram and/or instructions.
(9) Sulfur dyed.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd		Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	
Rag, Wiping, Cotton DD-R-30b		Min	Max		L | W					
Class 1- Unused fabrics.	Woven or knitted cotton fabrics. Class 1 shall consist of clean mill ends, mill remnants, or both. Rags shall be soft and absorbent, free from dust and abrasive material. Class 2 shall consist of fabrics reclaimed principally from household articles, none of which has been used for wiping rag purposes, and shall be soft and absorbent. Both Classes: Heavily napped fabrics, mesh fabrics, fabrics woven with hard twisted yarn, & starched or stiffened fabrics are not acceptable. U.S. Flags or Flags of other Nations, or remnants thereof are strictly prohibited.	(a)								
Grade A- White only		2.0	6.0	See spec. for requirements of area.					Water & oil shall be absorbed into cloths within 30 sec. (4.3.3).	
Grade B		2.0	12.0							
Class 2- Reclaimed fabrics.										
Grade A- White only		2.0	6.0	"						
Grade B		2.0	12.0							

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
DD-R-30b Class 1 Grade A Grade B Class 2 Grade A Grade B			(a)At least 35% of the weight in each inspection lot of Grade B fabrics shall consist of wiping rags weighing between 2.0-5.0 oz/sq yd. Class 2 wiping rags shall be thoroughly washed, rinsed, and sterilized. This processing shall be done within the United States, its possessions, or Puerto Rico. All Classes and Grades of wiping rags shall have a moisture content of no greater than 10% (4.3.3.2).	Intended Use- In wiping oil and grease from machinery and for miscellaneous cleaning.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Width Inch	Breaking Strength Min. (5100) L	Breaking Strength Min. (5100) W	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Bursting Strength Min. Lb. (dry)
Cloth, Cleaning, Nonwoven Fabric CCC-C-46a (GL) Amd. 1					Weaker Direction	Comb. Total Ave., Both	Tear Strength min. (dry)	Stiffness max. In. Lb. Stiffer Direction	Stiffness max. In. Lb. Weaker Direction		
Type I- Untreated Class 1- Lt. duty	Fibers & yarns shall be of vegetable, animal or synthetic origin, & the fibers or combination of fibers & yarns shall be in a planar assembly held together by a binder. When yarns are used, they shall be no more than 2" long. Binder shall be odorless & stable. Use of water-soluble plasticizer materials in Type I cloth shall not exceed 5% by weight.	1.26	2.40	(1)	-	-	-	-	-	(water) 350% min. by weight	12
Class 2- Med. duty		1.26	1.94	(1)	-	-	-	-	-	2 sec. max. (oil)	17
Class 4- Extra heavy duty		3.50	4.00	(1)	14 (dry) 7 (wet)	22 15	0.4	0.012	0.0085	275% min. by weight Classes 1 & 2: 30 sec max. Classes 4 & 5: 8 sec.	-
Class 5- Med. extra hvy. duty		1.75	2.25	(1)	7 (dry) 3 (wet)	15 6	0.4	0.006	0.002		-
Type II- Oil treated Class 5- Med. extra hvy. duty		2.00	2.76	(1)	3 (dry)	6	0.4	0.003	0.001	-	Elongation 40% min (dry) weaker direction

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
CCC-C-46a Type I Class 1 Class 2 Class 4 Class 5 Type II Class 5	Oil used for treating Type II, Class 5 cloth shall be a standard grade mineral-oil emulsion with an unobjectionable odor, having a non-tendency to sour or mildew after impregnation of the cloth. It shall be of a viscosity suitable for impregnating nonwoven cloth for polishing and cleaning purposes without harmful effects to the surfaces to which it is applied. Oil shall be nontoxic. Shall constitute 12-17% by weight. The bonded finished of Type I cloth shall be free from blocking (4.4), and shall not become brittle. Type II shall have a soft hand.	Color- Shall be unbleached, white or a dyed white or a dyed color as specified. When the following colors are specified, they shall approximate the following color numbers of Fed. Std. No. 595. White- 37886; Tan- 23594; Yellow- 23793; Red- 21150; Unbleached- 37855. Colorfastness- When a dyed color is specified, cloth shall show "fair" fastness (5651-5630).	(2) Cloth shall be in the form of either cut size-sheets or full-width rolls or bolts as specified. Finished cloth shall be essentially lintless when used in wet or dry condition. Class 1 cloth shall not be seriously affected by carbon tetrachloride, turpentine, and stoddard solvent (5508). Type I, Classes 4 & 5 shall not lose more than 2% in weight by extraction when immersed in a hydrocarbon fuel, and the cloths shall show no tackiness, appreciable stiffness, surface gelling, or other tactually observable effect (4.4.2). Cloths shall be free from objectionable odor. Type II, Class 5: The max. confidence limit (arithmetic mean), dirt pick-up efficiency shall average not less than 21% based on weight of cloth before soiling (4.4.3). Type I, Class 4: When specified by procurement officer, cloth shall be prewashed to remove any existing impregnated detergent, and the procurement officer shall state the percentage of allowable residual soluble materials acceptable.	Intended Use- Type I, Class 1: for dusting, wiping, washing, and polishing. Type I, Class 2: for survey markers. Type I, Classes 4 and 5: for use in industrial type wiping operations. Type II, Class 5: for dusting and floor wiping operations. Cloths are not intended for use where high-abrasive qualities of cloth are required. Type I, Class 5 cloth may be used to produce Class 5, Type II cloth.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd		Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	
		Min	Max		L | W					
Pad, Ironing Board, Cotton DDD-P-55a	Cotton. Card sliver shall be used to form the base material.	16.0	-	$15\frac{1}{2}$ (head) $4\frac{1}{2}$ (taper)	(4104) 200 (ave.) 190 (ind. test)					
Padding, Cotton, Stitched Roving CCC-P-86c										
Type I- $\frac{1}{4}$ in. thick (com.)	Cotton	lb. 1.0	-	(min.) 54 or 90						
Type II- 5/8 in. thick (com.)	Cotton	lb. 2.0	lb. 2.5	74						

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
DDD-P-55a			(4) Strands per inch, card sliver: 5 min. Rows per inch, warpwise stitching: 3 min.	
CCC-P-86c Type I Type II			(4)	Intended Use- Primarily for use on flatwork ironers and pressing machines.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	
		Min | Max		L | W					
Waste, Matted, Yarns, (Cotton, Colored) DDD-W-101b	Cotton yarns or a mixture of cotton and rayon yarns. 20%±5% of the yarns shall be min. 20 in. long, & not more than 5% shall be less than 3 in. 40% max. shall be fine undyed soft spun yarns. 20%±2½% shall be slasher yarns. 40% max. shall be fine dyed soft spun yarns. 20%±2% of nonbright spun-rayon yarns may be used in lieu of same quantity of cotton by weight. Yarns shall be free from excessive lint and hard-twisted string, shredded rag, premachined stock, soiled or oily stock, crepe yarn, lustrous rayon, yarns of more than 3-ply, dark colored yarns, fly sweepings, and dirt or other foreign matter.							Water & oil shall be absorbed within 30 sec.	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
DDD-W-101b	(5) Waste shall be machined twice to produce a uniformly mixed product with regard to color and length of yarns. White and colored waste shall be properly floor mixed by spreading each bale of stock material on a laying pile in successive layers, so that a portion cut from the edge of the pile to put through the machines will have its proper proportion of every bale of stock material used in the manufacture of the waste. All spools, needles, metal clips, etc. shall be removed. Tare content: 6%. Moisture content: 6.5%.			Intended Use- In wiping and and packing in journals.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd		Width Inch	Breaking Strength Min. (5100)		Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	
Felt Sheet (Hair) and Felt Roll (Hair) C-F-202c		Min	Max		L	W			(nominal)		
Type I- Platen or needle loom process, without backing.	Washed cattle hair. Felt shall contain no less than 95% cattle hair, except for the cloth reinforcement material for Types II, III, and V.	16	22						1/8		
		23	31						3/16		
		29	41						1/4		
		50	62						1/2		
		70	88						3/4		
		90	120						1		
		112	148						1-1/4		
		135	177						1-1/2		
		156	204						1-3/4		
		180	234						2		
Type II- Punched or needle loom processes, with tobacco cloth center reinforcement.		16	22						1/8		
		23	31						3/16		
		29	41						1/4		
		50	62						1/2		
		70	88						3/4		
		90	120						1		
		112	148						1-1/4		
		135	177						1-1/2		
		156	204						1-3/4		
		180	234						2		
Type III- Punched or needle loom processes, with tobacco cloth center reinforcement (breaking strength requirement) (Continued)		18	24		30	30			1/8		
		25	33		30	30			3/16		
		31	42		30	30			1/4		
		52	64		30	30			1/2		
		72	90		30	30			3/4		
		92	124		30	30			1		
		114	150		30	30			1-1/4		
		137	179		30	30			1-1/2		
		158	206		30	30			1-3/4		
		182	236		30	30			2		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-202c Type I Type II Type III (Continued)	When specified, felt shall be mildew resistant treated in accordance with MIL-T-2312. Requirements for organic acidity, alkalinity, and mineral acidity shall not apply to mildew resistant treated.	Color- Unless otherwise specified, felt shall be natural. The color resulting from the cattle hair used shall be acceptable.	(2-4). When specified, Types I, II, III, and V felt shall show an organic acidity of not greater than 0.2% (4.4.2). When specified, Types I, II, III, and V felt shall have a pH of 7.0 ± 1.0 (2811). Type IV: Shall show no sign of cracking. This requirement shall not apply to 1/8 thick (4.4.3). Class 1 felt shall show an organic acidity not exceeding 0.2%. Class 2 show a pH of 7.0 ± 1.0.	Intended Use- Type I: For insulation where the temperature will not be higher than 120°F. For cushioning, packing, padding, & crating where breaking strength is not important. Type II: For use as a cushion material in packing, padding, and crating, where a moderate breaking strength is required. Type III: For use as a cushion material for packing and crating where a high breaking strength is required, such as cushioning against shock. It may also be used for insulating purposes. Type IV: For packing, padding, and crating where a firm and semi-hard material is required. Other applications are: Polishing, resistance to impact, bumpers & vibration cushioning. Type V: For use as a soft, springy cushion under carpets and rugs.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd		Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	
		Min	Max		L | W					
Felt Sheet (Hair) and Felt Roll (Hair) C-F-202c (Cont'd)								(nominal)		
Type IV- Felted & fulled process		27	35				-	1/8		
Class 1- Untreated		40	52				4 lb.	3/16		
Class 2- Neutralized		54	70				4 lb.	1/4		
		67	87				4 lb.	5/16		
		81	125				4 lb.	3/8		
		108	140				4 lb.	1/2		
		162	210				4 lb.	3/4		
		216	280				4 lb.	1		
Type V- Felted process, burlap core		29	35					3/16		
		36	44					1/4		
		43	53					3/8		
		57	71					1/2		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-202c (Cont'd)	For additional information see p. 296.			
Type IV				
Class 1				
Class 2				
Type V				

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Width inch	Breaking Strength Min. (5100) L	Breaking Strength Min. (5100) W	Tensile Strength Min. (5100)	Splitting Resistance	Thickness inch	Water Absorption	Wool Fiber Content	Ash Content Max.
Felt, Sheet, Wool, Pressed C-F-206b, Amd. 1		(lbs.)		(min.)			(psi)	(lb/2")	(Nominal)			
Type I- Mechanical-roll felts	Fleece, pulled wool, wool noil, reprocessed wool, reused wool or a combination thereof.											
18R		2.15	2.35	60			600	35	1/8		95%	1½%
		3.23	3.53	60			600	35	3/16		95%	1½%
		4.30	4.70	60			600	35	1/4		95%	1½%
		5.38	5.88	60			600	35	5/16		95%	1½%
		6.45	7.05	60			600	35	3/8		95%	1½%
		8.60	9.40	60			600	35	1/2		95%	1½%
16R 1X		0.712	0.788	60 or 72			500	-	3/64		95%	1½%
		0.937	1.013	60 or 72			500		1/16		95%	1½%
		1.162	1.238	60 or 72			500		5/64		95%	1½%
		1.387	1.463	60 or 72			500		3/32		95%	1½%
16R 3X (Continued)		0.712	0.788	60 or 72			300	-	3/64		92%	2½%
		0.937	1.013	60 or 72			300		1/16		92%	2½%
		1.162	1.238	60 or 72			300		5/64		92%	2½%
		1.387	1.463	60 or 72			300		3/32		92%	2½%

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b Type I 18R 16R 1X 16R 3X (Continued)	Ammunition felt: (5) Organic acidity of extract calculated as acetic acid shall not exceed 0.12%. When specified, the felt shall be given a mildew resistant treatment in accordance with MIL-T-2312. When specified, felt shall be given a properly applied silicofluoride moth-repellent treatment in order that the felt will leave 0.5 - 0.85% by weight of silicofluoride as a nonsubliming silicofluoride. pH: 7.0 ± 1.0.	Color- 18R- White. 16R 1X- White, 3X- Gray.	(6)	Intended Use (suggested)- 18R: For use where a hard, high grade felt possessing long wearing properties is desired. 16R1X: For ball & roller bearing oil retainer washers and small dust excluding washers. Also for mechanical purposes where an accurate, thin, smooth, high-grade felt is required. 16R3X: For the same purposes as 16R1X, but in installations where tolerances & length of life are not as important. Also for thin cut parts such as gaskets and liners.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Width Inch	Breaking Strength Min. (5100) L	Breaking Strength Min. (5100) W	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Wool Fiber Content	Ash Content Max.
Felt, Sheet, Wool, Pressed C-F-206b (Cont'd		(lbs.)		(min.)			(psi)	(lb/2")	(Nominal)			
Type I- Mechanical roll felts												
16R1		0.95	1.05	60			500	33	1/16		95%	1½%
		1.90	2.10	60			500	33	1/8		95%	1½%
		2.85	3.15	60			500	33	3/16		95%	1½%
		3.80	4.20	60			500	33	1/4		95%	1½%
		4.75	5.25	60			500	33	5/16		95%	1½%
		5.70	6.30	60			500	33	3/8		95%	1½%
		7.60	8.40	60			500	33	1/2		95%	1½%
		9.50	10.50	60			500	33	5/8		95%	1½%
		11.40	12.60	60			500	33	3/4		95%	1½%
		13.30	14.70	60			500	33	7/8		95%	1½%
		15.20	16.80	60			500	33	1		95%	1½%
16R2 (Continued)		0.95	1.05	60			500	28	1/16		95%	2%
		1.90	2.10	60			500	28	1/8		95%	2%
		2.85	3.15	60			500	28	3/16		95%	2%
		3.80	4.20	60			500	28	1/4		95%	2%
		4.75	5.25	60			500	28	5/16		95%	2%
		5.70	6.30	60			500	28	3/8		95%	2%
		7.60	8.40	60			500	28	1/2		95%	2%
		9.50	10.50	60			500	28	5/8		95%	2%
		11.40	12.60	60			500	28	3/4		95%	2%
		13.30	14.70	60			500	28	7/8		95%	2%
		15.20	16.80	60			500	28	1		95%	2%

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type I 16R1 16R2 (Continued)		Color- 16R1- White. 16R2- Any, except gray or black.	(6)	Intended Use (suggested)- 16R1: For oil retention in installations where the felt is not compressed, for feeding low viscosity or light oil, and where unusual strength and hardness are required. Washer; bushings; wicks; ink rolls and pads; door bumpers; polishing blocks; wheels & pads; grommets; window channels; resilient mountings, anti-vibration and dampening pads; and parts where wear & resistance to abrasion are required; are typical uses. 16R2: For vibration mountings, oil and grease shields, and the same general purposes as 16R1, where a felt of slightly lower quality is satisfactory.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd		Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Wool Fiber Content	Ash Content Max.
Felt, Sheet, Wool, Pressed C-F-206b (Cont'd)		Min	Max		L | W						
Type I- Mechanical roll felts		(lbs.)		(min)		(psi)	(lb/2")	(nominal)			
16R3		1.90	2.10	60		400	22	1/8		90%	2½%
		2.85	3.15	60		400	22	3/16		90%	2½%
		3.80	4.19	60		400	22	1/4		90%	2½%
		4.75	5.24	60		400	22	5/16		90%	2½%
		5.70	6.29	60		400	22	3/8		90%	2½%
		[illegible].60	8.39	60		400	22	1/2		90%	2½%
		9.50	10.49	60		400	22	5/8		90%	2½%
		11.4[illegible]	12.59	60		400	22	3/4		90%	2½%
		13.30	14.69	60		400	22	7/8		90%	2½%
		15.20	16.79	60		400 (a)	22	1		90%	2½%
12R3X		0.712	0.788	60 or 72		200	-	1/16		75%	3%
		1.087	1.163	60 or 72		200		3/32		75%	3%
12R1 (Continued)		1.45	1.61	60 or 72		400	18	1/8		95%	2%
		2.17	2.41	60 or 72		400	18	3/16		95%	2%
		2.90	3.22	60 or 72		400	18	1/4		95%	2%
		3.62	4.02	60 or 72		400	18	5/16		95%	2%
		4.35	4.83	60 or 72		400	18	3/8		95%	2%
		5.80	6.44	60 or 72		400	18	1/2		95%	2%
		7.25	8.05	60 or 72		400	18	5/8		95%	2%
		8.70	9.66	60 or 72		400	18	3/4		95%	2%
		10.15	11.27	60 or 72		400	18	7/8		95%	2%
		11.60	12.88	60 or 72		400	18	1		95%	2%

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type I 16R3 12R3X 12R1 (Continued)		Color- 16R3- Gray. 12R3X- Gray or Black. 12R1- White.	(6) (a)Felt for ammunition of 1/16 and 3/32 in. thickness shall have a min. tensile strength of 125 psi.	Intended Use (suggested)- 16R3: For ammunition components. For aircraft applications; between rocker arm covers of engines, ring cowlings, radio cushion strips retaining and feeding oil under difficult conditions, washings & bushings. 12R3X: For anti-squeak strips and for lining when cemented to fiber board or metal panels. 12R1: For dust shields, wipers, grease retainer washers, wicks, vibration mountings, and uses where a resilient felt is required.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd		Width inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness inch	Water Absorption	Wool Fiber Content	Ash Content
Felt, Sheet, Wool, Pressed (Cont'd)		Min	Max		L W						
C-F-206b		(lbs.)		(min.)		(psi)	(lb/2")	(nominal)			
Type I- Mechanical-roll felts											
12R2		1.45	1.61	60		275	16	1/8		92%	2%
		2.17	2.41	60		275	16	3/16		92%	2%
		2.90	3.22	60		275	16	1/4		92%	2%
		3.62	4.02	60		275	16	5/16		92%	2%
		4.35	4.83	60		275	16	3/8		92%	2%
		5.80	6.44	60		275	16	1/2		92%	2%
		7.25	8.05	60		275	16	5/8		92%	2%
		8.70	9.66	60		275	16	3/4		92%	2%
		10.15	11.27	60		275	16	7/8		92%	2%
		11.60	12.88	60		275	16	1		92%	2%
12R3 (Continued)		1.45	1.61	72		250	12	1/8		80%	3%
		2.17	2.41	72		250	12	3/16		80%	3%
		2.90	3.22	72		250	12	1/4		80%	3%
		3.62	4.02	72		250	12	5/16		80%	3%
		4.35	4.83	72		250	12	3/8		80%	3%
		5.80	6.44	72		250	12	1/2		80%	3%
		7.25	8.05	72		250	12	5/8		80%	3%
		8.70	9.66	72		250	12	3/4		80%	3%
		10.15	11.27	72		250	12	7/8		80%	3%
		11.60	12.88	72		250	12	1		80%	3%

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type I 12R2 12R3 (Continued)		Color- 12R2- Gray. 12R3- Gray.	(6)	Intended Use (suggested)- 12R2 and 12R3: For dust shields, grease retainer washers, wicks, vibration mountings, and uses where a resilient felt is required.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Width Inch	Breaking Strength Min. (5100) L	Breaking Strength Min. (5100) W	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Wool Fiber Content	Ash Content Max.
Felt, Sheet, Wool, Pressed (Cont'd) C-F-206b		(lbs.)		(min.)			(psi)	(lbs/2")	(nominal)			
Type I- Mechanical-wool felts												
9R1		0.60	0.70	72			225	8	1/16		95%	2½%
		0.98	1.14						1/8			
9R2		1.47	1.71	72			200	6	3/16		92%	3%
		1.96	2.28						1/4			
9R3		2.45	2.85	72			100	3	5/16		85%	3½%
		2.94	3.42						3/8			
9R4		3.92	4.56	72			75	2	1/2		75%	3½%
		4.90	5.70						5/8			
9R5		5.88	6.84	72			75	2	3/4		55%	4%
		6.86	7.98						7/8			
		7.84	9.12						1			
		15.68	18.24						2			
8R5		0.81	0.99	72 or 36					1/8		45%	5%
(Continued)		1.62	1.98	72 or 36					1/4		45%	5%
		2.43	2.97	72 or 36					3/8		45%	5%
		3.24	3.96	72 or 36					1/2		45%	5%
		4.86	5.94	72 or 36					3/4		45%	5%
		6.48	7.92	72 or 36					1		45%	5%

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type I 9R1 9R2 9R3 9R4 9R5 8R5 (Continued)	9R1-9R5: The felt shall be mildew treated according to MIL-T-2312, except that complete penetration of the treatment shall not be required, and that the contractors shall certify the amount and kind of inhibitor which was applied.	Color- 9R1- White. 9R2- Gray. 9R3- Gray. 9R4- Gray. 9R5- Gray. 8R5- Gray.	(6)	Intended Use (suggested)- 9R1, 9R2, and 9R3: for grease and oil retention where the felt is confined and compressed in assembly. Also recommended for dust shields under less severe operating conditions, where 12R1, 12R2, and 12R3 are not required. 9R4 and 9R5: for sound deadening, chassis strips, spacers, dust shields, pedal pads, dash liners, and for mechanical purposes where abrasion and wear are not important factors. 8R5: for packing and padding when held in place between other materials. This grade should not be used for mechanical purposes.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd Min (lbs.)	Weight Oz/Sq Yd Max (lbs.)	Width inch	Breaking Strength Min. (5100) L	Breaking Strength Min. (5100) W	Tensile Strength Min. (5100) (psi)	Splitting Resistance (lb/2")	Thickness inch (nominal)	Water Absorption (Water Thickness Swell Max.)	Wool Fiber Content (min)	Ash Content Max.
Felt, Sheet, Wool, Pressed (Cont'd) C-F-206b Type II- Sheet felt	Fleece, pulled wool, wool noil, reprocessed wool, reused wool, or a combination thereof. Grades of wool: Class 1: Fine Spanish or its equivalent, composed of white wool, U.S. Standard 62's or finer: scoured, carbonized, dusted, neutralized, depitched, and depainted.								1/4			
12-S		2.80	3.20				400	18	3/8	20%	95%	1½%
1		4.20	4.80						1/2			
		5.60	6.40				300	16	5/8	25%	95%	1½%
2		7.05	7.95						3/4			
		8.50	9.50				300	12	7/8	30%	95%	2%
3		9.95	11.05						1			
		11.40	12.60				300	10	1-1/4	30%	95%	2½%
4		14.30	15.70						1-1/2			
		17.20	18.80						1-3/4			
		20.10	21.90						2			
		23.00	25.00						2-1/2			
		28.95	31.05						3			
		34.90	37.10									
16-S	Class 2: Spanish, or its equivalent, composed of white wools, U.S. Standard 58's or finer; scoured, carbonized, dusted, and neutralized.											
1		1.90	2.10				500	32	1/8	25%	95%	1½%
		2.85	3.15						3/16			
2		3.70	4.30				400	28	1/4	30%	95%	1½%
		5.60	6.40						3/8			
3		7.50	8.50				400	22	1/2	35%	95%	2%
		9.40	10.60						5/8			
4		11.30	12.70				300	20	3/4	35%	95%	2½%
(Continued)	Class 3: Mexican or its equivalent, composed of wool, 75% U.S. Standard 56's or finer, 25% U.S. Standard 48's or finer; scoured and dusted.	13.25	14.75						7/8			
		15.20	16.80						1			
		19.10	20.90						1-1/4			
		23.00	25.00						1-1/2			
		26.90	29.10						1-3/4			
		38.80	33.20						2			
		38.75	41.25						2-1/2			
		46.70	49.30						3			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type II 12-S 1 2 3 4 16-S 1 2 3 4 (Continued)		Color- 12-S 1- White, 2- White, 3- White, 4- White. 16-S 1- White, 2- White, 3- White, 4- White. Other colors are manufactured on order.	(6)	Intended Use (suggested)- 16S: For use as medium density polishing wheels and buffs for precious metal and plastic polishing, rough optical polishing, metal wiping, drum beaters; also drilled wicks, bearing seals, shoe rolls (shank), fluid transfer rolls, oil and fluid wicks, grease and oil retaining washers, ink rollers, vibration and shock mountings, bumpers, plugs, glass channels. 12-S: For use as soft density polishing wheels and buffs for polishing plastic, polishing and wiping brass; also for piano wedge, surgical pads, punched wicks, dampeners, absorbent pads, oil and fluid retainers, fluid transfer rolls, bearing seals, washers, wicks, shim and spacer pads, shoe insoles, dust shields, anti-vibration pad.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd		Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Wool Fiber Content	Ash Content Max.
Felt, Sheet, Wool Pressed (Cont'd) C-F-206b		Min (lbs.)	Max		L | W	(psi)	(lb/2")	(nominal)	(Water Thickness Swell Max.)	(min)	
Type II- Sheet felt	Class 4: Coarse Maxitar, or its equivalent, composed of wool, 60% U.S. Standard 50's or finer, and 40% U.S. Standard 44's or finer.										
20-S											
1		2.20	2.80			600	44	1/8	30%	95%	1½%
		3.40	4.10					3/16			
2		4.60	5.40			500	40	1/4	40%	95%	1½%
		7.00	8.00					3/8			
3		9.40	10.60			400	36	1/2	50%	95%	2%
		11.80	13.20					5/8			
4		14.20	15.80			300	32	3/4	50%	95%	2½%
		16.60	18.40					7/8			
		19.00	21.00					1			
		23.90	26.10					1-1/4			
		28.80	31.20					1-1/2			
		33.70	36.30					1-3/4			
		38.60	41.40					2			
		48.55	51.45					2-1/2			
		58.50	60.50					3			
26-S											
1		2.85	3.65			600	48	1/8	40%	95%	1½%
		4.40	5.40					3/16			
2		5.90	7.10			500	46	1/4	50%	95%	1½%
		8.95	10.55					3/8			
3		12.00	14.00			400	40	1/2	60%	95%	2%
		15.15	17.35					5/8			
4		18.30	20.70			400	30	3/4	60%	95%	2½%
(Continued)		21.45	24.05					7/8			
		24.60	27.40					1			
		31.00	34.00					1-1/4			
		37.40	40.60					1-1/2			
		43.80	47.20					1-3/4			
		50.20	53.80					2			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type II 20-S 1 2 3 4 26-S 1 2 3 4 (Continued)		Color- 20-S 1-White, 2-White, 3- White, 4- White. 26-S 1- White, 2- White, 3- White, 4- White. Other colors manufactured on order.	(6)	Intended Use (suggested)- 20-S: For use as medium-hard density polishing wheels and buffs for polishing lenses, mirrors, and glass, marble and granite; also for fluid transfer rolls, ink rolls, (securing), furniture rubbing, rough metal polishing, metal wiping, drilled wicks, bearing seal washers, stamp pads, cushioning under sand paper. 26-S: For use as hard density polishing wheels for glass sheet, glassware, ophthalmic lense polishing, metal and metallographic polishing, wood polishing and furniture rubbing; also for block cutters, print rolls, cash carrier heads, points for making pens, casters, boot and shoe soles, artificial limbs.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd		Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Wool Fiber Content	Ash Content Max.
Felt, Sheet, Wool, Pressed (Cont'd) C-F-206b		Min (lbs.)	Max		L | W	(psi)	(lb/2")	(nominal)	(Water Thickness Swell Max.)	(min)	
Type II- Sheet felt 32-S											
1		3.50	4.50			600	50	1/8	50%	95%	1½%
		5.25	6.75					3/16			
2		7.00	9.00			500	48	1/4	60%	95%	1½%
		10.90	13.10					3/8			
3		14.80	17.20			400	46	1/2	70%	95%	2%
		18.70	21.30					5/8			
4		22.60	25.40			400	40	3/4	70%	95%	2½%
		26.50	29.50					7/8			
		30.40	33.60					1			
		38.30	41.70					1-1/4			
		46.20	49.80					1-1/2			
		54.10	57.90					1-3/4			
		62.00	66.00					2			
Type III- Roll-felt (apparel & decorative)		(oz)		(min)							Wool Grade Min.
11A2	Fleece, pulled wool, wool noil, reprocessed wool, reused wool or a combination thereof.	2.92	3.15	80	-			0.030		20%	48's
11A1		2.92	3.15	80	-			0.030		20%	48's
10A2		5.75	6.25	72	8			0.065		45%	48's
10A1 (Continued)		5.75	6.25	72	10			0.065		35%	48's

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type II 32-S 1 2 3 4 Type III 11A2 11A1 10A2 10A1 (Continued)		Color- 32-S 1- White, 2- White, 3- White, 4- White. Other colors manufactured on order. 11A2- Gray. 11A1- White. 10A2- Gray. 10A1- White.	(6)	Intended Use (suggested)- 32-S: For use as extra-hard density polishing wheels and buffs in dental, jewelry, glass, and lapidary polishing; also hard washers, bumpers, and casters. 11A1 and 11A2: For use in fronts of coats to give required fullness and drape to outer fabrics. 10A1 and 10A2: For use as a lining material in outer wear garments. Also as a lining on inside of shoe tongues, generally white in color. Backing for household objects to prevent scratching or marking furniture.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd		Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Wool Fiber Content	Wool Grade Min.
		Min	Max		L | W						
Felt, Sheet, Wool, Pressed (Cont'd) C-F-206b				(min)				(nominal)			
Type III- Roll-felt (apparel & decorative)											
9A2		6.75	7.25	72	10			0.075		45%	48's
8A1		7.50	8.50	72	30			0.040		95%	58's
7A1		9.25	10.75	60	45			0.040		95%	62's
6A1		11.00	13.00	72	30			0.063		95%	62's
		(lbs.)									
5A1		0.94	1.06	72				0.125		35%	56's
		1.88	2.13	72				0.250		35%	56's
		2.75	3.25	72				0.375		35%	56's
		3.75	4.25	72				0.500		35%	56's
4A1		0.50	0.56	36	20			0.063		50%	56's
		1.00	1.12	72	45			0.125		50%	56's
		2.875	3.125		175			0.375		50%	56's
3A1		6.50	7.80	60x40 sheets				0.250		95%	56's

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type III 9A2 8A1 7A1 6A1 5A1 4A1 3A1		Color- 9A2- Gray. 8A1- White & all colors. 7A1- White & all colors. 6A1- White & all colors. 5A1- White. 4A1- White. 3A1- Gray.	(6)	Intended Use (suggested)- 9A2: For use as lining material in outer wear garments. 8A1: For use as undercollar cloth and in face mask. 7A1: For use in garment decoration, and as background for embroidered designed hat bodies. 6A1: For use in garment decoration and in military insignia; for face masks and auto flags. 5A1: For use as padding on orthopedic and truss appliances, and as athletic equipment padding. 4A1: Can be pulled down in layers to graduated thicknesses needed for medical requirements. 3A1: For use in footwear, boots, etc., as lining or inserts.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	
		Min | Max		L | W					
Felt, Cattlehair or Wool: Mildew Resistant, and Moisture Resistant, Treated MIL-F-2312C, Amd. 1 Type I- Mildew resistant Type II- Moisture resistant Type III- Mildew resistant and moisture resistant	Felts shall be in accordance with those of the applicable felt spec. C-F-202 or C-F-206, as specified.								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
MIL-F-2312C Type I Type II Type III	(5) Type I: Unless otherwise specified, felt shall be treated with 2,2' methylenebis-(4-chlorophenol) or salicylanilide. Felt shall be well penetrated by inhibiting agent, and there shall be no noticeable crystallization of the inhibitor on the felt surface. Finished felt shall contain 1-2% of 2,2' methylenebis-(4-chlorophenol) or 0.5-1% of salicylanilide. Type II: Unless otherwise specified, felt shall be treated with a wax or metallic-salt wax compound or emulsion. The treated felt shall show no more than a 50% increase in weight. Type III: Felt shall be treated with a combination of Type I and Type II treatments. Types II and III treated felt shall be allowed to reach equilibrium prior to testing for moisture resistance.	Color- When undyed felt is specified, color of the treated felt may deviate from the natural state to that degree imposed by the color of the treating agent used. Color of dyed felt, prior to the application of the finish shall, unless specified otherwise, match the standard sample. When dyed felt is specified, the color of the treated felt shall be that resulting from the combination of the base color and the color imparted by the finishing compound.	(7) A plus tolerance of 7% in weight shall be allowed for the Types I, II, and III treated felt based on the max. specified for the untreated felt.	

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Wool Content Min.
Yarn, Wool MIL-Y-16654C		Min | Max		L | W					
Type I- White or dyed	Fleece wool, pulled wool, or any combination thereof not lower in grade than 56's US Standard. Use of noils or laps is prohibited. Yarn shall be spun on worsted system from combed top on either the Bradford, French, or American system. Yarn shall be not finer than 8's 4-ply or coarser than 7's 4-ply. Twist shall be soft, with 5 (±5%) turns per inch in the single yarn & 2 (±5%) turns per inch in ply yarns.								95%
Type II- Natural									95%

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
MIL-Y-16654C		Color- Type I: (1)- Standard sample available (3). When white is specified, the yarn shall be bleached using hydrogen peroxide. Unless otherwise specified, white yarn shall not be treated with an optical bleach. In the event, however, than an optical bleach is specified, or permitted, it shall be so selected that the finished yarn shows no discoloration (4660). Type II: Shall be natural, undyed, unbleached, and not chemically processed. Colorfastness- Type I: Standard sample available (4660-4614).		Intended Use- Type I: For hand weaving and textile work in occupational therapy. Type II: For lubricating purposes.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd		Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	
		Min	Max		L | W					
Yarn, Cotton MIL-Y-16698B	Cotton. Yarn shall be carpet warp 8/4 ply ± 3%, 6-7½ turns per in. of "S" twist in the ply.				(4100) (Plied) 7					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
MIL-Y-16698B		Color- Shall be natural, bleached white, or color, as specified, and shall conform to the approved shade standard (3). When white is specified, the yarn shall be bleached using a peroxide type bleach. No tinting is permissible, and the use of optical bleaches is not permitted. When natural is specified, the yarn shall be a natural shade (9). Colorfastness- Standard sample available (4610).		Intended Use- For hand weaving in occupational therapy.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd Min	Weight Oz/Sq Yd Max	Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Compressibility Min.
Felt, Sheet, Wool, Compound Impregnated, Chock Padding					L | W					
		(lbs.)			(4.4.7) (lbs/2")			(nominal)	Increase (max.)	(a)
MIL-F-17057A (WEP)	Carrier shall be wool felt sheet conforming to Type I, classification 8R5 of C-F-206.	0.80	1.40	(1)	15			1/16	50%	50%
		1.45	2.20	(1)	30			1/8	50%	45%
		2.25	2.95	(1)	45			3/16	50%	40%
		3.00	3.80	(1)	60			1/4	50%	35%

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
MIL-F-17057A	Carrier shall be impregnated with a nondrying, nonoxidizing, water resistant, fungus resistant, anticorrosive, chromated compound with a min. softening point of 165°F (74°C). The fungus resistant agent (which may be impregnated separately) shall be copper-8-quinolinolate, applied in solubilized or emulsion form, to provide a concentration of 0.15±.05% copper in the dry treated materials. The impregnated felt sheet shall be coated on 1 side only with adhesive of the solvent-activated or of the pressure sensitive type. The adhesive shall provide the required bond without the use of auxiliary stapling. Impregnating compound to carrier weight ratio shall be not less than 0.40. Impregnated felt sheet shall show no evidence of extrusion of impregnating compound (4.4.15).		(a)After acc. aging test. Impregnated felt sheet shall not become hardened or impaired in a manner that would affect its serviceability after acc. aging (4.4.10). Corrosion protection: Impregnated felt sheet shall allow no corrosion of the metallic surfaces with which it is in contact (4.4.12). Impregnated felt sheet shall remain pliable without breaking or delaminating (4.4.13). Impregnated felt sheet shall show no visible evidence of fungus growth (4.4.14). Impregnated felt sheet shall have no detrimental effect on painted or lacquered surfaces (4.4.16). Adhesive bond between impregnated felt sheet and surface to which it is applied shall be greater than the cohesive strength of the impregnated felt sheet (4.4.17).	Intended Use- To be applied to chock surfaces in such a way that, interposed between the chock and the part to be supported, it affords padding and anticorrosive protection.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	
Padding and Cover Set, Asbestos, Flatwork Ironer Roll MIL-P-43219		Min | Max		L | W					
Padding	A felted, woven, or knitted material of min. of 75% asbestos. Balance shall be cotton, a synthetic, or a mixture of cotton and a synthetic.		Sufficient for 1 wrap around the roll.				Such a thickness that when binder, padding, & cover are installed on roll, caliper of entire assembly shall meet max. limits recommended by manufacturer of flatwork ironer.		
Binder	Uncoated asbestos. See above for fiber content.			71 123					
Liner	Woven asbestos cloth. See above for fiber content.		Sufficient to wrap once around the roll.						
Cover	Woven asbestos cloth. Min. 80% asbestos. Balance as above. Coated or impregnated with thermosetting resin. Shall not stain or mar appearance of articles processed through ironer.			190 152 (initial) 50% 50% (after heat aging)					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
MIL-P-43219				Intended Use- For covering 2, 4, 6, and 8 roll flatwork ironers.

NON-WOVEN TEXTILE MATERIALS

NOMENCLATURE	Fiber	Weight Oz/Sq Yd		Width Inch	Breaking Strength Min. (5100)		Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Compression Deformation	Resilience
		Min	Max		L	W						
Pad, Lithographic Plate Solution MIL-P-43296 (OL)	Cotton. Use of resins or other binding material is prohibited.	Ave: 23 gr.		Pad: 4x3-3/4 ±1/4						30 sec. max. for complete submersion of the pad.		
Felt, Sheet, Nylon, Non-Woven (Needle Punched) MIL-F-43310												
Type I	Nylon. Use of regenerated or reprocessed nylon is prohibited. Melting point: 250°C. ±6°C.	13.0	-	(min) 54	10	10			0.130		(max.) 32%	70%
Type II		18.0	-	54	10	10			0.180		32%	70%
Type III		29.0	-	54	40	40			0.310		32%	70%

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
MIL-P-43296	(5) When sample is tested for dextrin or starch, no blue or violet color shall develop (4.2.2). pH: 5.0 - 8.0 (2811).			Intended Use- As applicators or wipes for lithographic, off-set, and/or duplicating plates.
MIL-F-43310 Type I Type II Type III	The staple or felt shall be heat treated. Finished felt shall show a dimensional change of not more than 3% in either length or width (4.4.4).	Color- Shall be natural.	Finished felt shall lose not more than 50% of its breaking strength after acc. aging (4.4.3).	Intended Use- As padding for laundry presses.

REFERENCES

NON-WOVEN TEXTILE MATERIALS

Textile Test Methods - CCC-T-191b

Method	Title
	Chemical
2811	Acidity (pH), Potentiometric method.
	Mechanical
4100	Strength and elongation, breaking; yarn; single strand.
4104	Strength, breaking yarn and thread skein.
5100	Strength and elongation, breaking, of woven cloth, grab method.
	Air Permeability and Water Resistance
5508	Dry cleaning solvent resistance of water-resistant finish, tumble jar.
	Colorfastness
4610	Colorfastness to laundering; cotton and linen yarn, thread and cordage.
4614	Colorfastness to laundering; wool, silk, and rayon yarn, thread, and cordage; Launder-Ometer method.
4660	Colorfastness to light; yarn, thread, cordage; accelerated method (Fade-Ometer).
5630	Water, cold.
5651	Crocking of cloth.

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13. ABSTRACT

Specification requirements for military fabrics and related military textile materials such as felts and cordage are summarized in tables which give details for yarn, texture, finish and key performance parameters. Included are finishing, after-treatment specifications and test methods.

This report brings up-to-date and adds to the data contained in Textile Series Report No. 102 dated December 1957 (Revised).

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14. KEY WORDS	LINK A ROLE	LINK A WT	LINK B ROLE	LINK B WT	LINK C ROLE	LINK C WT
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Parameters	8					
Test methods	8					
Texture	8					
Finishes and finishing	8					
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AD 658048

SUPPLEMENT

SUMMARY OF SPECIFICATION REQUIREMENTS

FOR MILITARY FABRICS

AD-658048, Technical Report 68-9-CM
TS-102 (Revised), dated July 1967

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Padding, Cotton, Stitched Roving	CCC-P-86c	Jan. 1963	294
Rag, Wiping, Cotton	DDD-R-30b	Dec. 1965	292
Waste, Matted Yarns, (Cotton, Colored)	DDD-W-101b	Apr. 1961	295
Yarn, Cotton	MIL-Y-16698B	Dec. 1962	309
Yarn, Wool	MIL-Y-16654C	Mar. 1963	308