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TECHNICAL REPORT
NATICK/TR-84/044

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STUDY OF THE CAPABILITY OF THE UNITED STATES TEXTILE AND APPAREL INDUSTRIES TO SUPPORT NATIONAL DEFENSE

VOLUME 2
Appendix

BY
TONY D. BROOKS
AND
DOUGLAS C. ROGERS

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)
The objective of this project is to determine the national defense requirements for textiles and clothing and the impact these requirements will have on the United States industrial capabilities in a peacetime or wartime environment. A further objective is to define the role Natick R&D Center should take to meet research and development requirements of the military services which are not expected to be met by the United States textile/apparel industry.

Volume 1 of the report indicates that, in general, sufficient capability exists

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in both the textile and apparel industries to meet the mobilization requirements of the three unclassified scenarios in the report. However, several weaknesses were identified that could become critical, especially under full mobilization conditions. These weaknesses are:

- Sole source proprietary fibers;
- Very heavy duck fabrics used in tents, tarpaulins and vehicle upholstery;
- Foreign sole source chemicals related to fire, water, weather, and mildew resistance (FWWMR); infrared reflectance (IR); and colorfastness;
- Foreign source sewing needles.

Also, the report recommends that all DoD clothing and individual equipment research and development activities be consolidated at the Natick R&D Center.

Volume 2, Appendix, provides documentation information.

PREFACE

This study illustrates the variables involved in analyzing military textile and apparel requirements for mobilization. The study addresses the multiple issues of procurement, planning, sourcing, logistical constraints, industrial base response, and research and development in the context of the strategic nature of textile and apparel. This is not a technical document to describe any particular process of either the textile or apparel industry, though we are significantly indebted to numerous individuals, agencies, and organizations in both industrial and government areas of technical assistance.

Kurt Salmon Associates, Inc. (KSA) received a contract award from the Directorate for Procurement, Army Natick Research and Development Laboratories (now U. S. Army Natick Research and Development Center) to perform the Study of the Capability of the United States Textile and Apparel Industries to meet Armed Forces Requirements in Support of National Defense (see volume 1 in this series, NATICK/TR-84/043). The contract approval for this study was awarded 30 September, 1981 with a contract number DAAK60-81-C-0153. The project officer was Laurance Coffin.

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LIST OF STUDY END-ITEMS

SPECIFICATION NUMBER	ITEM DESCRIPTION
MIL-A 41829C	APRON, UTILITY, RUBBER COATED FABRIC (GEN. USE)
MIL-B-1851F	BAG, HELMET
MIL-B-21154B(MC)	BELTS, MEN: CTN WEBBING; WHITE
MIL-B-31055	BAG, WATERPROOF, CLOTHING
MIL-B-32590	BAG, PERSONAL EFFECTS
MIL-B-43[illegible]F	BAG, FLYERS HELMET
MIL-B-43[illegible]A	BODY ARMOR, FRAGMENTATION PROTECTIVE, GROIN
MIL-B-43[illegible]A	BELT, INDIVIDUAL EQUIPMENT, LC-2
MIL-B-44[illegible]3	BODY ARMOR, FRAGMENTATION PROTECTIVE VEST, GROUND TROOPS
MIL-B-62[illegible]	BAG, DUFFEL
MIL-B-8728[illegible]A	BERETS, WOMENS, FUR FELT
MIL-B-833F	BELT, TROUSERS, CTN WEBBING, WITH CLIP
MIL-B-844L	BLANKETS, BED, WOOL, SHRINK RESISTANT & MOTH-PROOFED
MIL-C-10522F	CASE, PARACHUTISTS INDIVIDUAL WEAPONS, M-1 50, ADJUSTABLE
MIL-C-14810E	COVERALLS, EXPLOSIVES HANDLERS
MIL-C-14[illegible]A	COAT, FOOD HANDLERS (STEWARD)
MIL-C-16472F	CAP, KNIT (WATCH)
MIL-C-17614E(HU)	CAP, GARRISON, MENS
MIL-C-17844C(MC)	CARRIER, PISTOL HOLSTER; CTN DUCK, WHITE; MP
MIL-C-17885C(MC)	COAT, SHOOTERS: CTN, SATEEN, GREEN
MIL-C-19115(GL)	CAP, COMBAT, WOODLAND CAMOUFLAGE PTRN.
MIL-C-21085C(MC)	COATS, WOMENS WOOL, POLY/WOOL
MIL-C-21181C(MC)	CAP, GARRISON, MENS: WOOL, SERGE, GREEN
MIL-C-21704C(SA)	CAP, COLD WEATHER, REMOVABLE
MIL-C-2181J	COVERALLS, TOXICOLOGICAL AGENTS PROT.; M-3
MIL-C-2202F	COVERALLS, MENS, CTN, SATEEN
MIL-C-29136(SA)	CAP, FOOD HANDLERS
MIL-C-29364A(MC)	CAP, UTIL. CAMOUFLAGE
MIL-C-29373A(MC)	CAP, GARRISON, WOMENS
MIL-C-29380A(MC)	COAT, MENS, ALL-WEATHER, DRESS
MIL-C-29381(MC)	COAT, WOMENS, ALL-WEATHER, DRESS
MIL-C-3771E(MC)	COAT, MENS, WOOL, SERGE, GREEN (WITH BELT)
MIL-C-38488A	COVERALL, FLYING, ANTI-EXPOSURE, QUICK DONNING CWU-16/P
MIL-C-40131B	COVER, WATER CANTEEN, INSULATED, CTN DUCK
MIL-C-40142E(GL)	COATS, WOMENS, WOOL AND POLYESTER /WOOL
MIL-C-41835B(GL)	COVERALL, MECHANICS, COLD WEATHER
MIL-C-43159F	COATS, HOT WEATHER, MENS, COMBAT
MIL-C-43315E(GL)	COATS, MENS, POLY/WOOL, TROPICAL & WOOL, ARMY GREEN
MIL-C-43419E(GL)	CAP, GARRISON, POLY/WOOL, TROPICAL, ARMY GREEN 344
MIL-C-43455E	COAT, COLD WEATHER, FIELD
MIL-C-43507A(GL)	COAT, WOMENS, WOOL, FIELD
MIL-C-43544(GL)	CARRIER, BODY ARMOR, AIRCREWMAN, SMALL ARMS PROTECTIVE
MIL-C-43549A	CAP, COLD WEATHER, INSULATING, HELMET LINER
MIL-C-43742B	COVER, WATER CANTEEN, LC-2
MIL-C-43827B	CASE, SMALL ARMS AMMUNITION, 30-ROUND MAGAZINE
MIL-C-43830A	COVER, FIELD PACK, CARLG., LC 1
MIL-C-43972A(GL)	COAT, ALL WEATHER, WOMENS, BLACK WITH REMOVABLE LINER
MIL-C-44001	COVER, HELMET, CHEMICAL PROTECTIVE
MIL-C-44030(GL)	COAT, ALL WEATHER, MENS, BLACK, WITH REMOVABLE LINER
MIL-C-44046(GL)	COAT, COMBAT, WOODLAND CAMOUFLAGE PATTERN

SPECIFICATION NUMBER	ITEM DESCRIPTION
MIL-C-82185A(MC)	COAT, MENS, POLY/WOOL, GREEN (WITH BELT)
MIL-C-83141A	COVERALLS, FLYERS, MENS, SUMMER, FIRE RESISTANT
MIL-C-83155	COVERALLS, FLYERS, ANTI EXPOSURE CWU-21/P
MIL-C-87071(HU)	CAP, UTILITY, BLUE
MIL-D-25390E	DRAWERS, EXTREME COLD WEATHER
MIL-D-2525D(MC)	DRAWERS, MENS, CTN, ANKLE LENGTH
MIL-D-40099F	DRAWERS, MENS, BOXER STYLE
MIL-D-43281B	DRAWERS, COLD WEATHER
MIL-D-43783C	DRAWERS, MENS (BRIEF TYPE)
MIL-F-12224F	FOOTWEAR COVERS, TOXICOLOGICAL AGENTS PROTECTIVE
MIL-F-18450B(MC)	FLY, TENT: FIRE, WATER, WEATHER, AND MILDEW RESISTANT
MIL-F-43832B	FIELD PACK, COMBAT, NYLON, LARGE, LC-1
MIL-F-43833B	FIELD PACK, COMBAT, NYLON, MEDIUM, LC-1
MIL-G-17602D(SA)	GLOVES, LEATHER, BLACK (WOOL LINED)
MIL-G-21893C(HU)	GLOVES, CLOTH, NYL, KNITTED, (DRESS)
MIL-G-3656E	GLOVES, MENS, CLOTH, CTN, KNITTED, LTWT.
MIL-G-41817C	GLOVES, CLOTH, MENS (DRESS), WHITE
MIL-G-43755H	GLOVES, LEATHER, LINED, BLACK, WOMENS
MIL-G-43976A	GLOVE SET, CHEMICAL PROT.
MIL-G-81188B	GLOVES, FLYERS, SUMMER, TYPE CS/FAP-2
MIL-G-835F	GLOVE INSERTS, WOOL-NYL, M 1949
MIL-H-12225F	HOOD, GAS MASK, TOXICOLOGICAL AGENTS PROT. M-3
MIL-H-17024E(SA)	HOOD, EXTREME COLD WEATHER, INFLAMMABLE (SMOKE)
MIL-H-19448B	HAT, SERVICE: WITH CHIN STRAP
MIL-H-3364D	HELMET, SUN
MIL-H-3697C	HARNESS, MENS, SLED, SINGLE TRACE TYPE
MIL-H-41802D	HEADBAND AND MEDIEVAL, GROUND TROOPS PARA. HELMET LINER
MIL-H-43577C	HATS, SUN, HOT WEATHER
MIL-H-43595A	HAMMOCK, JUNGLE, NYLON, M-1966
MIL-H-43679	HOOD, SLEEPING BAG
MIL-H-87041(SA)	HAT, SERVICE (WHITE)
MIL-I-43745A	INSECT NET, SUN, HOT WEATHER
MIL-I-43903	INSERT, SMALL ARMS PROT. BODY ARMOR, AIRCREWMAN
MIL-J-21708E	JACKET, COLD WEATHER, REMOVABLE
MIL-J-43923A(GL)	JACKET, FLYERS, LIGHTWEIGHT WRISTS AND WAIST
MIL-J-43924B(GL)	JACKET COLD WEATHER, (HIGH TEMP RESIS.)
MIL-J-43982A(GL)	JACKET, WOMENS, GABARDINE, ARMY GREEN 344
MIL-J-43990(GL)	JACKET, WOMENS, SUMMER, WARP KNIT (SHORT SLEEVE)
MIL-J-44020(GL)	JACKET, WOMENS, SUMMER, WARP KNIT (LONG SLEEVE)
MIL-J-82295B(SA)	JACKET, UTILITY, DARK BLUE
MIL-J-82299B(HU)	JACKET, EXTREME COLD WEATHER, INFLAMMABLE
MIL-J-83828B(AF)	JACKET, FLYERS, MENS, SUMMER, FIRE RESISTANT
MIL-J-83388F	JACKET, FLYER, COLD WEATHER
MIL-J-87035A(HU)	JUMPER, MENS, (BLUE, DRESS)
MIL-J-87037A(HU)	JUMPER, MENS, WHITE
MIL-K-41835C	KIT BAG FLYER'S CTN DUCK SAGE GREEN
MIL-L-41800F	LINER, CRD, TROOPS-PARACHUTISTS HELMET
MIL-L-43335C	LINER, WET WEATHER, PONCHO
MIL-L-43446C	LINER, EXTREME, COLD WEATHER, PARKA
MIL-L-43498B	LINER, COLD WEATHER, FIELD
MIL-L-43538B	LINER, COLD WEATHER COAT

SPECIFICATION NUMBER	ITEM DESCRIPTION
MIL-L-43426	LINER, SNOW CAMOUFLAGE TROUSERS: WHITE, ARCTIC, M-65
MIL-M-11199F	MITTEN, HEAT PROTECTIVE
MIL-M-18051F	MATTRESSES AND MATTRESS TICKS, DEATH, S/M CELL. FLAMEX
MIL-M-2418F	MITTEN SHELLS, SNOW CAMOUFLAGE, COTTON, WHITE, TWO FING.
MIL-M-43240	MASK, EXTREME COLD WEATHER (OLIVE GREEN 207)
MIL-M-43945	MASK, EXTREME COLD WEATHER
MIL-M-43948	MATTRESS, PNEUMATIC, (INSULATED)
MIL-M-8090	MITTEN INSERTS, TRIGGER FINGER, OG-208
MIL-M-810G	MITTEN SHELLS COLD WEATHER (TRIGGER FINGER M-1965)
MIL-M-834J	MITTEN SET, EXTREME COLD WEATHER
MIL-N-28935A	NET, CARGO, AERIAL DELIVERY
MIL-N-29567A	NECK TAB, WOMEN'S SHIRT: POLYESTER/WOOL
MIL-N-4180C	NECKTIES, MEN'S, FOUR-IN-HAND
MIL-N-43181A	NET, MULTIPURPOSE
MIL-N-43741(GL)	NECKERCHIEF, MAN'S, COTTON, KNITTED
MIL-N-87042A(SA)	NECKERCHIEF (ACETATE BLACK)
MIL-O-22776C	OVERALLS, WET WEATHER
MIL-O-2414F(MU)	OVERCOAT, MAN'S, ENLISTED
MIL-O-82250C(SA)	OVERCOAT, MAN'S, (OFFICER'S TYPE)
MIL-P-10809E	PARKA, SNOW CAMOUFLAGE
MIL-P-21593C(MC)	PANEL MARKERS: RANGE, FLAME, AND DEMOLI. POINT, MIL...
MIL-P-22295C(MC)	PROTECTOR, TROUSERS, PISTOL HOLDER
MIL-P-4300C	PACK AND HARNESS ASSEMBLY, PARACHUTIST'S WEAPONS...
MIL-P-43496C	PARKA, EXTREME COLD WEATHER
MIL-P-43760D	PONCHO, WET WEATHER
MIL-P-43907A	PARKA AND TROUSERS, WET WEATHER
MIL-P-4279J	PARKA, EXTREME COLD WEATHER, TYPE M-38
MIL-P-82277C	PARKA, WET WEATHER
MIL-R-43323B	RIFLE BUTT POCKET AND STRAP ASSEMBLY
MIL-R-82290C(MU)	RAINCOAT, MAN'S (ENLISTED)
MIL-S-10858G	SHIRT, COLD WEATHER, FIELD, WOOL/NYLON, OLIVE GREEN 108
MIL-S-10926F	SUSPENDERS, TROUSERS, M-1950
MIL-S-12549G	SOCKS, MEN'S, NYLON AND COTTON, RIBBED, STRETCH TYPE
MIL-S-1598F	SLIDES, BAG AND CASE CARRYING
MIL-S-17848A(MC)	SCARF, NECKWEAR; WOOL, WOMAN'S
MIL-S-19984C(MC)	SHIRT, MAN'S: KHAKI; WITH QUARTER LENGTH SLEEVE
MIL-S-21087E(MC)	SKIRTS, WOMEN'S, WOOL
MIL-S-28997A(MC)	SKIRT, WOMAN'S, POLY/WOOL, GREEN
MIL-S-29149A(SA)	SHIRT, MAN'S, POLYESTER AND RAYON
MIL-S-29364A(MC)	SLACKS, WOMEN'S
MIL-S-29368A(MC)	SHIRTS, WOMEN'S, POLY/CTN, LONG AND SHORT SLEEVES
MIL-S-40128E(GL)	SKIRTS, WOMEN'S, WOOL AND POLYESTER/WOOL
MIL-S-405F	SOCKS, MEN'S, WINTER (WOOL AND COTTON)
MIL-S-43013C	SLING, UNIVERSAL, INDIVIDUAL LOAD CARRYING
MIL-S-43176B	SCREEN, LATRINE, FIRE, WATER, WEATHER & MILDEW RESIS.
MIL-S-43317B	SCARF, NECKWEAR, WOMAN'S, ACRILIC
MIL-S-43357C	SHIRT, SLEEPING, HEAT RETENTIVE & NOISE RESISTANT
MIL-S-43498B(GL)	SKIRT, WOMAN'S, WOOL, FIELD
MIL-S-43502A	SHIRT, WOMAN'S, WOOL, FIELD
MIL-S-43505C(GL)	SHIRT, WOMAN'S, POLYESTER/COTTON
MIL-S-43524B	SLACKS, UTILITY; WOMEN'S, WOOL, FIELD
MIL-S-43828	STRAP, WEBBING, CARGO TIE DOWN, LIGHTWEIGHT (ACRI) FRAME
MIL-S-43829A	SUSPENDERS, INDIVIDUAL EQUIPMENT BELT, LC-1

SPECIFICATION NUMBER	ITEM DESCRIPTION
MIL-S-43835B	STRAPS, WAIST AND SHOULDER, PACK FRAME AND FIELD
MIL-S-43841A	STRAPS, CHIN; GROUND TROOPS' HELMET, STEEL, M-1
MIL-S-43924B	SUIT, CHEMICAL PROTECTIVE
MIL-S-43851(GL)	SLACKS, WOMAN'S, GABARDINE, ARMY GREEN 344
MIL-S-43936(GL)	SKIRT, WOMAN'S, SUMMER, WOOL KNIT
MIL-S-44016	SLEEPING BAG, INTERMEDIATE COLD, SYNTHETIC FILLED
MIL-S-44041(G)	SHIRT, MAN'S, SHORT SLEEVE, POLYESTER/COTTON, ARMY GREEN
MIL-S-48J	SOCKS, MEN'S, WOOL, CUSHION SOLE, STRETCH TYPE
MIL-S-87016(SA)	SHIRT, MAN'S, POLYESTER/COTTON, SHORT SLEEVE
MIL-S-87027	SHIRT, MEN'S, POLYESTER/COTTON
MIL-T-10009F	TENT, KITCHEN, FLYROOF, M-1948
MIL-T-10035H	TENT, HEXAGONAL, LIGHTWEIGHT, M-1950
MIL-T-10069F	TENT, MAINTENANCE SHELTER, FIRE, WATER
MIL-T-10148H	TENT, FRAME-TYPE, INSULATED, SECTIONAL, WITH FLOOR
MIL-T-1110E	TENT, ASSEMBLY, M-1942
MIL-T-1111E	TENT, COMMAND POST, M-1945, FIRE, WATER, W/M RESISTANT
MIL-T-12354D	TENT, ARCTIC, 10 MAN
MIL-T-12919E	TENT, LINER, GENERAL PURPOSE, MEDIUM
MIL-T-14038H	TENT, GENERAL PURPOSE, LARGE
MIL-T-14054F	TENT, LINER, GENERAL PURPOSE, LARGE, FIRE, WATER AND MILDEW RESISTANT
MIL-T-1712N	TENT, GENERAL PURPOSE, MEDIUM
MIL-T-1870A(GL)	TROUSERS, COLD WEATHER; MEN'S, FIELD, WOOL, M-1951
MIL-T-1926F	TENT, MOUNTAIN, TWO-MAN, COMPLETE
MIL-T-21704D(SA)	TROUSERS, COLD WEATHER, REMOVABLE
MIL-T-21705D(SA)	TROUSERS, EXTREME COLD WEATHER, REMOVABLE
MIL-T-29349(MC)	TROUSERS, MEN'S: WOOL AND POLYESTER/WOOL
MIL-T-41610F	TENT, GENERAL PURPOSE, SMALL
MIL-T-41812F	TENT LINER SECTIONS, FRAME-TYPE MAINTENANCE, MEDIUM
MIL-T-41813D	TENT SECTIONS, FRAME TYPE, MAINTENANCE, MEDIUM
MIL-T-41834F	TROUSERS, MEN'S, POLYESTER/COTTON
MIL-T-43217F	TROUSERS, HOT WEATHER, MEN'S, COMBAT
MIL-T-43333B	TENT LINER, GENERAL PURPOSE, SMALL AND ARCTIC, 10 MAN
MIL-T-43472D	TENT SECTIONS, FRAME TYPE, EXPANDABLE
MIL-T-43477D	TROUSERS, COLD WEATHER, FIELD, NYLON AND COTTON
MIL-T-43654D	TROUSERS, SNOW CAMOUFLAGE, WHITE, ARCTIC
MIL-T-43722C	TROUSERS, UTILITY, (DURABLE PRESS)
MIL-T-43944(GL)	TUNIC, WOMAN'S, RIB KNIT
MIL-T-44047(GL)	TROUSERS, COMBAT; WOODLAND CAMOUFLAGE PATTERN
MIL-T-6284K	TROUSERS, EXTREME COLD WEATHER, TYPE F-16
MIL-T-82120A(MC)	TARPAULINES: DUCK, COTTON; FIRE, WATER, W/M RESISTANT
MIL-T-82152A(MC)	TARPAULINES: DUCK, COTTON, VINYL RESIN COATED BOTH SIDES
MIL-T-83385	TROUSERS, FLYERS', EXTREME COLD WEATHER, CWU-10/P
MIL-T-87029(SA)	TROUSERS, DISPOSABLE
MIL-T-87035A(MU)	TROUSERS, MEN'S (BLUE ENLISTED)
MIL-T-87047(MU)	TROUSERS, MEN'S (BLUE ENLISTED, BLUE AND WHITE)
MIL-U-17411F	UNDERSHIRT, EXTREME COLD WEATHER
MIL-U-43282D	UNDERSHIRT, COLD WEATHER, MEN'S
MIL-V-43707B	VEST, AMMUNITION CARRYING, FOR M74 AND M203 LAUNCHERS
MIL-V-81523A(AS)	VEST, SURVIVAL EQUIPMENT, TYPE SV-2A
PDD-C-428E	COVER, MATTRESS
DDD-H-71H	HANDKERCHIEF, MAN'S AND WOMAN'S
DDD-S-281E	SHEET, BED, COTTON, AND POLYESTER-COTTON
DDD-T-55E	TOWEL, BATH, COTTON, TERRY
JJ-U-513D	UNDERSHIRT, MAN'S, (QUARTER-SLEEVE)
K-P-144E	TARPAULINES, COTTON DUCK, FLAMEX
V-P-254D	PILLOWS, BED, (FEATHER)

SPECIFICATION NUMBER	ITEM DESCRIPTION
MIL-S-3725D	SHELTER HALF, TENT
LF/FDES578A	HELMET, COMBAT VEHICLE CREWMAN, WITH BALLISTIC SHELL, DH-132A
LF/FDES182	BODY ARMOR, SMALL ARMS PROTECTIVE, AIRCREWMAN
LF/FDES1180	BODY ARMOR, COMBAT VEHICLE CREWMEN'S FRAGMENTATION PROTECTIVE UNDERGARM
LF/FDES3073A	BODY ARMOR, GROUND TROOPS, CM AND ICM FRAGMENTATION PROTECTIVE VEST
LF/FDES1973C	COAT, CAMOUFLAGE PATTERN: DESERT
LF/FDES979B	COVER, HELMET, CAMOUFLAGE
LF/FDES1478	COVERALLS, COMBAT VEHICLE CREWMEN'S
LF/FDES979	GLOVES, COMBAT VEHICLE CREWMEN'S, COLD WEATHER
LF/FDES1378	GLOVES, COMBAT VEHICLE CREWMEN'S, SUMMER
LF/FDES2077	HEADBAND, GROUND TROOPS' - PARACHUTISTS' HELMET
LF/FDES1378A	HELMET, GROUND TROOPS' - PARACHUTISTS'
LF/FDES4071B	HAT, CAMOUFLAGE PATTERN: DESERT
LF/FDES1473A	LINER, NIGHT CAMOUFLAGE, PARKA: DESERT
LF/FDES1279	LINER, COMBAT VEHICLE CREWMEN'S COVERALL
LF/FDES1580	OVERALLS: COMBAT VEHICLE CREWMEN'S
LF/FDES2573A	PARKA, NIGHT CAMOUFLAGE PATTERN: DESERT
LF/FDES1074A	TROUSERS, NIGHT CAMOUFLAGE PATTERN: DESERT
LF/FDES2073C	TROUSERS, CAMOUFLAGE PATTERN: DESERT
LF/FDES1480	HOOD, COMBAT VEHICLE CREWMEN'S COVERALLS (BALACLAVA)
LF/FDES1877	SUSPENSION ASSEMBLY, GROUND TROOPS' - PARACHUTISTS' HELMET

SPECIFICATION NUMBER	ITEM DESCRIPTION
VEH-M101A1	3/4 TON, CARGO TRAILER--COVER, TARPAULIN
VEH-M109A3	2 1/2 TON TRUCK SHOP VAN--COVER,CAB; SEATS,DRIVER/COMPANION
VEH-M151A2	1/4 TON TRUCK--COVER,SEATS,STRAPS
VEH-M332	1 1/2 TON AMMO TRAILER--COVER, TARPAULIN
VEH-M561	1 1/4 TON CARGO 6X6--COVER,CURTAINS,SEATS
VEH-M577	CARRIER--SHELTER,TARPAULIN
VEH-M718	1/4 TON AMBULANCE TRUCK--COVER,CURTAIN,SEAT, STRAP
VEH-M792	1 1/4 TON AMBULANCE TRUCK--COVER,CURTAIN,SEATS
VEH-M872	3/4 TON SEMI-TRAILER--COVER, TARPAULIN
VEH-M878	TRUCK TRACTOR, YARD--TOP SOFT
VEH-M886	1 1/4 TON AMBULANCE TRUCK--SEATS
VEH-M915	8 TON LINE HAUL TRACTOR TRUCK--SEATS
VEH-M916	10 TON LINE HAUL TRACTOR TRUCK--SEATS
VEH-M920	10 TON LINE HAUL TRACTOR TRUCK--SEATS
VEH-M926	TRUCK,CARGO,SHORT--TOP,SEAT,BOW AND TARP(KIT)
VEH-M927	TRUCK,CARGO,LONG --TOP,SEAT,BOW AND TARP(KIT)
VEH-M929	TRUCK,DUMP--TOP,SEAT
VEH-M933	TRUCK,WRECKER--TOP,SEAT
VEH-M936	TRUCK,WRECKER--TOP,SEAT
VEH-M977	10 TON CARGO TRUCK,AMMO,8X8
VEH-M985	10 TON CARGO TRUCK,AMMO,8X8
T-10B	PERSONNEL, TROOP, BACK
T-10R	PERSONNEL, TROOP, RESERVE, FRONT
MC1-1D	PERSONNEL, TROOM, BACK
G-11B	CARGO
G-12D	CARGO
G-14	CARGO
15 FT	CARGO, EXTRACTION
22 FT	CARGO, EXTRACTION
28 FT	CARGO, EXTRACTION, HEAVY DUTY

APPENDIX B
LIST OF STUDY TEXTILE COMPONENTS BY SPECIFICATION

BLENDS

Spec	Description	# Occurrences
MIL-C-823	Cloth, Serge; Wool, Wool & Nylon; Poly & Wool	22
MIL-C-21115	Cloth, Tropical, Wool, Poly/Wool	15
MIL-C-43718	Cloth, Twill, Poly: Poly/Ctn; Poly/Rayon	14
MIL-C-43191	Cloth, Wind Resistant, Sateen, Ctn & Nylon	11
MIL-C-3924	Cloth, Oxford, Ctn Warp & Nylon Filling, Quarpel Treated	11
MIL-C-10176	Cloth, Gabardine Wool, Poly & Wool	6
MIL-C-43482	Cloth, Poplin, Ctn & Poly (Water Repellent)	5
MIL-C-29127	Cloth, Twill, Poly/Ctn (Crease Resis. Finish)	5
MIL-C-43920	Cloth, Interlining, Ctn or Synthetic and Nylon	4
MIL-C-21881	Cloth, Poplin, Poly and Ctn	4
LPP-DES18-73	Cloth, Camouflage Pattern, Cotton and Nylon for Daytime Desert Uniform	3
CCC-C-430	Cloth, Sheeting, Ctn, & Poly and Ctn	3
MIL-C-43479	Cloth, Broadcloth, Poly & Ctn	3
MIL-C-44031	Cloth, Camouflage Pattern; Woodland, Ctn & Nylon	3
MIL-C-43892	Cloth, Twill; Ctn & Nyl	2
LPP-DES23-73	Cloth, Poplin, Cotton and Nylon for Desert Night Parka	2
MIL-C-43843	Cloth, Plain Weave, Poly/Ctn, Precured, Durable Press	2
MIL-C-11065	Cloth, Flannel, Wool & Nyl, 16 oz., Shrink Resistant	2
MIL-C-29363	Cloth, Poplin: Poly & Ctn (Water Repellent)	2
MIL-C-43791	Cloth, Twill, Poly/Ctn (Durable Press)	1
MIL-C-43675	Cloth, Interlining, Ctn Warp and Rayon Filled	1
MIL-C-83450	Cloth, Satin Weave, Napped, Aramid Phenolic, Wool/Modacry	1
MIL-C-82252	Cloth, Broadcloth, Wool, and Wool-Synthetic (Moth Proofed)	1

BLENDS

Spec	Description	# Occurrences
CCC-C-476	Cloth, Bunting, Nyl; and Nyl and Wool	1
LPP-DES13-80	Cloth, Interlining, Laminated Waterproofing, MVP Flame Resistant	1
MIL-C-43992	Cloth, Broadcloth, Poly/Ctn, Durable Press	1
MIL-C-82252	Cloth, Broadcloth, Wool, and Wool-Synthetic (Moth Proofed)	1
MIL-C-43847	Cloth, Oxford, Ctn Warp and Ctn and Nyl Blend Filling	1
MIL-C-44034	Cloth, Twill, Camouflage Pattern, Ctn & Nyl for Daytime Des.	1

NATURAL FIBERS

Spec	Description	# Occurrences
CCC-C-419	Cloth, Duck, Ctn, Unbleached, Plied Yarns	18
CCC-C-429	Cloth, Osnaburg, Ctn	15
CCC-C-467	Cloth, Burlap, Jute (Kenaf)	14
MIL-C-326	Cloth, Silesia, Ctn, Pkt Lining	14
CCC-C-438	Cloth, Buckram, Ctn	14
MIL-C-43627	Cloth, Ctn, Duck, Plied Yarns FWWMR, Lightdry Finish	12
MIL-C-297	Cloth, Interlining, Ctn-Warp, & Spun Hair-Wool Filling	7
CCC-C-426	Cloth, Drill, Ctn	6
MIL-C-12095	Cloth, Wind Resistant Sateen, Ctn; Fire Resistant	6
MIL-C-342	Cloth, Wind Resistant, Poplin, Ctn	5
MIL-C-43468	Cloth, Camflg. Ptrn; Wind Resis. Poplin, Ctn	4
MIL-C-10859	Cloth, Oxford, Ctn, (Permeable)	4
MIL-C-16375	Cloth, Wigan, Ctn	4
MIL-C-15062	Cloth, Flannel, Wool, Undercollar Cloth	4
MIL-C-3738	Cloth, Elastique, Wool Resistant	3
CCC-C-436	Cloth, Ticking Twill, Ctn	3
MIL-C-484	Cloth, Wind Resistant Oxford, Ctn Quarpel Treated	3
CCC-C-461	Cloth, Twill, Uniform Ctn	3
MIL-C-10296	Cloth, Sateen, Ctn	2
MIL-C-43122	Cloth, Sateen, Ctn, Flame Resistant Treated	2
MIL-C-16290	Cloth, Melton, Wool (Mothproofed)	2
MIL-C-483	Cloth, Pile: Alpaca and Wool	2
MIL-C-18387	Cloth, Twill, Ctn, Fire Retardant Treated	2

NATURAL FIBERS

Spec	Description	# Occurrences
MIL-C-3760	Cloth, Flannel, Wool & Ctn	2
CCC-C-446	Cloth Muslin, Ctn	2
MIL-C-10799	Cloth, Coated, Ctn, Vinyl Coated, Fire and Mildew Resistant	2
CCC-C-432	Cloth, Sheeting, Ctn, (Unbleached, Bleached, & Dyed)	2
CCC-C-428	Cloth, Duck, Ctn; Fire, WWMR	1
MIL-C-41808	Cloth, Duck, Ctn; Fire, Water, Weather & Mildew Resistant	1
MIL-C-2184	Cloth, Flannel, Wool, 10-1/2 oz., Shrink Resistant	1
CCC-C-440	Cloth, Cheesecloth, Ctn	1
CCC-C-441	Cloth, Corduroy, Ctn	1
MIL-C-29118	Cloth, Twill, Ctn	1
MIL-C-29137	Cloth, Felt Fabric Composite, Undercollar	1
CCC-C-41	Cloth, Corduroy, Ctn	1

MAN-MADE FIBERS

Spec	Description	# Occurrences
MIL-C-508	Cloth, Oxford, Nylon, 3 oz.	15
MIL-C-368	Cloth, Satin, Rayon & Cloth, Twill, Rayon	13
MIL-C-21852	Cloth, Taffeta, Nyl	8
MIL-C-7219	Cloth, Duck, Nyl	6
MIL-C-43594	Cloth, Interlining, Poly	6
MIL-C-12369	Cloth, Ballistic Nyl	6
MIL-C-43128	Cloth, Plain Weave, Poly & Rayon, Crease-Resistant Finish	6
MIL-C-19759	Cloth, Coated, Twill, Nyl (Low Count)	5
MIL-C-43251	Cloth, Pile, Acrylic Fiber Pile	5
MIL-C-43842	Cloth, Oxford, Nyl, Non-melting	5
MIL-C-43525	Cloth, Satin, Acetate or Rayon Face & Rayon or Ctn Back	5
MIL-C-12189	Cloth, Coated; Butyl Coated, Tox. Agents Protective	4
MIL-C-43774	Cloth, Plain or Pajama Check Weave, Nyl Non-melting	3
MIL-C-81814	Cloth, Twill, Aromatic Polyamide, High Temp. Resistant	3
MIL-C-3395	Cloth, Netting, Nyl	3
MIL-C-7350	Cloth, Parachute, Nyl	3
MIL-C-43906	Cloth, Coated, Nyl, Polyurethane, Double Coated	3
MIL-C-43375	Cloth, Duck, Nyl, 12.5 oz.	3
MIL-C-43204	Cloth, Spacer (Olefin)	3
MIL-C-44050	Cloth, Ballistic, Aramid	2
MIL-C-87052	Cloth, Twill, Poly, White	2
MIL-C-41820	Cloth, Gabardine, Poly & Ray	2

MAN-MADE FIBERS

Spec	Description	# Occurrences
MIL-C-43473	Cloth, Coated, Nyl, Polyurethane Coated	1
MIL-C-83429	Cloth, Plain and Basket Weave, Aromatic Polyamide	1
MIL-C-29147	Cloth, Plain Weave, Poly and Ray, Crease-Resistant Finish	1
MIL-C-51251	Cloth, Coted; CBR Protective	1
MIL-C-20696	Cloth, Coated, Nyl, Waterproofed	1
MIL-C-7020	Cloth, Parachute, Nyl	1
MIL-C-43234	Cloth, Plain Weave, Acrylic	1
MIL-C-44043	Cloth, Ballistic, Nyl, Lteight, Water-Repellent Treated	1
MIL-C-21108	Cloth, Nyl, Raft Bottom	1
MIL-C-19002	Cloth, Coated; & Tap, Coated Cloth Chloroprene on Nyl	1
MIL-C-43874	Cloth, Plain Weave, Modacrylic, Water-Repellent	1
MIL-C-43734	Cloth, Duck, Nyl, 9-ounce	1
MIL-C-40039	Cloth, Coated, Nyl, Vinyl Coated	1
LPP-DES32-75	Cloth, Ballistic, Aramid, Water-Repellent Thread	1
MIL-C-19699	Cloth, Coated, Nylon, Tasceta	1
MIL-C-23926	Cloth, Coated and Laminated, Polychloroprene on Nylon	1
MIL-C-43600	Cloth, Twill Aramid	1
MIL-C-43637	Cloth, Ripstop Nylon	1
MIL-F-43539	Cloth, Felt, Ballistic, Nylon	1

KNITS

Spec	Description	# Occurrences
MIL-C-3735	Cuffs, Knit, Wrist & Ankle, & Cloth, Knitted	13
MIL-C-17155	Cloth, Knitted, Nylon, Fleece	8
MIL-C-43938	Cloth, Knitted, Warp, Linen Look, Poly	3
MIL-C-43247	Cloth, Knitted, Nyl, Tubular, Stretch Type	3
MIL-C-17157	Cloth, Knitted, Ctn (Waffle Type)	2
MIL-C-6590	Cloth, Pile (Synthetic Mouton, Knitted)	2
MIL-C-43358	Cloth, Knitted, Nyl/Triacetate, Tricot, OG-106	2
MIL-C-43824	Cloth, Synthetic Fur, Knitted	2
MIL-C-81393	Cloth, Knitted, Polyamide, High Temperature Simplex, Jersey	2
MIL-C-43858	Cloth, Laminated, Nyl Tricot Knit, Polyurethane Foam Lam.	1
MIL-C-43983	Cloth, Knitted, Polyester, Rib Knit	1
MIL-C-83398	Cloth, Coated, Stretch, Polychloroprene, Knitted Nyl	1
MIL-C-40004	Cloth, Knitted, Ctn, Simplex	1
MIL-C-41831	Cloth, Knitted, Nyl, Raschel	1
MIL-C-43352	Cloth, Netting, Nyl, Tulle Tricot	1
LPP-DES12-80	Cloth, Knitted, Aramid, Bi-Ply	1
MIL-C-8061	Cloth, Nylon, Raschel, Knit	1
MIL-G-3866	Cloth, Cotton, Knitted, Light-Weight	1

WEBBING

Spec	Description	# Occurrences
MIL-W-530	Webbing, Tex, Ctn, Gen Purpose, Nat or in Colors	36
JJ-W-155	Webbing, Tex, (Ctn, Elastic)	25
MIL-W-4088	Webbing, Textile, Woven Nylon	20
MIL-W-43638	Webbing, Low Elongation	10
MIL-W-43668	Webbing, Textile, Bulked Nylon	9
MIL-W-5664	Webbing, Textile, Elastic, Ctn	8
MIL-W-43685	Webbing, Tape, Tex, Aramid Fiber	6
MIL-W-5665	Webbing, Tex, Ctn Warp	4
MIL-W-17337	Webbing, Tex, Woven, Nyl	4
MIL-W-27265	Webbing, Textile, Woven Nylon, Impregnated	1
MIL-W-43688	Webbing, Nylon, Bulked	1

TAPE

MIL-T-43566	Tape, Ctn, Gen Purpose	51
DOD-T-86	Tape, Textile, Ctn, Gen Purpose	24
MIL-T-5038	Tape, Textile & Webbing, Textile, Reinforcing, Nylon	14
MIL-T-43709	Tape, Textile, Nyl, Non-Melting	4
MIL-T-5237	Tape, Tex; Webbing, Textile, Rayon	3
MIL-T-2283	Tape, Textile, Nyl, Woven, White or Dyed	1
MIL-T-5661	Tape and Webbing, Cotton, Reinforced	1
MIL-T-8363	Tape and Webbing, Nylon, Woven	1

BATTING

Spec	Description	# Occurrences
MIL-B-41826	Batting, Syn Fibers, Poly (Qultd & Unqultd)	13
MIL-B-81813	Batting, Aramid or Novoloid, Quilted	7

TWINE

T-T-871	Twine, Cotton, Wrapping	15
T-T-911	Twine, Fibrous Jute	14
T-T-881	Twine, Ctn Seine	5

BRAIDS

MIL-B-371	Braid, Tex, Tubular	42
MIL-B-593	Braid, Tex, Flat	3
MIL-B-1667	Braid, Textile, Cord-Edge	1

CORD

MIL-C-43303	Cord, Elastic, Ctn	8
MIL-C-43256	Cord, Polyester, Solid Braid	7
T-C-571	Cord, Cotton, Gen and Special Purpose	7
MIL-C-5040	Cord, Nylon	4
MIL-C-43701	Cord, Elastic, Nylon	3
MIL-C-43678	Cord, Polyester, Diamond Braid	2
MIL-C-83242	Cord, Aromatic Polyamide, Non-Melting	2
MIL-C-7515	Cord, Nylon, Adjusting	1

NON-WOVENS

Spec	Description	# Occurrences
MIL-C-43836	Cloth, Interlining, Non-woven	5
MIL-C-29365	Cloth, Nonwoven: Interlining, Fusible, Nyl & Poly, Polyamid	3
MIL-B-87019	Cloth, Non-woven, Disposable, Spun-Bonded Olefin	1

THREADS - NATURAL

Spec	Description	# Occurrences
V-T-276	Thread, Ctn.	61
V-T-280	Thread, Ctn-Gimp, Buttonhole	59
V-T-301	Thread, Silk	9
V-B-871	Thread, Cotton	1

THREADS - MAN-MADE

V-T-285	Thread, Poly	66
V-T-295	Thread, Nylon	37
MIL-T-43636	Thread, Nylon, Non-melting	12
MIL-T-83193	Thread, Nylon, Spun, Staple, High Temp.	4
MIL-T-43624	Thread, Poly Spun	5

THREADS - BLENDS

MIL-T-43548	Thread, Poly, Ctn-Wrap	86

Spec	Description	# Occurrences
	HEADBAND	
MIL-H-41802	Headband and Neckband, Group Troops, Helmet Liner	2
	SWEATBAND	
MIL-S-3577	Sweatband, Headwear, Leather	2
MIL-S-43993	Sweatband, Headwear, Artificial Leather	1
	LOOPS	
MIL-L-11075	Loops, Strap Fastener	1
	LABEL	
MIL-L-15040	Label, Garment, Woven Rayon	1
	ROPE	
MIL-R-30500	Rope, Polyester	6
MIL-R-1670	Rope, Tent Lay	2
T-R-605	Rope, Manila and Sisal	2
MIL-R-17343	Rope, Polypropylene	1
MIL-R-24049	Rope, Polypropylene	1
T-R-616	Rope, Mildew Resistant	1
	LINES	
MIL-L-1709	Lines, Tent	3
	PADS	
MIL-P-15064	Pads, Shoulder and Sleeve Head	8

Spec	Description	# Occurrences
	STRAP	
MIL-S-43355	Strap, Chin, Suspension Assembly	2
	SUSPENDERS	
MIL-S-6790	Suspenders, Trousers	2
	TUBING	
MIL-T-40625	Tubing, Burlap or Osnaburg	11
	LACES	
V-L-61	Laces, Nylon	6
	COAT FRONTS	
MIL-C-15065	Coat Fronts	6
	SLIP	
MIL-C-1734	Slip, Tent Line	1
	FASTENERS	
MIL-T-21840	Fastener Tape	76

APPENDIX C

DLA SUPPLY CENTERS

Defense Construction Supply Center
3990d East Broad Street
Columbus, OH 43215
614-236-3541

Defense Electronics Supply Center
1507 Wilmington Pike
Dayton, OH 45444
513-296-5231

Defense Fuel Supply Center
Cameron Station, Building 8
5010 Duke Street
Alexandria, VA 22314

Defense General Supply Center
Bellwood
Petersburg Pike
Richmond, VA 23297
804-275-3617

Defense Industrial Supply Center
700 Robbins Avenue
Philadelphia, PA 19111
215-697-2747

Defense Personnel Support Center
2800 South 20th Street
Philadelphia, PA 19101
215-952-2321

APPENDIX D

GOVERNMENT FURNISHED MATERIAL (GFM) MECHANIZED REQUIREMENTS COMPUTATION PROGRAM

Government-Furnished Material

1. Mobilization reserve, if required material is necessary, is needed/required.

2. Required for emergency project orders in Directorate of manufacturing.

3. Required for repair and maintenance of end-items.

4. End-item procurement quantities too small to permit economic purchase of textile material by end-item fabricators, or when quantities are too small to assure purchase of conforming product.

5. To take advantage of marketing conditions.

6. Anticipated shortages of labor.

8. Shortages of raw materials or production facilities.

9. When quantities are such that known substantial savings will result by increased competition and better price because of volume.

10. Specification requirements demand close control of product uniformity (especially subjective characteristics), and timely discovery of material deficiencies is essential for correction to preclude customer complaints.

11. Essential performance characteristics of the material must be assured and controlled prior to cutting and fabrication.

12. Long production lead time is required (normally greater than 4 months).

13. When end-item quantities are such that contractor procurement of the material will cause financial burdens sufficient to discourage or restrict bidding.

14. Cloth is required to be sponged.

15. Procurements are required in order to maintain a production base.

Contractor-Furnished Material

1. When material has a commercial equivalent and is readily available.

2. Relatively few quality aspects, where appearance and/or shade are not essential characteristics.

3. Substitutions and options are permitted.

4. When material contains finishes or treatments liable to be affected by storage.

5. When shade of material is liable to be affected by storage.

6. When material contains defects not easily detected when purchased and inspected according to requirements of the material specification (Example: material notoriously shaded within the roll, liable to cause cutting claims).

7. When potential introduction of new item is liable to cause inventory losses due to obsolescence and phase-out.

8. When material production and end-item fabrication is integrated (i.e., knit goods and domestic textiles).

9. Where costs of purchase, storage, and transportation do not recult in savings and lead time is less than 4 months.

APPENDIX E

UNIFORMS MERCHANDISE LISTING
AS OF DECEMBER 1982

AAFES STOCK NUMBER	Description
441 209 010	Army Shirt S/S Poly/wool SH 428
441 209 040	Army Shirt L/S Poly/wool SH 428
442 329 030	Army Overblouse S/S SH 415
442 329 040	Army Overblouse L/S SH 415
440 233 200	Army Dress Jacket Blue SH 450
440 271 200	Army Dress Trousers Lt Blue SH 451 EM/OFF
440 265 050	Army Dress Trousers Dk Blue SH 450 GEN OFF
442 209 210	Army Women's Dress Blue Uniform SH 450
440 201 010	Army Male Uniform Green SH 434 EM
440 201 020	Army Male Uniform Green SH 434 OFF
440 203 070	Army Male Uniform Green SH 434 GEN OFF
442 209 250	Army Women's Uniform Green Classic 3-Pc SH 434
440 261 020	Army Male Trousers Green SH 434 EM
440 261 030	Army Male Trousers Green SH 434 OFF
442 329 010	Army Women's Maternity Tunic Green SH 434
442 309 030	Army Women's Maternity Slack Green SH 434
442 209 010	Army Women's Maternity Skirt Green SH 434
442 209 203	Army Women's Skirt Classic Green SH 434
442 309 030	Army Women's Slack Classic Green SH 434
440 402 050	Air Force Male Uniform Blue SH 1598
440 432 520	Air Force Male Blue Mess Dress Jacket Officers SH 1583
440 432 530	Air Force Male Blue Mess Dress Jacket EM SH 1583
440 461 050	Air Force Male Trousers Blue SH 1598
440 462 460	Air Force Male Blue Mess Dress Trousers SH 1583
441 403 010	Air Force Male Shirt S/S Blue SH 1580
441 403 020	Air Force Male Shirt L/S Blue SH 1580
442 400 010	Air Force Women's Pantsuit Blue SH 1598
442 409 010	Air Force Women's Skirt Maternity Blue SH 1598
442 409 020	Air Force Women's Uniform Blue SH 1598
442 409 040	Air Force Women's Skirt Blue SH 1598 (washable)
442 409 080	Air Force Women's Blue Mess Dress Jacket SH 1583

UNIFORMS MERCHANDISE LISTING
AS OF DECEMBER 1982
(Continued)

442 409 100	Air Force Women's Blue Skirt Formal Length Straight
442 409 110	Air Force Women's Blue Skirt Formal Length Flare
442 509 010	Air Force Women's Slace Blue SH 1598
442 509 030	Air Force Women's Slack Maternity Blue SH 1598
442 509 010	Air Force Women's Overblouse S/S Wht w/black tab
442 509 020	Air Force Women's Shirt L/S Blue SH 1580
442 529 030	Air Force Women's Turic Maternity Blue SH 1598
442 529 040	Air Force Women's Overblouse S/S Blue SH 1580
442 529 050	Air Force Women's Overblouse S/S (Pantsuit) Blue SH 1580
442 529 260	Air Force Women's Shirt Mess Dress White w/blue tab
440 110 010	AR/AF Fatigue Jacket P.P. without tab OG507
440 111 010	AR/AF Fatigue Trouser P.P. OG507
446 391 010	AR Dress Blue EM Conversion Kit (shoulder straps, two buttons, and sleeve braid).
AR-22	AR L/S Maternity Shirt
AF-24	AR S/S Maternity Shirt
AR/AF-2	AF S/S Maternity Shirt

HEADWEAR MERCHANDISE LISTING

AAFES CODE NUMBER	Description
440 112 010	Cap Fatigue OG 507
440 340 100	AR Cap Garrison 434 OFF
441 340 120	AR Cap Garrison 434 W.O.
441 340 130	AR Cap Garrison 434 EM
441 340 140	AR Cap Garrison 434 GEN
441 342 100	AR Cap Serv Ventld Fld GR
441 342 200	AR Cap Serv Furfelt CO GR
441 342 220	AR Cap Serv Furfelt FLD GR
441 343 342	AR Cap Dress Blue TW EM SH 150
441 343 350	AR Cap Dress Blue Furfelt CO GR
441 343 360	AR Cap Dress Blue Furfelt FD GR
441 349 400	AR Beret, SPEC FORC GRN
441 349 400	AR Beret, Ranger, BLK
441 339 610	AR WM Hat SH 344 GRN CO GR
441 339 620	AR WM Hat SH 344 GRN FLD GR
442 339 630	AR WM Hat SH 450 Blue CO GR
442 339 640	AR WM Hat SH 450 Blue FLD GR
442 339 700	AR WM Beret, BLK
441 541 230	AF Cap Serv SH 1598 AM-CO GR
441 541 240	AF Cap Serv SH 1598 FD GR
441 541 250	AF Cap Serv SH 1598 GEN
441 546 250	AF Cap Mess Dress SH 1583 Blu CO GR
441 546 260	AF Cap Mess Dress SH 1583 Blu FLD GR
441 546 270	AF Cap Mess Dress SH 1583 Blue Gen
441 547 160	AF Cap Flite SH 1598 AMN
441 547 170	AF Cap Flite SH 1598 OFF
441 547 180	AF Cap Flite SH 1598 GEN
441 549 020	AF Beret Scrty Police Blu SH 1561
442 538 010	AF Cap Flite WM SH 1598 AM
442 538 020	AF Cap Flite WM SH 1598 OFF
442 538 030	AF Cap Flite WM SH 1598 GEN
442 530 100	AF WM Serv Cap SH 1598 Blue Plain AM/CO GR
442 530 300	AF WM Serv Cap SH 1598 Blue w/EMB CO GR
442 530 400	AR WM Serv Cap SH 1598 Blue w/EMB FLD GR
441 880 030	Marine Corp Dress Grn OFF CAP DAC/Wool
	New Army Cold Weather Cap

ACCOUTREMENTS MERCHANDISE LISTING

AAFES CODE NUMBER	Description
441-300010	AR BLK WEB BELT W/BRS BUC/TIP
441-300550	AR BLK WEB BELT W/BLK BUC/TIP
441-309010	AR BLK ELAST BELT W/BRS BUC/TIP
441-309500	AR BLK ELAST BELT W/BLK BUC/TIP
441-500520	AF BLU WEB BELT W/NICK BUC/TIP
441-500010	AF BLU ELAST BELT W/NICK BUC/TIP
441-500020	AF BLU WEB BELT W/BLK BUC/TIP
441-500030	AF BLU ELAST BELT W/BLK BUC/TIP
443-260020	AR BRASS STD BUCKLE
443-260240	AR/AF BLACK STD BUCKLE
443-260210	AR BRASS RECTGR BUCKLE
443-460020	AF NICKLE BUCKLE
443-460670	AR "MIRROR/CHROME" BUCKLE W/TIP
441-590030	AR/AF BLACK CUMMERBUND/TIE SET-ADJ SZ
441-040810	AR BLK NKTIE 4/HAND-D/W
441-042020	AR BLK NKTIE REDI D/W, METAL CLIP
441-041200	AR/AF BOW TIE RAYON SQ CLIP
441-40010	AF NKTIE 4/HAND D/V
441-440120	AF NKTIE 4/HAND D/W
441-441170	AF NKTIE REDI D/W METAL CLIP
441-441190	AF NKTIE REDI D/V METAL CLIP
441-286070	AR/AF WHT GLOVE CTN-SNAP SM, ED, LG
441-120380	AR/AF TRS BLSR OD ELAST TWIST HOOK 1 PR/CD
447-271050	U.S. ARMY WOVEN LABEL-SUBD
449-489080	U.S. AIR FORCE WOVEN LABEL-SUBD
443-063070	AR/AF ID METAL BEAD CHAIN 2/CD
443-063580	A/AF PLASTIC ID TAG COVER 2/CD
443-063590	A/AF ID CHAIN IN PLASTIC W/2 ID COVERS
442-199040	AF WM'S BLUE TAB SH1160
441-590040	AF MALE CUMMERBUND BLUE SH1160
442-199030	AF FEMALE CUMMERBUND BLUE SH1160
441-041210	AF BOW TIE BLUE SH1160

OUTERWEAR MERCHANDISE LISTING

AAFES STOCK NUMBER	Description
441 219 020	AR Male Blk Pullover Sweater
442 390 020	AR Female Blk Pullover Sweater
441 219 030	AR Male Blk Cardigan Sweater
442 390 030	AR Female Blk Cardigan Sweater
441 408 010	AF Male Pullover Sweater SH 1594 Blue
442 590 010	AF Female Pullover Sweater SH 1594 Blue
441 802 010	Marine Corp Male Pullover Sweater Olive Green
440 230 010	AR Male Jacket w/liner SH 385 Black
442 207 010	AR Female Jacket w/liner SH 385 Black
440 449 010	AF Male Windbreaker Jacket w/liner SH 3356 Blue
440 820 010	Marine Corp Jacket
440 359 040	AR All Weather Coat
440 550 040	AF All Weather Coat SH 3356 Blue

APPENDIX F
SPECIFICATION REQUIRED TEXTILE PROPERTIES

NATURAL FABRICS

			MIL-C-43627	MIL-C-43468 Type I	MIL-C-43468 Type II	MIL-C-342 Class A	MIL-C-342 Class B
FABRIC	Generic Name		Duck	Poplin	Poplin	Poplin	Poplin
	Weave		Plain		Plain-weave w/rib repeat-warp & filling		
	Warp Ends/Inch			136	106	106	106
	Filling Ends/Inch			52	52	52	52
	Weight-Min. Oz./Sq. Yd.			5.7	5.7	5.7	5.7
	-Max. Oz./Sq. Yd.		16.0	6.7	6.7	6.7	6.7
	Width		36"-46"-59"				
	Minimum Roll Length		40 yards	40 yards	40 yards	40 yards	40 yards
	Minimum Break	W	185	120	100	125	110
		F	165	72	60	82	70
	Minimum Tear	W	6	4	4	4	4
		F	6	4	4	5	4
	Maximum Shrinkage	W	2.[illegible]	2.0	2.0	2.0	2.0
		F	2.[illegible]	2.0	2.0	2.0	2.0
	Maximum Elongation	W				2.0	2.0
		F				2.0	2.0
	Maximum Non-Fibrous Mat.		5.[illegible]			2.0	2.0
	Maximum Air Permeability		4.0	15.0	15.0	15.0	15.0
Processes:	Singeing ?			X	X	X	X
	Bleaching ?			X	X	X	X
	Mercerizing ?			X	X	X	X
	Dyeing ?			X	X		
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?		Vat	Vats + Sulphur Black		Vats	Vats
	Coating Used ?			X	X		
	Infrared Reflect ?						
	Odor Test ?				X		X
	Water Repellent ?		X				
	Hydrostatic Resist ?						
	Stiffness ?		X				
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X	X	X	X	X
	Labile Sulphur?			X	X		
	Resistant to Insect Repel ?						
	Leakage ?						X
	Spray Rating ?			X	X		X
	Colorfastness ?		X	X	X	X	X
	pH Test ?			X	X	X	X
	Mildew Resistance ?		X				
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?		X				
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Cotton	Cotton	Cotton	Cotton	Cotton
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W	2-Ply	2-Ply	2-Ply	2-Ply	2-Ply
		F	2-Ply	2-Ply or Singles		2-Ply or Singles	
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Carded	Combed	Combed	Combed	Combed
		F	Carded	Combed	Combed	Combed	Combed
INTENDED USE			Tents	Camouflage Clothing	Camouflage Clothing	Clothing and Equipage	Clothing Equipage

			CCC-C-436 Type I/Class 1	CCC-C-436 Type II/Class 1	CCC-C-436 Type II/Class 2	MIL-C-404 Type I	MIL-C-404 Type IV
FABRIC	Generic Name		Twill	Twill	Twill	Oxford	Oxford
	Weave		3/1	2/1	2/1		
	Warp Ends/Inch		78	70	70	130	196
	Filling Ends/Inch		62	44	44	54	86
	Weight-Min. Oz./Sq. Yd.		8.5	6.5	6.5	6.5	5.5
	-Max. Oz./Sq. Yd.		9	7	7	7.2	6.2
	Width						
	Minimum Roll Length					40 Yards	40 Yards
	Minimum Break	W	135	110	110	135	170
		F	90	60	60	50	50
	Minimum Tear	W					
		F					
	Maximum Shrinkage	W	2.0	2.0	2.0	2.0	2.0
		F	2.0	2.0	2.0	2.0	2.0
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.		2.0	2.0	2.0	2.0	2.0
	Maximum Air Permeability					4	4
Processes:	Singeing ?					X	X
	Bleaching ?						
	Mercerizing ?					X	X
	Dyeing ?		Yarn Dyed	Yarn Dyed	Yarn Dyed	X	X
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?		Vats	Vats	Vats	Vats	Vats
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?					X	X
	Hydrostatic Resist ?						
	Stiffness ?					X	X
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X	X	X	X	X
	Labile Sulphur?					X	X
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?					X	X
	Colorfastness ?		X	X	X	X	X
	pH Test ?		X	X	X	X	X
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?				X		
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Cotton	Cotton	Cotton	Cotton	Cotton
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W	Singles	Singles	Singles	Singles	Singles
		F	Singles	Singles	Singles	Singles	2-Ply
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Carded	Carded	Carded	Combed	Combed
		F	Carded	Carded	Carded	Combed	Combed
INTENDED USE			Mattress and Pillow Covers	Mattress and Pillow Covers	Matress and Pillow Covers	Wind Resistant Clothing	Wind Resistant Clothing

			CCC-C-467 Class 1	CCC-C-467 Class 2	CCC-C-467 Class 3	CCC-C-467 Class 4	CCC-C-419
FABRIC	Generic Name		Burlap	Burlap	Burlap	Burlap	Duck
	Weave		Plain	Plain	Plain	Plain	Plain
	Warp Ends/Inch		9	10	12	12	
	Filling Ends/Inch		9	9	11	12	
	Weight-Min. Oz./Sq. Yd.		7.2	7.6	9.5	11.4	28.7
	-Max. Oz./Sq. Yd.		7.8	8.4	10.5	12.6	
	Width		40"	40"	40"	40"	
	Minimum Roll Length		25 Yards	25 Yards	25 Yards	25 Yards	40 Yards
	Minimum Break	W					425
		F					345
	Minimum Tear	W					6
		F					3
	Maximum Shrinkage	W					
		F					
	Maximum Elongation	W					
		F					2.5
	Maximum Non-Fibrous Mat.						4.0
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?						
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?						
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?						
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?						
	pH Test ?						
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Jute	Jute	Jute	Jute	Cotton
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					2-Ply
	Ply	W					2-Ply
		F					Spun
	Type Yarn	W					Spun
		F					Carded
	Carded or Combed	W					Carded
		F					
INTENDED USE			Burlap Bagging	Burlap Bagging	Burlap Bagging	Burlap Bagging	Tenting

			MIL-C-10859 Type I	MIL-C-10859 Type II	MIL-C-12095	CCC-C-428
FABRIC	Generic Name		Oxford	Oxford	Sateen	Duck
	Weave				5-Harness w/2 Counter	
	Warp Ends/Inch		124	115	104	Various
	Filling Ends/Inch		42	44	58	Various
	Weight-Min. Oz./Sq. Yd.		5.2	6.0	8.5	Various
	-Max. Oz./Sq. Yd.		6.8		9.5	Various
	Width				25"	
	Minimum Roll Length		50 Yards	50 Yards	40 Yards	
	Minimum Break	W	75	100	170	
		F	60	65	150	
	Minimum Tear	W			4.0	
		F			3.8	
	Maximum Shrinkage	W	1.0	1.0		
		F	1.0	1.0		
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat.				2.0	5.0
	Maximum Air Permeability		20	20	2.0	
Processes:	Singeing ?		X	X	X	
	Bleaching ?		X	X		
	Mercerizing ?		X	X	X	
	Dyeing ?		X	X	X	
	Printing ?					
	Coating ?					
	Fusing?					
	Dyes Used ?				Vats	
	Coating Used ?					
	Infrared Reflect ?					
	Odor Test ?					
	Water Repellent ?			X	X	X
	Hydrostatic Resist ?				X	X
	Stiffness ?		X			X
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Sulphur?				X	
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?		X	X	X	X
	pH Test ?		X		X	
	Mildew Resistance ?					X
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?		X		X	X
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Cotton	Cotton	Cotton	Cotton
	% in Yarn		100.0	100.0	100.0	100.0
	% Tolerance					
	Staple Length					
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool					
	Grade Wool					
	Treatments					
	Type Arabic					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W			40/2	
		F			40/2	
	Ply	W	Singles	Singles	2 or 3-Ply	
		F	Singles	Singles	2 or 3-Ply	
	Type Yarn	W	Spun	Spun	Spun	
		F	Spun	Spun	Spun	
	Carded or Combed	W	Carded	Carded	Combed	
		F	Carded	Carded	Combed	
INTENDED USE			Clothing and Mittens	Clothing and Mittens	Tentage	Various Purposes

		CCC-C-429 Type I/Class 2	CCC-C-429 Type II/Class 2	CCC-C-429 Type II/Class 3	CCC-C-429 Type II/Class 5	CCC-C-429 Type III/Class 2
FABRIC	Generic Name	Osnaburg	Osnaburg	Osnaburg	Osnaburg	Osnaburg
	Weave	Plain	Plain	Plain	Plain	Plain
	Warp Ends/Inch	38	38	32	28	38
	Filling Ends/Inch	24	24	26	24	22
	Weight-Min. Oz./Sq. Yd.	6.8	6.1	4.9	3.5	6.1
	-Max Oz./Sq. Yd.					
	Width					
	Minimum Roll Length	40 Yards	40 Yards	40 Yards	40 Yards	40 Yards
	Minimum Break W	60	60	50	40	60
	F	60	60	50	40	60
	Minimum Tear W					
	F					
	Maximum Shrinkage W					
	F					
	Maximum Elongation W					
	F					
	Maximum Non-Fibrous Mat.	12.0	4.0	4.0	4.0	4.0
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Dyeing ?					X
	Printing ?					
	Coating ?					
	Fusing?					
	Dyes Used ?					
	Coating Used ?					
	Infrared Reflect ?					
	Odor Test ?					
	Water Repellent ?					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?					X
	Labile Sulphur?					X
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?					X
	pH Test ?					
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Fungus Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Repeed					
FIBERS	Types of Fibers	Cotton	Cotton	Cotton	Cotton	Cotton
	% in Yarn	100.0	100.0	100.0	100.0	100.0
	% Tolerance					
	Staple Length					
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count W					
	F					
	Ply W	Singles	Singles	Singles	Singles	Singles
	F	Singles	Singles	Singles	Singles	Singles
	Type Yarn W	Spun	Spun	Spun	Spun	Spun
	F	Spun	Spun	Spun	Spun	Spun
	Carded or Combed : W	Carded	Carded	Carded	Carded	Carded
	F	Carded	Carded	Carded	Carded	Carded
INTENDED USE		Packing Material, Base Cloth For Coating	Packing Material, Base Cloth For Coating	Packing Material, Base Cloth For Coating	Packing Material, Base Cloth For Coating	Packing Material, Base Cloth For Coating

			CCC-C-461 Type I	CCC-C-461 Type II	CCC-C-461 Type III	CCC-C-461 Type IV	CCC-C-461 Type V	CCC-C-461 Type VI
FABRIC	Generic Name		Twill	Twill	Twill	Twill	Twill	Twill
	Weave		3/1 Right	3/1 Right	3/1 Left	3/1 Left	3/1 Left	3/1 Left
	Warp Ends/Inch		116	116	112	100	108	112
	Filling Ends/Inch		56	56	54	54	54	56
	Weight-Min. Oz./Sq. Yd.		8.2	8.2	8.0	7.5	7.5	8.4
	-Max. Oz./Sq. Yd.							
	Width							
	Minimum Roll Length		40 Yards	40 Yards	40 Yards	40 Yards	40 Yards	40 Yards
	Minimum Break	W	180	180	160	160	150	170
		F	120	110	110	110	100	90
	Minimum Tear	W						
		F						
	Maximum Shrinkage	W	1.0	1.0	1.0	1.0	1.0	1.0
		F	1.0	1.0	1.0	1.0	1.0	1.0
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.		2.0	2.0	2.0	2.0	2.0	2.0
	Maximum Air Permeability							
Processes:	Singeing ?		X	X	X	X	X	X
	Bleaching ?		X	X	X	X	X	X
	Mercerizing ?		X	X	X	X	X	X
	Dyeing ?		X	X	X	X	X	X
	Printing ?							
	Coating ?							
	Fusing?							
	Dyes Used ?		Vats	Vats	Vats	Vats	Vats	Vats
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?							
	Hydrostatic Resist ?							
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X	X	X	X	X
	Labile Sulphur?							
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?		X	X	X	X	X	X
	pH Test ?							
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Cotton	Cotton	Cotton	Cotton	Cotton	Cotton
	% in Yarn		100.0	100.0	100.0	100.0	100.0	100.0
	% Tolerance							
	Staple Length							
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool							
	Grade Wool							
	Treatments							
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W						
		F						
	Ply	W	2-Ply	2-Ply	Singles	Singles	Singles	Singles
		F	2-Ply	Singles	Singles	Singles	Singles	Singles
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Combed	Combed	Combed	Combed	Carded	Carded
		F	Combed	Combed	Combed	Combed	Carded	Carded
INTENDED USE			Uniform Fabric	Uniform Fabric	Uniform Fabric	Uniform Fabric	Uniform Fabric	Uniform Fabric

			MIL-C-10296	MIL-C-43122 Class 1, 3	MIL-C-43122 Class 2, 4	MIL-C-16290 Type I	MIL-C-16290 Type II
FABRIC	Generic Name		Sateen	Sateen	Sateen	Melton	Melton
	Weave		5-Harness	5-Harness	5-Harness	2 up, 1 down right twill	3 up, 1 down crow foot
	Warp Ends/Inch		85	80	80	60	55
	Filling Ends/Inch		48	40	40	55	45
	Weight-Min. Oz./Sq. Yd.					16	22
	-Max. Oz./Sq. Yd.		9.0	10.5	10.5	17	24
	Width					56"	56"
	Minimum Roll Length		40 yards	40 yards	40 yards	40 yards	40 yards
	Minimum Break	W	140	110	110	58	80
		F	118	100	100	46	60
	Minimum Tear	W		6	6		
		F		6	6		
	Maximum Shrinkage	W	1.0			4.0	4.5
		F	1.0			3.0	2.0
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.		3.0	3.0	3.0		
	Maximum Air Permeability			10.0	10.0		
Processes:	Singeing ?		X	X	X		
	Bleaching ?		X				
	Mercerizing ?		X	X	X		
	Dyeing ?		X	X	X	Stock	Stock
	Printing ?			X	X		
	Coating ?						
	Dyes Used ?		Vats	Vats	Vats	Mordant	Mordant
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?			X	X	X	
	Hydrostatic Resist ?						
	Stiffness ?			X	X	X	
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X	X	X	X	X
	Labile Sulphur?		X	X	X		
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?					X	X
	Colorfastness ?		X	X	X	X	X
	pH Test ?		X	X	X	X	X
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?			X	X		
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Cotton	Cotton	Cotton	Wool	Wool
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance					5.0	5.0
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool					Pulled or Fleece	
	Grade Wool					>64's	>64's
	Treatments					Mothproofing	Mothproofing
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F	9.5/1				
	Ply (Pile)	W	Singles	Singles	Singles	Singles	Singles
		F	Singles	Singles	Singles	Singles	Singles
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Carded	Carded	Carded	Carded	Carded
		F	Carded	Carded	Carded	Carded	Carded
INTENDED USE			Clothing Fabric	Tent Liners	Fireman's pants	Naval Clothing	Naval Clothing

			MIL-C-297F Type I Class 1	MIL-C-297F Type I Class 2	MIL-C-297F Type II Class 1	MIL-C-297F Type II Class 2	MIL-C-297F Type III Class 1	MIL-C-297F Type III Class 2
FABRIC	Generic Name		Natural	Dyed	Natural	Dyed	Natural	Dyed
	Weave		Plain	Plain	Plain	Plain	Plain	Plain
	Warp Ends/Inch		42	42	42	42	42	42
	Filling Ends/Inch		36	36	36	36	36	36
	Weight-Min. Oz./Sq. Yd.		7.0	7.0	7.5	7.5	5.0	5.0
	-Max. Oz./Sq. Yd.		8.0	8.0	9.0	9.0	6.5	5.5
	Width							
	Minimum Roll Length		40 Yds	40 Yds	40 Yds	40 Yds	40 Yds	40 Yds
	Minimum Break	W	50	50	50	50	50	50
		F	45	45	45	45	45	45
	Minimum Tear	W						
		F						
	Maximum Shrinkage	W						
		F						
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.		8.0%	8.0%	8.0%	8.0%	8.0%	8.0%
	Maximum Air Permeability							
Processes:	Singeing ?							
	Bleaching ?							
	Mercerizing ?							
	Dyeing?			X		X		X
	Printing ?							
	Coating ?							
	Fusing?							
	Dyes Used ?							
	Coating Used ?							
	Infrared Reflect?							
	Odor Test?							
	Water Repellant							
	Hydrostatic Resist ?							
	Stiffness ?		X	X	X	X	X	X
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?			X		X		X
	Labile Sulphur?			X		X		X
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?			X		X		X
	pH Test ?			5.0-8.5		5.0-8.5		5.0-8.5
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
	Thickness (Max)							
	(Min)							
FIBERS	Types of Fibers		*	*	*	*	*	*
	% in Yarn		Min. 25% Animal Fiber		Min. 22% Animal Fiber		Min. 25% Animal Fiber	
	% Tolerance							
	Staple Length							
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool							
	Grade Wool							
	Treatments							
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W						
		F						
	Ply	W	--	--	--	--	--	--
		F	1	1	1	1	1	1
	Type Yarn	W	--					
		F	Spun	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	--					
		F	--					
INTENDED USE			Interlining.	Interlining	Interlining	Interlining	Interlining	Interlining

* Warp: Any combination of cotton and polyester or 45% to 100% poly and rest rayon.
Filling: Goathair and wool or goathair and rayon.

			CCC-C-446E Type III Class 1	CCC-C-446E Type III Class 2	CCC-C-446E Type III Class 3	CCC-C-446E Type IV Class 1	CCC-C-446E Type V Class 1	CCC-C-446E Type VI Class 2	CCC-C-446E Type VII Class 2
FABRIC	Generic Name		Muslin	Muslin	Muslin	Muslin	Muslin	Muslin	Muslin
	Weave		Plain	Plain	Plain	Plain	Plain	Plain	Plain
	Warp Ends/Inch		78	90	83	38	56	64	85
	Filling Ends/Inch		76	70	74	36	60	56	72
	Weight-Min. Oz./Sq. Yd.		3.4	2.9	3.0	2.4	3.9	2.4	3.1
	-Max. Oz./Sq. Yd.								
	Width		--	--	--	--	--	--	--
	Minimum Roll Length		40 Yds	40 Yds	40 Yds	40 Yds	40 Yds	40 Yds	40 Yds
	Minimum Break	W	46	45	44	37	44	35	45
		F	39	32	34	20	50	25	30
	Minimum Tear	W							
		F							
	Maximum Shrinkage	W	9.0	6.0	2.0	9.0	9.0	6.0	6.0
		F	9.0	6.0	2.0	9.0	9.0	6.0	6.0
	Maximum Elongation	W							
		F							
	Maximum Non-Fibrous Mat.		12.0%	2.0%	2.0%	12.0%	12.0%	2.0%	2.0%
	Maximum Air Permeability								
Processes:	Singeing ?			X	X			X	X
	Bleaching ?			Or Dye	Or Dye			Or Dye	Or Dye
	Mercerizing ?								
	Dyeing?			Or Bleach	Or Bleach			Or Bleach	Or Bleach
	Printing ?								
	Coating ?								
	Fusing?								
	Dyes Used ?								
	Coating Used ?								
	Infrared Reflect?								
	Odor Test?								
	Water Repellent								
	Hydrostatic Resist ?								
	Stiffness ?								
	Coating Adhesion ?								
	Coating Distribution ?								
	Blocking ?								
	Color Matching ?		X	X	X	X	X	X	X
	Labile Sulphur?			X	X			X	X
	Resistant to Insect Repel ?								
	Leakage ?								
	Spray Rating ?								
	Colorfastness ?		X	X	X	X	X	X	X
	pH Test ?			5.0-8.5	5.0-8.5			5.0-8.5	5.0-8.5
	Mildew Resistance ?								
	Resin Finish ?								
	Ballistic Resistance ?								
	Antistatic ?								
	Heat Resistance								
	Flame Resistance ?								
	Durable Press								
	Shrink Resistant								
	Crease Resistant								
	Spill Release Treatment								
	Antistatic Finish								
	Napped								
	Thickness (Max)								
	(Min)								
FIBERS	Types of Fibers		Cotton	Cotton	Cotton	Cotton	Cotton	Cotton	Cotton
	% in Yarn		100	100	100	100	100	100	100
	% Tolerance		100	100	100	100	100	100	100
	Sample Length								
	Denier								
	Tenacity								
	Cross-Section								
	Luster								
	Type Wool								
	Grade Wool								
	Treatments								
	Type Aramid								
	Carbonization Temp.								
	Treatments								
YARNS	Carbon Count	W	--	--	--	--	--	--	--
		F	--	--	--	--	--	--	--
	Ply	W	1	1	1	1	1	1	1
		F	1	1	1	1	1	1	1
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Either	Either	Either	Either	Either	Either	Either
		F	Either	Either	Either	Either	Either	Either	Either

			CCC-C-438 Type I/Class 1	CCC-C-438 Type I/Class 2	CCC-C-438 Type II/Class 1	CCC-C-438 Type III/Class 1	CCC-C-438 Type III/Class 2
FABRIC	Generic Name		Buckram	Buckram	Buckram	Buckram	Buckram
	Weave		Plain	Plain	Plain	Plain	Herringbone Twill
	Warp Ends/Inch		52	43	50	46	48
	Filling Ends/Inch		44	22	42	42	20
	Weight-Min. Oz./Sq. Yd.		5.7	5.7	4.5	3.8	12.0
	-Max. Oz./Sq. Yd.		6.8	7.4			
	Width						
	Minimum Roll Length		40 yards	40 yards	40 yards	40 yards	40 yards
	Minimum Break	W	63	80	60	50	140
		F	54	54	50	40	125
	Minimum Tear	W					
		F					
	Maximum Shrinkage	W	2.0	3.0	1.0		
		F	2.0	3.0	1.0		
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.				6.0	3.5	5.0
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?						
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?						
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?		X	X	X	X	X
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking						
	Color Marking ?		X	X	X	X	X
	Labile Odour?		X	X	X	X	X
	Resistance to Insect Repel						
	Leakage						
	Spray Rating ?						
	Colorfastness ?		X	X	X	X	X
	pH Test ?		X	X	X	X	X
	Mildew Resistance ?						
	Resin Finish ?		X	X	X		
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Cotton	Cotton	Cotton	Cotton	Cotton
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W	Singles	Singles	Singles	Singles	Singles
		F	Singles	Singles	Singles	Singles	Singles
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Carded	Carded	Carded	Carded	Carded
		F	Carded	Carded	Carded	Carded	Carded
INTENDED USE			Interlining	Interlining	Interlining	Interlining	Interlining

			MIL-C-483 Type 1	MIL-C-483 Type 2	MIL-C-483 Type 7	MIL-C-483 Type 9	CCC-C-426
FABRIC	Generic Name		Pile	Pile	Pile	Pile	Drill
	Weave		5/16"	1/2"	1/2"	1/4"	2/1 Left Twill
	Warp Ends/Inch						
	Filling Ends/Inch						
	Weight-Min. Oz./Sq. Yd.		15	20.5	19	14	
	-Max. Oz./Sq. Yd.						
	Width						
	Minimum Roll Length		30 Yards	30 Yards	30 Yards	30 Yards	40 Yards
	Minimum Break	W					
		F					
	Minimum Tear	W					
		F					
	Maximum Shrinkage	W					2.0
		F					2.0
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.						10.0
	Maximum Air Permeability						
Processes:	Singeing ?						X
	Bleaching ?						
	Mercerizing ?						X
	Dyeing ?		X	X		X	X
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?						Vats
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X	X		X	X
	Labile Sulphur?						X
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?		X	X		X	X
	pH Test ?		X	X	X	X	X
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Wool	Wool	Alpaca	Wool	Cotton
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance		5.0	5.0	5.0	5.0	
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool		Fleece or pulled	Fleece or pulled	Alpaca	Fleece or pulled	
	Grade Wool		>50's,<56's	>50's,<56's	>56's	>50's,<56's	
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W	2-Ply	2-Ply	2-Ply	2-Ply	Singles
		F					Singles
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun
		F					Spun
	Carded or Combed	W	Combed	Combed	Combed	Combed	Carded
		F					Carded
	Cotton Count of						
	Pile Backing	W	20/2	20/2	20/2	20/2	
	(Cotton)	F	16/2	16/2	16/2	18/2	
INTENDED USE			Cold Climate Lining, Flying Clothes	Cold Climate Lining, Flying Clothes	Cold Climate Lining, Flying Clothes	Cold Climate Lining, Flying Clothes	Clothing

			MIL-C-18387	MIL-C-3760	MIL-C-1760	MIL-C-16375 Type 1	MIL-C-16375 Type 2
FABRIC	Generic Name		Twill		Flannel	Wigan	Wigan
	Weave		3/3 Right		Plain	Plain	Plain
	Warp Ends/Inch		105		38	40	48
	Filling Ends/Inch		100		32	34	40
	Weight-Min. Oz./Sq. Yd.		4.2		3.0	2.5	3.5
	-Max. Oz./Sq. Yd.		4.6				
	Width				60"		
	Minimum Roll Length		40 Yards		40 Yards	40 Yards	40 Yards
	Minimum Break	W	95		42	35	52
		F	60		32	25	28
	Minimum Tear	W	6				
		F	6				
	Maximum Shrinkage	W	2.0		6.0		
		F	2.0		4.0		
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability		18-60				
Processes:	Singeing ?		X				
	Bleaching ?						
	Mercerizing ?		X				
	Dyeing ?		X		Stock		
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?		Vats				
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?		X				
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X		X	X	X
	Labile Sulphur?		X			X	X
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?		X			X	X
	pH Test ?				X	X	X
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?		X				
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Cotton	Wool	Cotton	Cotton	Cotton
	% in Yarn		100.0	80.0	20.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool						
	Grade Wool						
	Treatments				Rotproof		
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W	2-Ply		Singles	Singles	Singles
		F	2-Ply		Singles	Singles	Singles
	Type Yarn	W	Spun		Spun	Spun	Spun
		F	Spun		Spun	Spun	Spun
	Carded or Combed	W	Carded		Carded	Carded	Carded
		F	Carded		Carded	Carded	Carded
INTENDED USE			Flight Clothing		Lining Fabric For Fireman's Pants	Clothing Interlining	Clothing Interlining

			CCC-C-446E Type I Class 1	CCC-C-446E Type I Class 2	CCC-C-446E Type I Class 3	CCC-C-446E Type II Class 1	CCC-C-446E Type II Class 2	CCC-C-446E Type II Class 3
FABRIC	Generic Name		Muslin	Muslin	Muslin	Muslin	Muslin	Muslin
	Weave		Plain	Plain	Plain	Plain	Plain	Plain
	Warp Ends/Inch		64	66	68	68	70	72
	Filling Ends/Inch		58	52	56	70	64	68
	Weight-Min. Oz./Sq. Yd.		2.7	2.4	2.5	3.1	2.7	2.8
	-Max. Oz./Sq. Yd.							
	Width		--	--	--	--	--	--
	Minimum Roll Length		40 Yds	40 Yds	40 Yds	40 Yds	40 Yds	40 Yds
	Minimum Break	W	37	34	36	42	38	40
		F	26	20	22	34	28	30
	Minimum Tear	W						
		F						
	Maximum Shrinkage	W	9.0	6.0	2.0	9.0	6.0	2.0
		F	9.0	6.0	2.0	9.0	6.0	2.0
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.		12.0%	2.0%	2.0%	12.0%	2.0%	2.0%
	Maximum Air Permeability							
Processes:	Singeing ?			X	X		X	X
	Bleaching ?			Or Dye	Or Dye		Or Dye	Or Dye
	Mercerizing ?							
	Dyeing?			Or Bleach	Or Bleach		Or Bleach	Or Bleach
	Printing ?							
	Coating ?							
	Fusing?							
	Dyes Used ?							
	Coating Used ?							
	Infrared Reflect?							
	Odor Test?							
	Water Repellent							
	Hydrostatic Resist ?							
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X	X	X	X	X
	Labile Sulphur?			X	X		X	X
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?		X	X	X	X	X	X
	pH Test ?			5.0-8.5	5.0-8.5		5.0-8.5	5.0-8.5
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
	Thickness (Max)							
	(Min)							
FIBERS	Types of Fibers		Cotton	Cotton	Cotton	Cotton	Cotton	Cotton
	% in Yarn		100	100	100	100	100	100
	% Tolerance		100	100	100	100	100	100
	Staple Length							
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool							
	Grade Wool							
	Treatments							
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W	--	--	--	--	--	--
		F	--	--	--	--	--	--
	Ply	W	1	1	1	1	1	1
		F	1	1	1	1	1	1
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Either	Either	Either	Either	Either	Either
		F	Either	Either	Either	Either	Either	Either
INTENDED USE			Clothing, Flags, Equipage Items	Clothing, Flags, Equipage Items	Clothing, Flags, Equipage Items	Clothing, Flags, Equipage Items	Clothing, Flags, Equipage Items	Clothing, Flags, Equipage Items

			MIL-C-3738 Type I	MIL-C-3738 Type II	MIL-C-3738 Type III	CCC-C-432 Class 1	CCC-C-432 Class 2, 3
FABRIC	Generic Name		Elastique	Elastique	Elastique	Shooting	Shooting
	Weave						Plain
	Warp Ends/Inch		128	124	138	46	58
	Filling Ends/Inch		98	80	96	40	48
	Weight-Min. Oz./Sq. Yd.		14	13	12		
	-Max. Oz./Sq. Yd.					3.3	3.5
	Width		>60"	>60"	>60"		
	Minimum Roll Length		50 Yards	50 Yards	50 Yards	40 Yards	40 Yards
	Minimum Break	W	160	140	130		
		F	90	80	70		
	Minimum Tear	W					
		F					
	Maximum Shrinkage	W	5.5	6.0	5.5	2.0	2.0
		F	3.0	4.0	3.0	2.0	2.0
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						X
	Mercerizing ?						
	Dyeing ?		Stock	Stock	Stock		X
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?		Acid, Mordant	Acid, Mordant	Acid, Mordant		
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?					X	X
	Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X	X	X	X	X
	Lewis Sulphur?						X
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?		X	X	X		X
	pH Test ?		X	X	X	X	X
	Mildew Resistance ?					X	X
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?					X	X
	Durable Press						
	Shrink Resistance						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Wool	Wool	Wool	Cotton	Cotton
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance		5.0	5.0	5.0		
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool		Fleece or Pulled	Fleece or Pulled	Fleece or Pulled		
	Grade Wool		>70's	>64's	>70's		
	Treatments		Mothproofing	Mothproofing	Mothproofing		
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W	2-Ply	2-Ply	2-Ply	Singles	Singles
		F	2-Ply	2-Ply	2-Ply	Singles	Singles
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Combed	Combed	Combed	Carded	Carded
		F	Combed	Combed	Combed	Carded	Carded
INTENDED USE			Uniform Material	Uniform Material	Uniform Material	Clothing and Equipage	Clothing and Equipage

		MIL-C-10799 Type I/Class 1	MIL-C-10799 Type I/Class 3	MIL-C-10799 Type II/Class 1	MIL-C-10799 Type II/Class 3	MIL-C-10799 Type II/Class 4	MIL-C-10799 Type II/Class 5
FABRIC	Generic Name	Vinyl Coated	Vinyl Coated	Vinyl Coated	Vinyl Coated	Vinyl Coated	Vinyl Coated
	Weave	Plain	Twill	Duck	Duck	Duck	Duck
	Warp Ends/Inch						
	Filling Ends/Inch						
	Weight-Min. Oz./Sq. Yd.	7.0	14.0	15.5	12.0	18.0	22.0
	-Max. Oz./Sq. Yd.	3.5	16.0	18.5	15.0	21.0	25.0
	Width						
	Minimum Roll Length	60 Yards	60 Yards	60 Yards	60 Yars	60 Yards	60 Yards
	Minimum Break W						
	F						
	Minimum Tear W						
	F						
	Maximum Shrinkage W						
	F						
	Maximum Elongation W						
	F						
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?	X	X	X	X	X	X
	Printing ?						
	Coating ?	X	X	X	X	X	X
	Fusing?						
	Dyes Used ?	Vats	Vats	Vats	Vats	Vats	Vats
	Coating Used ?	Vinyl Polymer	Vinyl Polymer	Vinyl Polymer	Vinyl Polymer	Vinyl Polymer	Vinyl Polymer
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?	X	X	X	X	X	X
	Hydrostatic Resist ?	X	X	X	X	X	X
	Stiffness ?	X	X	X	X	X	X
	Coating Adhesion ?	X	X	X	X	X	X
	Coating Distribution ?	X	X	X	X	X	X
	Blocking ?	X	X	X	X	X	X
	Color Matching ?	X	X	X	X	X	X
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?	X	X	X	X	X	X
	pH Test ?						
	Mildew Resistance ?	X	X	X	X	X	X
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?	X	X	X	X	X	X
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers	Cotton	Cotton	Cotton	Cotton	Cotton	Cotton
	% in Yarn	100.0	100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count W						
	F						
	Ply W						
	F						
	Type Yarn W						
	F						
	Carded or Combed W						
	F						
INTENDED USE		Airplane ding Covers	Plastic Parts Covers	Insulated Tenting	Recognition Panels	Recognition Panels	Recognition Panels

			MIL-C-15062	MIL-C-2184	MIL-C-29118	CCC-C-440 Type I	CCC-C-440 Type II	CCC-C-440 Type III
FABRIC	Generic Name		Flannel	Flannel	Twill	Cheesecloth	Cheesecloth	Cheesecloth
	Weave		Plain	Plain	3/1 Right	Plain	Plain	Plain
	Warp Ends/Inch		26	68	110	41-47	26-30	37-43
	Filling Ends/Inch		23	68	47	33-39	22-26	22-28
	Weight-Min. Oz./Sq. Yd.		7.2	8.5	5.7	1.4	.90	1.5
	-Max. Oz./Sq. Yd.		7.9	9.5	6.3	1.6	1.10	2.1
	Width		60"	60"				
	Minimum Roll Length		50 Yards	50 Yards	40 Yards	100-200 Yards	100-200 Yards	100-200 Yards
	Minimum Break	W	24	55	155	21	9	18
		F	16	55	55	9.5	4.5	6
	Minimum Tear	W			6.5			
		F			6.5			
	Maximum Shrinkage	W		4.0				
		F		4.0				
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.				2.0			
	Maximum Air Permeability							
Processes:	Singeing ?				X			
	Bleaching ?						X	X
	Mercerizing ?				X			
	Dyeing ?		X	Stock	X			
	Printing ?							
	Coating ?							
	Fusing?							
	Dyes Used ?		Acid	Acid	Vat			
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?							
	Hydrostatic Resist ?							
	Stiffness ?			X				
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X	X		X	X
	Labile Sulphur?							
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?		X	X	X			
	pH Test ?		X	X	X			
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Wool	Wool	Cotton	Cotton	Cotton	Cotton
	% in Yarn		100.0	100.0	100.0	100.0	100.0	100.0
	% Tolerance		5.0	5.0				
	Staple Length							
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool		Fleeced or Pulled	Fleeced or Pulled				
	Grade Wool		>56's	>60's				
	Treatments		Mothproof	Mothproof				
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W						
		F						
	Ply	W	Singles	Singles	2-Ply	Singles	Singles	Singles
		F	Singles	Singles	Singles	Singles	Singles	Singles
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Carded	Combed	Combed	Carded	Carded	Carded
		F	Carded	Combed	Carded	Carded	Carded	Carded
INTENDED USE			Undercollar Cloth	Shirting	Radioactive Protective Garments	Polishing and Cleaning Fabrics	Polishing and Cleaning Fabrics	Polishing and Cleaning Fabrics
VOLUME			27,783	8,584	152	7,583		

			CCC-C-441 Type I/Class 1	CCC-C-441 Type II/Class 1	CCC-C-441 Type II/Class 2
FABRIC	Generic Name		Corduroy	Corduroy	Corduroy
	Weave		"W" Type	"W" Type	"W" Type
	Warp Ends/Inch		29	40	46
	Filling Ends/Inch		136	126	126
	Weight-Min. Oz./Sq. Yd.		10.5		
	-Max. Oz./Sq. Yd.				
	Width				
	Minimum Roll Length		40 Yards	40 Yards	40 Yards
	Minimum Break	W			
		F			
	Minimum Tear	W			
		F			
	Maximum Shrinkage	W		5.0	5.0
		F		3.0	3.0
	Maximum Elongation	W			
		F			
	Maximum Non-Fibrous Mat.				
	Maximum Air Permeability				
Processes:	Singeing ?				
	Bleaching ?				
	Mercerizing ?				
	Dyeing ?			X	X
	Printing ?				
	Coating ?				
	Fusing?				
	Dyes Used ?			Vat	Vat
	Coating Used ?				
	Infrared Reflect ?				
	Odor Test ?				
	Water Repellent ?				
	Hydrostatic Resist ?				
	Stiffness ?				
	Coating Adhesion ?				
	Coating Distribution ?				
	Blocking ?				
	Color Matching ?			X	X
	Labile Sulphur?			X	X
	Resistant to Insect Repel ?				
	Leakage ?				
	Spray Rating ?				
	Colorfastness ?			X	X
	pH Test ?			X	X
	Mildew Resistance ?				
	Resin Finish ?				
	Ballistic Resistance ?				
	Antistatic ?				
	Heat Resistance ?				
	Flame Resistance ?				
	Durable Press				
	Shrink Resistant				
	Crease Resistant		Cotton	Cotton	Cotton
	Soil Release Treatment		100.0	100.0	100.0
	Antistatic Finish				
	Napped				
FIBERS	Types of Fibers				
	% in Yarn				
	% Tolerance				
	Staple Length				
	Denier				
	Tenacity				
	Cross-Section				
	Luster				
	Type Wool				
	Grade Wool				
	Treatments				
	Type Aramid				
	Carbonization Temp.				
	Treatments				
YARNS	Cotton Count	W			
		F			
	Ply	W	Singles	Singles	Singles
		F	Singles	Singles	Singles
	Type Yarn	W	Spun	Spun	Spun
		F	Spun	Spun	Spun
	Carded or Combed	W	Carded	Carded	Carded
		F	Carded	Carded	Carded
INTENDED USE			Clothing	Clothing	Clothing

			MIL-C-29137A Base Cloth	MIL-C-29137A Alternate	MIL-C-29137A Felt	MIL-C-29137A Felt	MIL-C-29137A Composite
FABRIC	Generic Name		Felt-Fabric Composite				
	Weave		Plain	Plain	--	--	--
	Warp Ends/Inch		42	40	--	--	--
	Filling Ends/Inch		26	24	--	--	--
	Weight-Min. Oz./Sq. Yd.		4.0	3.5			8.0
	-Max. Oz./Sq. Yd.		4.4	3.9			12.[illegible]
	Width						--
	Minimum Roll Length						40 [illegible]
	Minimum Break	W					50
		F					30
	Minimum Tear	W					
		F					
	Maximum Shrinkage	W					5.[illegible]%
		F					5.[illegible]%
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing?						X
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?						
	Coating Used ?						
	Infrared Reflect?						
	Odor Test?						
	Water Repellent						
	Hydrostatic Resist ?						
	Stiffness ?						X
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?						X
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?						X
	pH Test ?						5.0-8.0
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
	Thickness (Max)		.020"				.060"
	(Min)		.016"				.040"
FIBERS	Types of Fibers		Cotton	Rayon	Wool	Rayon and/ or Cotton	
	% in Yarn		100	100	40 Min.	Rest	
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool				Fleece or Pulled or Both		
	Grade Wool				Reprocessed or Reused & Noils		
	Treatments				Mothproof		Mothproof
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W	--	--	--	--	
		F	--	--	--	--	
	Ply	W	1	--	--	--	
		F	1	--	--	--	
	Type Yarn	W	Spun	--	--	--	
		F	Spun	--	--	--	
	Carded or Combed	W	Card	--	--	--	
		F	Card	--	--	--	
INTENDED USE			Undercollar	Undercollar	Undercollar	Undercollar	Undercollar

BLENDED FABRICS

			MIL-C-44031 Class 1	MIL-C-44031 Class 1	MIL-C-44031 Class 2	MIL-C-4403 Class 2
FABRIC	Generic Name			Twill		Twill
	Weave			2/1 Left		2/1 Left
	Warp Ends/Inch			96		86
	Filling Ends/Inch			54		54
	Weight-Min. Oz./Sq. Yd.			6.8		7.0
	-Max. Oz./Sq. Yd.			7.3		7.7
	Width					
	Minimum Roll Length			40 Yards		40 Yards
	Minimum Break	W		200		190
		F		125		115
	Minimum Tear	W		11		10
		F		3		7
	Maximum Shrinkage	W		2.0		2.0
		F		2.0		2.0
	Maximum Elongation	W		2.0		2.0
		F		2.0		2.0
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability			25		10
Processes:	Singeing ?			X		X
	Bleaching ?					
	Mercerizing ?			X		X
	Dyeing ?			X		X
	Printing ?			Roller or Screen		Roller or Screen
	Coating ?					
	Dyes Used ?					
	Coating Used ?		Vat Dyes w/Sulphur Black, Acid Blue		Vat Dyes w/Sulphur Black, Acid Blue	
	Infrared Reflect ?			X		X
	Odor Test ?					
	Water Repellent ?					X
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?			X		X
	Labile Sulphur?			X		X
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?			X		X
	Colorfastness ?			X		X
	pH Test ?			X		X
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fabric		Cotton	Nylon	Cotton	Nylon
	% in Yarn		50.0	50.0	50.0	50.0
	% Tolerance		±5	±5	±5	±5
	Staple Length			1-1/2"		1-1/2"
	Denier			2.25-2.5		2.25-2.5
	Tenacity			High		High
	Cross-Section			Round		Round
	Luster			Semi-dull		Semi-dull
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W		Singles		Singles
		F		Singles		Singles
	Type Yarn	W		Spun		Spun
		F		Spun		Spun
	Carded or Combed	W		Carded		Carded
		F		Carded		Carded
INTENDED USE			Combat Camouflage Uniforms for Woodland Areas		Waterproof Combat Uniforms for Woodland Areas	
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			MIL-C-43482 Type I/Class 1	MIL-C-43482 Type I/Class 1	MIL-C-43482 Type I/Class 2	MIL-C-43482 Type I/Class 2	LP/P DES :8-738	LP/P DES :8-738
FABRIC	Generic Name		Poplin	Poplin	Poplin	Poplin		
	Weave		Plain	Plain	Plain	Plain	2/1 Left Twill	
	Warp Ends/Inch		104	104	104	104	96	86
	Filling Ends/Inch		64	64	64	64	54	54
	Weight-Min. Oz./Sq. Yd.		6.0	6.0	6.0	6.0	6.8	6.8
	-Max. Oz./Sq. Yd.		6.7	6.7	6.7	6.7	7.3	7.3
	Width		44"	44"	44"	44"	?	?
			(Inclusive of Selvage)		(Inclusive of Selvage)			
	Minimum Roll Length		40 Yds.	40 Yds.	40 Yds.	40 Yds.	40 Yds.	40 Yds.
	Minimum Break	W	165	165	165	165	200	200
		F	70	70	70	70	125	125
	Minimum Tear.	W	4.0	4.0	4.0	4.0	11	11
		F	2.0	2.0	2.0	2.0	8	8
	Maximum Shrinkage	W	3.0	3.0	3.0	3.0	2.0	2.0
		F	1.0	1.0	1.0	1.0	2.0	2.0
	Maximum Elongation	W	3.0	3.0	3.0	3.0	2.0	2.0
		F	1.0	1.0	1.0	1.0	2.0	2.0
	Maximum Non-Fibrous Mat.		2.0	2.0	2.0	2.0		
	Maximum Air Permeability		1.5	1.5	4.0	4.0	25.0	25.0
Processes:	Singeing ?						X	X
	Bleaching ?							
	Mercerizing ?						X	X
	Dyeing ?		X	X	X	X	X	X
	Printing ?						X	X
	Coating ?							
	Fusing ?							
	Dyes Used ?		Vat & Disperse	Vat & Disperse	Vat & Disperse	Vat & Disperse		
	Coating Used ?							
	Infrared Reflect ?						X	X
	Odor Test ?							
	Water Repellent ?		Quarpel	Quarpel	Fluorocarbon Type	Fluorocarbon Type		
	Hydrostatic Resist ?		45, 45, -	45, 45, -	40,40,40	40,40,40		
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X	X	X	X	X
	Labile Sulphur?						X	X
	Resistance to Insect Repel ?							
	Leakage ?							
	Spray Rating ?		100,100,90	100,100,90	100,100,90 80,80,70	100,100,90 80,80,70		
					After 1 Dryclean	After 1 Dryclean		
	Colorfastness ?		X	X	X	X	X	X
	pH Test ?		5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?		X	X	X	X		
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Polyester	Cotton	Polyester	Cotton	Nylon	Cotton
	% in Yarn		50	Rest	50±5%	Rest	50%	Rest
	% Tolerance		5%	Rest	5%	Rest	±5	
	Staple Length						1-1/2"	
	Denier						2.5	
	Tenacity							
	Cross-Section						Round	
	Luster		Mechanically Brightened	Mechanically Brightened				
	Type Wool							
	Grade Wool							
	Treatments							
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W						
		F						
	Ply	W	2	2	2	2	1	1
		F	1	1	1	1	1	1
	Type Yarn	W	Spun	Spun	Spun	Spun		
		F	Spun	Spun	Spun	Spun		
	Carded or Combed	W		Both		Both		
		F		Both		Both		
INTENDED USE			Raincoats, Jackets, Caps	Raincoats, Jackets, Caps	Raincoats, Jackets, Caps	Raincoats, Jackets, Caps	Daytime Dessert Uniform	

			MIL-C-21881 Type II/Class 1	MIL-C-21881 Type II/Class 1	MIL-C-21881 Type II/Class 2	MIL-C-21881 Type II/Class
FABRIC	Generic Name		Poplin	Poplin	Poplin	Poplin
	Weave		Plain	Plain	Plain	Plain
	Warp Ends/Inch		100	100	100	100
	Filling Ends/Inch		40	40	40	40
	Weight-Min. Oz./Sq. Yd.		4.0	4.0	4.0	4.0
	-Max. Oz./Sq. Yd.		4.5	4.5	4.5	4.5
	Width		?	?	?	?
	Minimum Roll Length		40 Yds.	40 Yds.	40 Yds.	40 Yds.
	Minimum Break	W	100	100	100	100
		F	40	40	40	40
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W	2	2	2	2
		F	2	2	2	2
	Maximum Elongation	W	2	2	2	2
		F	2	2	2	2
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?				White X	White X
	Mercerizing ?					
	Dyeing ?		Khaki X	Khaki X		
	Printing ?					
	Coating ?					
	Fusing ?					
	Dyes Used ?					
	Coating Used ?					
	Infrared Reflect ?					
	Odor Test ?					
	Water Repellent ?					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Fading ?		X	X	X	X
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?		90,90,80	90,90,80	90,90,80	90,90,80
	Colorfastness ?		X	X		
	pH Test ?		5.0-8.0	5.0-8.0	5.0-8.0	5.0-8.0
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Polyester	Cotton	Polyester	Cotton
	% in Yarn		65	32	65	32
	% Tolerance		3	+	3	+
	Staple Length					
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W	1	1	1	1
		F	1	1	1	1
	Type Yarn	W	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun
	Carded or Combed	W		Combed		Combed
		F		Combed		Combed
INTENDED USE			Naval Shirts	Naval Shirts	Naval Shirts	Naval Shirts

			MIL-C-21881 Type III/Class 1	MIL-C-21881 Type III/Class 1	MIL-C-21881 Type III/Class 2	MIL-C-21881 Type III/Class 2
FABRIC	Generic Name		Poplin	Poplin	Poplin	Poplin
	Weave		Plain	Plain	Plain	Plain
	Warp Ends/Inch		105	105	105	105
	Filling Ends/Inch		55	55	55	55
	Weight-Min. Oz./Sq. Yd.		4.7	4.7	4.7	4.7
	-Max. Oz./Sq. Yd.		5.3	5.3	5.3	5.3
	Width		?	?	?	?
	Minimum Roll Length		40 Yds.	40 Yds.	40 Yds.	40 Yds.
	Minimum Break	W	150	150	150	150
		F	70	70	70	70
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W	2	2	2	2
		F	2	2	2	2
	Maximum Elongation	W	2	2	2	2
		F	2	2	2	2
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Dyeing ?		Tan X	Tan X	Green X	Green X
	Printing ?					
	Coating ?					
	Fusing ?					
	Dyes Used ?					
	Coating Used ?					
	Infrared Reflect ?					
	Odor Test ?					
	Water Repellent ?		X	X	X	X
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?		90,90,80	90,90,80	90,90,80	90,90,80
	Colorfastness ?		X	X	X	X
	pH Test ?		5.0-8.0	5.0-8.0	5.0-8.0	5.0-8.0
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Wrinkled					
FIBERS	Types of Fibers		Polyester	Cotton	Polyester	Cotton
	% in Yarn		65	32	65	32
	% Tolerance		3	+	3	+
	Staple Length					
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W	1	1	1	1
		F	1	1	1	1
	Type Yarn	W	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun
	Carded or Combed	W		Combed		Combed
		F		Combed		Combed
INTENDED USE			Swimming Trunks	Swimming Trunks	Swimming Trunks	Swimming Trunks

		MIL-C-43191 Class 1	MIL-C-43191 Class 1	MIL-C-43191 Class 2	MIL-C-43191 Class 2	MIL-C-43191 Class 3	MIL-C-43191 Class 3
FABRIC	Generic Name		Sateen		Sateen		Sateen
	Weave		5-Harness		5-Harness		5-Harness
	Warp Ends/Inch		126		126		126
	Filling Ends/Inch		72		72		72
	Weight-Min. Oz./Sq. Yd.		8.5		8.5		8.5
	-Max. Oz./Sq. Yd.		9.0		9.0		9.0
	Width						
	Minimum Roll Length		50 Yards		50 Yards		50 Yards
	Minimum Break W		225		225		225
	F		225		225		225
	Minimum Tear W		9		9		9
	F		9		9		9
	Maximum Shrinkage W		2.0		2.0		2.0
	F		2.0		2.0		2.0
	Maximum Elongation W		2.0		2.0		2.0
	F		2.0		2.0		2.0
	Maximum Non-Fibrous Mat.		2.0		2.0		2.0
	Maximum Air Permeability		7.0		7.0		7.0
Processes:	Singeing ?		X		X		X
	Bleaching ?						
	Mercerizing ?		X		X		X
	Dyeing?		X		X		X
	Printing ?						Roller or Screen
	Coating ?						
	Fusing?						
	Dyes Used ?		Acid/Vat		Acid/Vat		Acid/Vat Vat/Sulphur Black
	Coating Used ?						
	Infrared Reflect?		X		X		X
	Odor Test?						
	Water Repellent				X		X
	Hydrostatic Resist ?		X		X		X
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X		X		X
	Labile Sulphur?		X		X		X
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?		X		X		X
	Colorfastness ?		X		X		X
	pH Test ?		X		X		X
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers	Cotton	Nylon	Cotton	Nylon	Cotton	Nylon
	% in Yarn	50	50	50	50	50	50
	% Tolerance	-5	+5	-5	+5	-5	+5
	Staple Length		1.5"		1.5"		1.5"
	Denier		2.25-2.5		2.25-2.5		2.25-2.5
	Tenacity		High		High		High
	Cross-Section		Round		Round		Round
	Luster		Semi-dull		Semi-dull		Semi-dull
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count W						
	F						
	Ply W		Singles		Singles		Singles
	F		Singles		Singles		Singles
	Type Yarn W		Spun		Spun		Spun
	F		Spun		Spun		Spun
	Carded or Combed W		Carded		Carded		Carded
	F		Carded		Carded		Carded
INTENDED USE		Wind and Thermal Resistant Clothing	Wind and Thermal Resistant Clothing	Wind and Thermal Resistant Clothing		Wind and Thermal Resistant Clothing	

			MIL-C-21115 Type I/Class 1	MIL-C-21115 Type I/Class 2	MIL-C-21115 Type III/Class 1	MIL-C-21115 Type III/Class 1
FABRIC	Generic Name		Tropical Cloth	Tropical Cloth	Tropical Cloth	Tropical Cloth
	Weave		Plain	Plain	Plain	Plain
	Warp Ends/Inch		50	48	54	54
	Filling Ends/Inch		46	46	42	42
	Weight-Min. Oz./Sq. Yd.		6.4	5.5	5.5	5.5
	-Max. Oz./Sq. Yd.		7.1	--	6.1	6.1
	Width		Min. 60"	Min. 60"	Min. 60"	Min. 60"
	Minimum Roll Length		50 Yds.	50 Yds.	50 Yds.	50 Yds.
	Minimum Break	W	55	50	100	100
		F	50	40	90	90
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W	4.0	4.0	2.5	2.5
		F	3.0	3.0	2.0	2.0
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability					
Processes:	Singeing ?				X	X
	Bleaching ?					
	Mercerizing ?					
	Stock Dyeing ?		X	X	X	X
	Printing ?					
	Coating ?					
	Fusing ?					
	Dyes Used ?		Various	Various	Various	Various
	Coating Used ?					
	Infrared Reflect ?					
	Odor Test ?					
	Water Repellent ?					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?		X	X	X	X
	pH Test ?		5.5 8.5	5.5-8.5	5.5-8.5	5.5-8.5
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Wool	Wool	Wool	Polyester
	% of Yarn		95	95	40 Min.	55 Min.
	% Tolerance		--	--	--	+5
	Staple Length		--	--	--	3"
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool		Fleece or Pulled	Fleece or Pulled	Fleece or Pulled	
	Grade Wool		64's Min.	54's Min.	54's Min.	
	Treatments		Mothproofing	Mothproofing	Mothproofing	
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W	2	2	2	2
		F	2	2	2	2
	Type Yarn	W	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun
	Carded or Combed	W	Combed	Combed	Combed	
		F	Combed	Combed	Combed	
INTENDED USE			Shirts Coats Trousers	Necktie	Shirts Coats Trousers	Shirts Coats Trousers

			MIL-C-21115 Type III/Class 2	MIL-C-21115 Type III/Class 2	MIL-C-21115 Type III/Class 3	MIL-C-21115 Type III/Class 3
FABRIC	Generic Name		Tropical Cloth	Tropical Cloth	Tropical Cloth	Tropical Cloth
	Weave		Plain	Plain	Plain	Plain
	Warp Ends/Inch		55	55	50	50
	Filling Ends/Inch		48	48	44	44
	Weight-Min. Oz./Sq. Yd.		5.3	5.0	6.1	6.1
	-Max. Oz./Sq. Yd.		--	--	6.8	6.8
	Width		54" Min.	54" Min.	60" Min.	50" Min.
	Minimum Roll Length		50 Yds.	50 Yds.	50 Yds.	50 Yds.
	Minimum Break	W	70	70	100	100
		F	68	68	90	90
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W	4.3	4.0	2.5	2.5
		F	3.0	3.0	2.0	2.3
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability					
Processes:	Singeing ?		X	X	X	X
	Bleaching ?					
	Mercerizing ?					
	Stock Dyeing ?		X	X	X	X
	Printing ?					
	Coating ?					
	Fusing ?					
	Dyes Used ?		Various	Various	Various	Various
	Coating Used ?					
	Infrared Reflect ?					
	Odor Test ?					
	Water Repellent ?					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?		X	X	X	X
	pH Test ?		5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Remarks					
FIBERS	Types of Fibers		Wool	Polyester	Wool	Polyester
	% of Yarn		40 Min.	55 Min.	40 Min.	55 Min.
	% Tolerance		--	-5	--	-5
	Staple Length		--	3"	--	3"
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool		Fleece or Pulled		Fleece or Pulled	
	Grade Wool		64's Min.		64's Min.	
	Treatments		Mothproofing		Mothproofing	
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W	1	1	2	2
		F	1	1	2	2
	Type Yarn	W	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun
	Carded or Combed	W	Combed		Combed	
		F	Combed		Combed	
INTENDED USE			Vacation	Vacation	Shirts Coats Trousers	Shirts Coats Trousers

			CCC-C-430 Style A, Type I Class 1	CCC-C-430 Style A, Type I Class 2	CCC-C-430 Style A, Type II Class 1	CCC-C-430 Style A, Type II Class 2
FABRIC	Generic Name		Muslin	Muslin	Muslin	Muslin
	Weave		Plain	Plain	Plain	Plain
	Min. Warp Ends/Inch		68	74	74	74
	Min. Filling Ends/Inch		72	69	66	69
	Weight-Min. Oz./Sq. Yd.		4.7	4.8	4.5	4.6
	-Max. Oz./Sq. Yd.		--	--	--	--
	Width		?	?	?	?
	Minimum Roll Length		50 Yds.	50 Yds.	50 Yds.	50 Yds.
	Minimum Break	W	70	70	70	70
		F	70	70	70	70
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W	--	2.0	--	2.0
		F	--	2.0	--	2.0
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat'.		12.0	12.0	4.0	4.0
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?		No	No	White X	White X
	Mercerizing ?				or	or
	Dyeing ?				X	X
	Printing ?					
	Coating ?					
	Fusing ?					
	Dyes Used ?					
	Coating Used ?					
	Infrared Reflect ?					
	Odor Test ?					
	Water Repellent ?					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Sulphur? (If Dyed)		X	X	X	X
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?		X	X	X	X
	pH Test ?		5.0-8.5	5.0-8.5	5.0-8.5	5.0-8.5
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Cotton	Cotton	Cotton	Cotton
	% of Yarn		100	100	100	100
	% Tolerance		0	0	0	0
	Staple Length					
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W				
		F				
	Type Yarn	W	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun
	Carded or Combed	W	Carded	Carded	Carded	Carded
		F	Carded	Carded	Carded	Carded

INTENDED USE

			CCC-C-430 Style 8, Type I Class 1	CCC-C-430 Style 8, Type I Class 2	CCC-C-430 Style 8, Type II Class 1	CCC-C-430 Style 8, Type II Class 2
FABRIC	Generic Name		Muslin	Muslin	Muslin	Muslin
	Weave		Plain	Plain	Plain	Plain
	Min. Warp Ends/Inch		64	70	68	70
	Min. Filling Ends/Inch		64	63	60	63
	Weight-Min. Oz./Sq. Yd.		4.1	4.2	4.0	4.1
	-Max. Oz./Sq. Yd.		--	--	--	--
	Width		?	?	?	?
	Minimum Roll Length		50 Yds.	50 Yds.	50 Yds.	50 Yds.
	Minimum Break	W	55	55	55	55
		F	55	55	55	55
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W	--	2.0	--	2.0
		F	--	2.0	--	2.0
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat.		12.0	12.0	4.0	4.0
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?		No	No	White I or I	White I or I
	Mercerizing ?					
	Dyeing ?					
	Printing ?					
	Coating ?					
	Fusing ?					
	Dyes Used ?					
	Coating Used ?					
	Infrared Reflect ?					
	Odor Test ?					
	Water Repellent ?					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		I	I	I	I
	Labile Sulphur? (If Dyed)		I	I	I	I
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?		I	I	I	I
	pH Test ?		5.0-8.5	5.0-8.5	5.0-8.5	5.0-8.5
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Cotton	Cotton	Cotton	Cotton
	% of Yarn		100	100	100	100
	% Tolerance		0	0	0	0
	Staple Length					
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W				
		F				
	Type Yarn	W	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun
	Carded or Combed	W	Carded	Carded	Carded	Carded
		F	Carded	Carded	Carded	Carded

INTENDED USE

			CCC-C-430 Style C, Type II Class 1 or 2	CCC-C-430 Style D, Type II Class 1 or 2	CCC-C-430 Style B, Type II Class 1 or 2	CCC-C-430 Style E, Type II Class 1 or 2	CCC-C-430 Style E, Type II Class 1 or 2
FABRIC	Generic Name		Percale	Percale	Percale	Percale	Percale
	Weave		Plain	Plain	Plain	Plain	Plain
	Warp Ends/Inch		98	98	98	98	98
	Filling Ends/Inch		52	52	52	52	52
	Weight-Min. Oz./Sq. Yd.		3.5	3.5	3.5	3.5	3.5
	-Max. Oz./Sq. Yd.		--	--	--	--	--
	Width						
	Minimum Roll Length						
	Minimum Break	W	65	65	65	65	65
		F	65	65	65	65	65
	Minimum Tear	W					
		F					
(Class 2)	Maximum Shrinkage	W	2.0	2.0	2.0	2.0	2.0
		F	2.0	2.0	2.0	2.0	2.0
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.		4.0	6.0	6.0	6.0	6.0
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?						
	Printing ?						
	Coating ?						
	Fusing ?						
	Dyes Used ?						
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Measuring ?						
	Cable Support (If Dyed)		X	X	X	X	X
	Resistance to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?						
	pH Test ?						
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Moppen						
FIBERS	Types of Fibers		Cotton	Polyester	Cotton	Polyester	Cotton
	% of Yarn		100	65	Rest	50	Rest
	% Tolerance		0	±3	Rest	±3	Rest
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatment						
YARNS	Cotton Count	W					
		F					
	Ply	W					
		F					
	Type Yarn	W	Spun	?	?	?	?
		F	Spun	?	?	?	?
	Carded or Combed	W	Combed	?	?	?	?
		F	Combed	?	?	?	?
INTENDED USE							

		CCC-C-430 Style F, Type II Class 1 or 2	CCC-C-430 Style F, Type II Class 1 or 2	MIL-C-423 Type I Class 1	MIL-C-423 Type I Class 2	MIL-C-423 Type I Class 3	MIL-C-423 Type I Class 3
FABRIC	Generic Name	Percale	Percale	Serge	Serge	Serge	Serge
	Weave	Plain	Plain	2 Up, 2 Down, 4 Harness Right Twill		2 Up, 2 Down, 4 Harness Right Twill	
	Warp Ends/Inch	68	68	68	70	68	70
	Filling Ends/Inch	60	60	56	54	56	58
	Weight-Min. Oz./Sq. Yd.	3.8	3.8	11.6	10.3	10.3	9.6
	-Max. Oz./Sq. Yd.			--	--	--	--
	Width			60" Min.	60" Min.	60" Min.	60" Min.
	Minimum Roll Length			50 Yds.	50 Yds.	50 Yds.	50 Yds.
	Minimum Break d	65	65	110	100	100	100
	f	65	65	100	90	90	90
	Minimum Tear d						
	f						
(Class 2)	Maximum Shrinkage d	2.0	2.0	4.0	4.0	4.0	5.0
	f	2.3	2.0	2.5	2.5	3.0	3.0
	Maximum Elongation d						
	f						
	Maximum Non-Fibrous Mat.	5.0	6.0				
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Stock Dyeing ?			X	X	X	X
	Printing ?						
	Coating ?						
	Fusing ?						
	Dyes Used ?			Various	Various	Various	Various
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?			X	X	X	X
	Lamile Sulphur? (If Dyed)	X	X				
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?			X	X	X	X
	pH Test ?			5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers	Polyester	Cotton	Wool	Wool	Wool	Wool
	% of Yarn	50	Rest	95	95	95	95
	% Tolerance	±3	Rest	Minimum	Minimum	Minimum	Minimum
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool			Fleece or Pulled		Fleece or Pulled	
	Minimum Grade Wool			60's	60's	64's	62's
	Treatments				Mothproofing		Mothproofing
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count d						
	f						
	Ply d			2	2	2	2
	f			2	1	2	2
	Type Yarn d	?	?	Spun	Spun	Spun	Spun
	f	?	?	Spun	Spun	Spun	Spun
	Carded or Combed d	?	?	Combed	Combed	Combed	Combed
	f	?	?	Combed	Combed	Combed	Combed
INTENDED USE				Service, Semi-Dress & Dress Uniforms	Service, Semi-Dress & Dress Uniforms	Service, Semi-Dress & Dress Uniforms	Service, Semi-Dress & Dress Uniforms

		MIL-C-823 Type I Class 7	MIL-C-823 Type I Class 8	MIL-C-823 Type II Class 1	MIL-C-823 Type II Class 1	MIL-C-823 Type II Class 2	MIL-C-823 Type II Class 2
FABRIC	Generic Name	Serge	Serge	Serge	Serge	Serge	Serge
	Weave	2 Up, 2 Down 4 Harness Right Twill		2 Up, 2 Down 4 Harness Right Twill		2 Up, 2 down 4 Harness Right Twill	
	Warp Ends/Inch	74	70				
	Filling Ends/Inch	70	62				
	Weight-Min. Oz./Sq. Yd.	7.7	7.7	11.6	11.6	10.3	10.3
	-Max. Oz./Sq. Yd.	--	--	--	--	--	--
	Width	60" Min.	60" Min.	60" Min.	60" Min.	60" Min.	60" Min.
	Minimum Roll Length	50 Yds.	50 Yds.	50 Yds.	50 Yds.	50 Yds.	50 Yds.
	Minimum Break W	90	90	135	135	120	120
	F	70	70	120	120	110	110
	Minimum Tear W						
	F						
	Maximum Shrinkage W	5.0	5.0	4.0	4.0	4.0	4.0
	F	3.0	3.0	2.5	2.5	2.5	2.5
	Maximum Elongation W						
	F						
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Stock Dyeing ?	X	X	X	X	X	X
	Printing ?						
	Coating ?						
	Fusing ?						
	Dyes Used ?	Various	Various	Various	Various	Various	Various
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?	X	X	X	X	X	X
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?	X	X	X	X	X	X
	pH Test ?	4.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers	Wool	Wool	Wool	Nylon	Wool	Nylon
	% of Yarn	95	95	80-85	Rest	80-85	Rest
	% Tolerance	Minimum	Minimum	80-85	--	80-85	--
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool	Fleece or Pulled		Fleece or Pulled		Fleece or Pulled	
	Minimum Grade Wool	64's	64's	60's		60's	
	Treatments	Mothproofing	Mothproofing	Mothproofing		Mothproofing	
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count W						
	F						
	Ply W	2	2	2	2	2	2
	F	2	2	1	1	1	1
	Type Yarn W	Spun	Spun	Spun	Spun	Spun	Spun
	F	Spun	Spun	Spun	Spun	Spun	Spun
	Carded or Combed W	Combed	Combed	Combed		Combed	
	F	Combed	Combed	Combed		Combed	
INTENDED USE		Service, Semi-Dress & Dress Uniforms	Service Semi-Dress & Dress Uniforms	Service Semi-Dress & Dress Uniforms		Service Semi-Dress & Dress Uniforms	

			MIL-C-823 Type III Class 1	MIL-C-823 Type III Class 1	MIL-C-823 Type III Class 2	MIL-C-823 Type III Class 2	MIL-C-823 Type III Class 3	MIL-C-823 Type III Class 3
FABRIC	Generic Name		Serge	Serge	Serge	Serge	Serge	Serge
	Weave		2 Up, 2 Down 4 Harness Right Twill		2 Up, 2 Down 4 Harness Right Twill		2 Up, 2 Down 4 Harness Right Twill	
	Warp Ends/Inch		78	78	74	74	78	78
	Filling Ends/Inch		55	55	48	48	48	48
	Weight-Min. Oz./Sq. Yd.		9	9	7.7	7.7	7.6	7.6
	-Max. Oz./Sq. Yd.		--		--		7.9	7.9
	Width		60" Min.	60" Min.	60" Min.	60" Min.	60" Min.	60" Min.
	Minimum Roll Length		50 Yds.	50 Yds.	50 Yds.	50 Yds.	50 Yds.	50 Yds.
	Minimum Break	W	175	175	150	150	140	140
		F	130	130	125	125	125	125
	Minimum Tear	W						
		F						
	Maximum Shrinkage	W	4.0	4.0	4.0	4.0	3.0	3.0
		F	3.0	3.0	3.0	3.0	2.5	2.5
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.							
	Maximum Air Permeability							
Processes:	Singeing ?							
	Bleaching ?							
	Mercerizing ?							
	Stock Dyeing ?		X	X	X	X	X	X
	Printing ?							
	Coating ?							
	Fusing ?							
	Dyes Used ?		Various	Various	Various	Various	Various	Various
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?							
	Hydrostatic Resist ?							
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X	X	X	X	X
	Labile Sulphur?							
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?		X	X	X	X	X	X
	pH Test ?		5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Hooped							
FIBERS	Types of Fibers		Wool	Polyester	Wool	Polyester	Wool	Polyester
	% in Yarn		40 Min.	55 Min.	40 Min.	55 Min.	40 Min.	55 Min.
	% Tolerance		40 Min.	-5	40 Min.	-5	40 Min.	-5
	Staple Length							
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool		Fleece or Pulled		Fleece or Pulled		Fleece or Pulled	
	Grade Wool		64's		64's		64's	
	Treatments		Mothproofing		Mothproofing		Mothproofing	
	Type Around							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W						
		F						
	Ply	W	2	2	2	2	2	2
		F	1	1	2	2	2	2
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Combed		Combed		Combed	
		F	Combed		Combed		Combed	
INTENDED USE			Service, Semi-Dress & Dress Uniforms	Service, Semi-Dress & Dress Uniforms	Service, Semi-Dress & Dress Uniforms	Service, Semi-Dress & Dress Uniforms	Service, Semi-Dress & Dress Uniforms	Service, Semi-Dress & Dress Uniforms

			MIL-C-43479 Type I Class 1	MIL-C-43479 Type I Class 1	MIL-C-43479 Type I Class 2	MIL-C-43479 Type I Class 2	MIL-C-43479 Type I Class 3	MIL-C-43479 Type I Class 3
FABRIC	Generic Name		Broadcloth	Broadcloth	Broadcloth	Broadcloth	Broadcloth	Broadcloth
	Weave		Plain End-and-End	Plain End-and-End	Plain End-and-End	Plain End-and-End	Plain End-and-End	Plain End-and-End
	Warp Ends/Inch		132	132	132	132	132	132
	Filling Ends/Inch		70	70	70	70	70	70
	Weight-Min. Oz./Sq. Yd.		2.8	2.8	2.8	2.8	2.8	2.8
	-Max. Oz./Sq. Yd.		3.4	3.4	3.4	3.4	3.4	3.4
	Width		44" Min.	44" Min.	44" Min.	44" Min.	44" Min.	44" Min.
	Minimum Roll Length		40 Yd. Min.	40 Yd. Min.	40 Yd. Min.	40 Yd. Min.	40 Yd. Min.	40 Yd. Min.
	Minimum Break	W	90	90	90	90	90	90
		F	40	40	40	40	40	40
	Minimum Tear	W						
		F						
	Maximum Shrinkage	W	2	2	2	2	2	2
		F	2	2	2	2	2	2
	Maximum Elongation	W	2	2	2	2	2	2
		F	2	2	2	2	2	2
	Maximum Non-Fibrous Mat.							
	Maximum Air Permeability							
Processes:	Singeing ?		X	X	X	X	X	X
	Bleaching ?		White X	White X				
	Mercerizing ?		X	X	X	X	X	X
	Dyeing ?				X	X	X	X
	Printing ?							
	Coating ?							
	Fusing ?							
	Dyes Used ?				Disperse	Vat	Disperse	Vat
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?							
	Hydrostatic Resist ?							
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X	X	X	X	X
	Labile Sulphur?							
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?				X	X	X	X
	pH Test ?		5.0-8.5	5.0-8.5	5.0-8.5	5.0-8.5	5.0-8.5	5.0-8.5
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
	Permanent Press						X	X
FIBERS	Types of Fibers		Polyester	Cotton	Polyester	Cotton	Polyester	Cotton
	% in Yarn		65	Rest	65	Rest	65	Rest
	% Tolerance		±3		±3		±3	
	Staple Length							
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool							
	Grade Wool							
	Treatments							
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W						
		F						
	Ply	W	1	1	1	1	1	1
		F	1	1	1	1	1	1
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W		Combed		Combed		Combed
		F		Combed		Combed		Combed
INTENDED USE			Shirts	Shirts	Shirts	Shirts	Shirts	Shirts

		MIL-C-3926 Type I Class 4	MIL-C-3926 Type I Class 4	MIL-C-3926 Type II Class 3	MIL-C-3926 Type II Class 3
FABRIC	Generic Name	Broadcloth	Broadcloth	Broadcloth	Broadcloth
	Weave	Plain End-and-End	Plain End-and-End	Plain End-and-End	Plain End-and-End
	Warp Ends/Inch	132	132	100	100
	Filling Ends/Inch	70	70	54	44
	Weight-Min. Oz./Sq. Yd.	2.8	2.8	3.2	3.2
	-Max. Oz./Sq. Yd.	3.4	3.4	3.7	3.7
	Width	44" Min.	44" Min.	44" Min.	44" Min.
	Minimum Roll Length	40 Yd. Min.	40 Yd. Min.	40 Yd. Min.	40 Yd. Min.
	Minimum Break W	90	90	70	70
	F	40	40	52	52
	Minimum Tear W				
	F				
	Maximum Shrinkage W	2	2	2	2
	F	2	2	2	2
	Maximum Elongation W	2	2	2	2
	F	2	2	2	2
	Maximum Non-Fibrous Mat.				
	Maximum Air Permeability				
Processes:	Singeing ?	X	X	X	X
	Bleaching ?	White X	White X	White X	White X
	Mercerizing ?	X	X	X	X
	Dyeing ?				
	Printing ?				
	Coating ?				
	Fixing ?				
	Dyes Used ?				
	Coating Used ?				
	Infrared Reflect ?				
	Odor Test ?				
	Water Repellent ?				
	Hydrostatic Resist ?				
	Stiffness ?				
	Coating Adhesion ?				
	Coating Distribution ?				
	Blocking ?				
	Color Matching ?	X	X	X	X
	Labile Sulphur?				
	Resistant to Insect Repel ?				
	Leakage ?				
	Spray Rating ?				
	Colorfastness ?				
	pH Test ?	5.0-8.5	5.0-8.5	5.0-8.5	5.0-8.5
	Mildew Resistance ?				
	Resin Finish ?				
	Ballistic Resistance ?				
	Antistatic ?				
	Heat Resistance ?				
	Flame Resistance ?				
	Durable Press				
	Shrink Resistant				
	Crease Resistant				
	Soil Release Treatment				
	Antistatic Finish				
	Waxed				
	Permanent Press	X	X		
FIBERS	Types of Fibers	Polyester	Cotton	Polyester	Cotton
	% in Yarn	65	Rest	65	Rest
	% Tolerance	±3		±3	
	Staple Length				
	Denier				
	Tenacity				
	Cross-section				
	Luster				
	Type Wool				
	Grade Wool				
	Treatments				
	Type Aramid				
	Carbonization Temp.				
	Treatments				
YARNS	Cotton Count W				
	F				
	Ply W	1	1	1	1
	F	1	1	1	1
	Type Yarn W	Spun	Spun	Spun	Spun
	F	Spun	Spun	Spun	Spun
	Carded or Combed W		Combed		Combed
	F		Combed		Combed
INTENDED USE		Shirts	Shirts		

			MIL-C-3924 Class 1	MIL-C-3924 Class 1	MIL-C-3924 Class 2	MIL-C-3924 Class 2	MIL-C-3924 Class 3	MIL-C-3924 Class 3
FABRIC	Generic Name		Oxford	Oxford	Oxford	Oxford	Oxford	Oxford
	Weave		(2 Warp Ends Weave as 1)	(2 Warp Ends Weave as 1)	(2 Warp Ends Weave as 1)	(2 Warp Ends Weave as 1)	(2 Warp Ends Weave as 1)	(2 Warp Ends Weave as 1)
	Warp Ends/Inch		---	160	---	160	- -	160
	Filling Ends/Inch		74	---	74	---	74	---
	Weight-Min. Oz./Sq. Yd.		4.8	4.8	4.8	4.8	4.8	4.8
	-Max. Oz./Sq. Yd.		5.8	5.8	5.8	5.8	5.8	5.8
	Width		?	?	?	?	?	?
	Minimum Roll Length		40 Yards	40 Yards	40 Yards	40 Yards	40 Yards	40 Yards
	Minimum Break	W	---	175	---	175	---	150
		F	138	---	155	---	125	---
	Minimum Tear	W						
		F						
	Maximum Shrinkage	W	1.0	1.0	1.0	1.0	1.0	1.0
		F	1.0	1.0	1.0	1.0	1.0	1.0
	Maximum Elongation	W	1.0	1.0	1.0	1.0	1.0	1.0
		F	1.0	1.0	1.0	1.0	1.C	1.0
	Maximum Non-Fibrous Mat.							
	Maximum Air Permeability		3.0	3.0	3.0	3.0	3.0	3.0
Processes:	Singeing ?		X	X	X	X	X	X
	Bleaching ?		X	X				
	Mercerizing ?		X	X	X	X	X	X
	Dyeing ?				X	X		
	Printing ?						X Camouflage	X
	Coating ?							
	Fusing?							
	Dyes Used ?				Acid	Vat	Acid	Vat
	Coating Used ?							
	Infrared Reflect ?		X	X	X	X	X	X
	Odor Test ?							
	Water Repellent ? (Quarpel)		X	X	X	X	X	X
	Hydrostatic Resist ?		X	X	X	X	X	X
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X	X	X	X	X
	Labile Sulphur?		X	X	X	X	X	X
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?		X	X	X	X	X	X
	Colorfastness ?							
	pH Test ?		5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Nylon Filling	Cotton Warp	Nylon Filling	Cotton Warp	Nylon Filling	Cotton Warp
	% in Yarn							
	% Tolerance							
	Staple Length							
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool							
	Grade Wool							
	Treatments							
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W	---	60	---	60	---	60
		F	?	---	?	---	?	---
	Ply	W	---	2	---	2	---	2
		F	1	---	1	---	1	---
	Type Yarn	W	---	Spun	---	Spun	---	Spun
		F	Monofilament	---	Monofilament	---	Monofilament	---
	Carded or Combed	W	---	Combed	---	Combed	---	Combed
		F	---	---	---	---	---	---
INTENDED USE			Parkas, Trousers	Parkas, Trousers	Parkas, Trousers	Parkas, Trousers	Parkas, Trousers	Parkas, Trousers

		MIL-C-43718 Class 1	MIL-C-43718 Class 1	MIL-C-43718 Class 2	MIL-C-43718 Class 2	P/P OES 23-738	LP/P OES 23-738
FABRIC	Generic Name	Twill	Twill	Twill	Twill	Poplin	
	Weave	2 up, 1 down, left twill or plain		2 up, 1 down, left twill or plain		Plain	
	Warp Ends/Inch	73				92	
	Filling Ends/Inch	46				52	
		(-15% tolerance for 100% Polyester)					
	Weight-Min. Oz./Sq. Yd.					6.6	
	-Max. Oz./Sq. Yd.						
	Width	?	?	?	?		
	Minimum Roll Length	50 Yards	50 Yards	50 Yards	50 Yards	40 Yards	
	Minimum Break W					300	
	F					150	
	Minimum Tear W					8.5	
	F					4.0	
	Maximum Shrinkage W	3.0	3.0	3.0	3.0	2.0	
	F	2.0	2.0	2.0	2.0	2.0	
	Maximum Elongation W					2.0	
	F					2.0	
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability					8.6	
Processes:	Singeing ?					X	
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?					X	
	Printing ?					X	
	Coating ?					(Resin Bond) X	
	Fusing?						
	Dyes Used ?					Direct/Resin Pigments	
	Coating Used ?						
	Infrared Reflect ?					X	
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Masking ?	X	X	X	X	X	
	Lamin Support	X	X	X	X	X	
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?	X	X	X	X	X	
	pH Test ?	5.0-8.5	5.0-8.5	5.0-8.5	5.0-8.5	X	
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistance						
	Crease Resistance						
	Soil Release Treatment						
	Antistatic Finish						
	Resinous						
FIBERS	Types of Fibers	Poly	Cotton or Rayon	Poly	Cotton	Cotton	Nylon
	% in Yarn	47 to 100	Rest	47 to 60	Rest	30.0	70.0
	% Tolerance	47 to 100				±5	±5
	Staple Length					~	~
	Denier						1 1/2
	Tenacity						2.25-2.5
	Cross-Section						High
	Luster						Round
	Type Wool						Semi-wool
	Grade Wool						
	Treatments						
	Type Around						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count W						
	F						
	Ply W						
	F						
	Type Yarn W					Singles	
	F					Singles	
	Carded or Combed W					Spun	
	F					Spun	
					Carded	Carded	
						Carded	
INTENDED USE		Packaging	Packaging	Packaging	Packaging	Night Desert Clothing	

			MIL-C-43892	MIL-C-43892	MIL-C-43843	MIL-C-43843
FABRIC	Generic Name		Twill	Twill	Plain Weave	Plain Weave
	Weave		2/1 Right Twill	2/1 Right Twill	Plain	Plain
	Warp Ends/Inch		94	94	102	102
	Filling Ends/Inch		46	46	56	56
	Weight-Min. Oz./Sq. Yd.		4.0	4.8	4.6	4.6
	-Max. Oz./Sq. Yd.		5.3	5.3	---	---
	Width		?	?	?	?
	Minimum Roll Length		50 Yards	50 Yards	40 Yards	40 Yards
	Minimum Break	W	155	155	125	125
		F	65	65	90	90
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W	2.0	2.0	2.0	2.0
		F	2.0	2.0	2.0	2.0
	Maximum Elongation	W	2.0	2.0	2.0	2.0
		F	2.0	2.0	2.0	2.0
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability		75.0	75.0		
Processes:	Singeing ?					
	Bleaching ?				X	X
	Mercerizing ?				X	X
	Dyeing?		X	X	X	X
	Printing ?					
	Coating ?					
	Fusing?					
	Dyes Used ?		Various	Various		
	Coating Used ?					
	Infrared Reflect?					
	Odor Test?					
	Water Repellent		X	X		
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Sulphur?		X	X	X	X
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?		X	X		
	Colorfastness ?		X	X	X	X
	pH Test ?		5.0-8.5	5.0-8.5	5.0-8.5	5.0-8.5
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press				X	X
	Shrink Resistant					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Nylon	Cotton	Poly	Cotton
	% in Yarn		50	50	65	rest
	% Tolerance		±5	±5	±3	
	Staple Length		1 1/2"	---		
	Denier		2.25	---		
	Tenacity					
	Cross-Section		Round	---		
	Luster					
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W			≤ 27	≤ 27
		F			≤ 22.5	≤ 22.5
	Ply	W	1	1	1	1
		F	1	1	1	1
	Type Yarn	W				
		F				
	Carded or Combed	W	---	Carded	---	Combed
		F	---	Carded	---	Combed
INTENDED USE			Chemical Protective Overgarment	Chemical Protective Overgarment	Necktabs (in Women's Poly/Cotton Shirt)	Necktabs (in Women's Poly/Cotton Shirt)

			MIL-C-10176 Type I/Class 1	MIL-C-10176 Type I/Class 5	MIL-C-10176 Type I/Class 7	MIL-C-10176 Type I/Class 8
FABRIC	Generic Name		Gabardine	Gabardine	Gabardine	Gabardine
	Weave		2/1 Right Twill	2/2 Right Twill	2/2 Right Twill	2/2 Right Twill
	Warp Ends/Inch		96	112	120	98
	Filling Ends/Inch		48	56	60	52
	Wgt. Min. Oz./Sq. Yd.		7.1	8.3	10.3	8.4
	Max. Oz./Sq. Yd.		---	---	---	---
	Width		Min. 60"	Min. 60"	Min. 60"	Min. 56"
	Minimum Roll Length		50 Yards	50 Yards	50 Yards	50 Yards
	Minimum Break	W	98	115	120	130
		F	42	55	55	55
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W	4.0	4.0	4.0	5.0
		F	1.0	1.0	1.0	1.0
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Stock Dyeing?		X	X	X	X
	Printing ?					
	Coating ?					
	Fusing?					
	Dyes Used ?		Various	Various	Various	Various
	Coating Used ?					
	Infrared Reflect?					
	Odor Test?					
	Water Repellent					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Coating ?					
	Colorfastness ?		X	X	X	X
	pH Test ?		5.5-6.5	5.5-6.5	5.5-6.5	5.5-6.5
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Wool	Wool	Wool	Wool
	% in Yarn		Min. 95	Min. 95	Min. 95	Min. 95
	% Tolerance		Min. 95	Min. 95	Min. 95	Min. 95
	Staple Length					
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool		Fleece or Pulled	Fleece or Pulled	Fleece or Pulled	Fleece or Pulled
	Grade Wool		62's	64's	62's	64's
	Treatments		Mothproofing	Mothproofing	Mothproofing	Mothproofing
	Type Arnel					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W	2	2	2	2
		F	2	2	2	2
	Type Yarn	W	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun
	Carded or Combed	W	Combed	Combed	Combed	Combed
		F	Combed	Combed	Combed	Combed
INTENDED USE			Clothing	Clothing	Clothing	Clothing

			MIL-C-10176 Type II/Class 1	MIL-C-10176 Type II/Class 1	MIL-C-10176 Type II/Class 8	MIL-C-10176 Type II/Class 8
FABRIC	Generic Name		Gabardine	Gabardine	Gabardine	Gabardine
	Weave		2/1 Right Twill	2/1 Right Twill	2/2 Right Twill	2/2 Right Twill
	Warp Ends/Inch		54	54	114	114
	Filling Ends/Inch		48	48	56	56
	Weight-Min. Oz./Sq. Yd.		6.8	5.8	6.1	5.1
	-Max. Oz./Sq. Yd.		---	---	---	---
	Width		Min. 60"	Min. 60"	Min. 60"	Min. 60"
	Minimum Roll Length		50 Yards	50 Yards	50 Yards	50 Yards
	Minimum Break	W	190	190	160	150
		F	110	110	70	70
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W	3.0	3.0	3.0	3.0
		F	2.5	2.5	2.0	2.0
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Stock Dyeing?		X	X	X	X
	Printing ?					
	Coating ?					
	Fusing?					
	Dyes Used ?		Various	Various	Various	Various
	Coating Used ?					
	Infrared Reflect?					
	Odor Test?					
	Water Repellent					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?		X	X	X	X
	pH Test ?		5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Reused					
FIBERS	Types of Fibers		Poly	wool	Poly	wool
	% in Yarn		Min. 55	Min. 40	Min. 55	Min. 40
	% Tolerance		-4	Min. 40	-4	Min. 40
	Staple Length					
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool		Fleece or Pulled		Fleece or Pulled	
	Grade Wool		62's		64's	
	Treatments		Mothproofing		Mothproofing	
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W	2	2	2	2
		F	2	2	2	2
	Type Yarn	W	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun
	Carded or Combed	W	Combed	Combed	Combed	Combed
		F	Combed	Combed	Combed	Combed
INTENDED USE			Clothing	Clothing	Clothing	Clothing

			MIL-C-10176 Type II/Class 9	MIL-C-10176 Type II/Class 9	MIL-C-10176 Type II/Class 10	MIL-C-10176 Type II/Class 10
FABRIC	Generic Name		Gabardine	Gabardine	Gabardine	Gabardine
	Weave		2/2 Right Twill	2/2 Right Twill	2/1 Right Twill	2/1 Right Twill
	Warp Ends/Inch		122	122	90	90
	Filling Ends/Inch		62	62	50	50
	Weight-Min. Oz./Sq. Yd.		6.9	6.9	8.4	9.4
	-Max. Oz./Sq. Yd.		---	---	---	---
	Width		60" Min.	60" Min.	60" Min.	60" Min.
	Minimum Roll Length		50 Yards	50 Yards	50 Yards	50 Yards
	Minimum Break	W	160	160	120	120
		F	80	80	80	80
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W	2.0	2.0	3.0	3.0
		F	1.5	1.5	1.0	1.0
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Stock Dyeing?		X	X	X	X
	Printing ?					
	Coating ?					
	Fusing?					
	Dyes Used ?		Various	Various	Various	Various
	Coating Used ?					
	Infrared Reflect?					
	Odor Test?					
	Water Repellent					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Solvent?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?		X	X	X	X
	pH Test ?		5.5-6.5	5.5-6.5	5.5-6.5	5.5-6.5
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Needed					
FIBERS	Types of Fibers		Poly	Wool	Poly	Wool
	% in Yarn		Min. 55	Min. 40	Min. 55	Min. 40
	% Tolerance		+5	Min. 40	+5	Min. 40
	Staple Length					
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool		Fleece or Pulled		Fleece or Pulled	
	Grade Wool		54's		54's	
	Treatments		Mothproofing		Mothproofing	
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W	2	2	2	2
		F	2	2	2	2
	Type Yarn	W	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun
	Carded or Combed	W		Combed		Combed
		F		Combed		Combed
INTENDED USE			Clothing	Clothing	Clothing	Clothing

			MIL-C-10176 Type II/Class11	MIL-C-10176 Type II/Class11	MIL-C-10176 Type II/Class12	MIL-C-10176 Type II/Class12
FABRIC	Generic Name		Gabardine	Gabardine	Gabardine	Gabardine
	Weave		2/1 Right Twill	2/1 Right Twill	2/2 Right Twill	2/2 Right Twill
	Warp Ends/inch		90	90	108	108
	Filling Ends/inch		53	53	58	58
	Weight-Min. Oz./Sq. Yd.		7.2	7.2	6.3	6.3
	-Max. Oz./Sq. Yd.		---	---	---	---
	Width		60" Min.	60" Min.	60" Min.	60" Min.
	Minimum Roll Length		50 Yards	50 Yards	50 Yards	50 Yards
	Minimum Break	W	120	120	140	140
		F	70	70	72	72
	Minimum Tear	W				
		F				
	Max. Shrinkage	W	1.0	1.0	1.0	1.0
		F	1.0	1.0	2.0	2.0
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Stock Dyeing?		X	X	X	X
	Printing ?					
	Coating ?					
	Fusing?					
	Dyes Used ?		Various	Various	Various	Various
	Coating Used ?					
	Infrared Reflect?					
	Odor Test?					
	Water Repellent					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?		X	X	X	X
	pH Test ?		5.5-8.5	5.5-8.5	5.5-8.5	5.5-8.5
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Poly	Wool	Poly	Wool
	% in Yarn		Min. 55	Min. 40	Min. 55	Min. 40
	% Tolerance		+5	Min. 40	+5	Min. 40
	Staple Length					
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool			Fleece or Pulled		Fleece or Pulled
	Grade Wool			64's		64's
	Treatments			Mothproofing		Mothproofing
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W	2	2	2	2
		F	2	2	2	2
	Type Yarn	W	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun
	Carded or Combed	W		Combed		Combed
		F		Combed		Combed
INTENDED USE			Clothing	Clothing	Clothing	Clothing

			MIL-C-11065	MIL-C-11065	MIL-C-29127 Class 1	MIL-C-29127 Class 1	MIL-C-29127 Class 2	MIL-C-29127 Class 2
FABRIC	Generic Name		Flannel	Flannel	Twill	Twill	Twill	Twill
	Weave		2/2 Broken twill: 2 ends rt. 2 lft.		2 up 1 down right twill		2 up 1 down right twill	
	Warp Ends/Inch		38	38	102	102	102	102
	Filling Ends/Inch		33	33	50	50	50	50
	Weight-Min. Oz./Sq. Yd.		10.3	10.3	6.8	6.8	6.8	6.8
	-Max. Oz./Sq. Yd.		---	---	---	---	---	---
	Width		min. 60"	min. 60"	?	?	?	?
	Minimum Roll Length		50 Yards	50 Yards	40 Yards	40 Yards	40 Yards	40 Yards
	Minimum Break	W	50	50	170	170	170	170
		F	40	40	85	85	85	85
	Minimum Tear	W			7.0	7.0	7.0	7.0
		F			5.0	5.0	5.0	5.0
	Maximum Shrinkage	W			2.0	2.0	2.0	2.0
		F			2.0	2.0	2.0	2.0
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.				6.0	6.0	6.0	6.0
	Maximum Air Permeability							
Processes:	Singeing ?							
	Bleaching ?						X	X
	Mercerizing ?				X	X	X	X
	Dyeing ?		Stock	Stock	X	X		
	Printing ?							
	Coating ?							
	Fusing?							
	Dyes Used ?		Various	Various				
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?							
	Hydrostatic Resist ?							
	Stiffness ?		X	X				
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X	X	X	X	X
	Labile Sulphur?				X	X		
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?		X	X	X	X	X	
	pH Test ?		4.0-8.0	4.0-8.0	5.0-8.5	5.0-8.5	5.0-8.5	5.0-8.5
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant		X	X				
	Crease Resistant				X	X	X	X
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Wool	Nylon	Poly	Cotton	Poly	Cotton
	% in Yarn		Min. 80%	Max. 20%	50%	Rest	50%	Rest
	% Tolerance		Min. 90%	Max. 20%	±3%		±3%	
	Staple Length				1-1/2"		1-1/2"	
	Denier				Max 2.5		Max 2.5	
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool		?					
	Grade Wool		?					
	Treatments		Mothproofing					
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W						
		F						
	Ply	W	1	1	2	2	2	2
		F	1	1	1	1	1	1
	Type Yarn	W						
		F						
	Carded or Combed	W	Carded	Carded		Combed		Combed
		F	Carded	Carded		Combed		Combed
INTENDED USE			Shirting	Shirting	Uniform Clothing	Uniform Clothing	Uniform Clothing	Uniform Clothing

			MIL-C-79363	MIL-C-79363	MIL-C-43675 (WARP)	MIL-C-43675 (FILLING)	MIL-C-43700 Type I	MIL-C-43700 Type I
FABRIC	Generic Name		Poplin	Poplin	Interlining	Interlining	Twill	Twill
	Weave		Plain	Plain	Plain	Plain	(2 up-1 down right twill)	
	Warp Ends/Inch		110	110	50	---	106	106
	Filling Ends/Inch		48	48	---	35	50	50
	Weight-Min. Oz./Sq. Yd.		5.5	5.5	7.0	7.0	6.8	6.8
	Max. Oz./Sq. Yd.		6.8	6.8	---	---	7.8	7.8
	Width		Min. 44"	Min. 44"			7	7
	Minimum Roll Length		40 Yards	40 Yards	20 Yards	20 Yards	40 Yards	40 Yards
	Minimum Break	W	185	185	45	---	170	170
		F	70	70	---	55	90	90
	Minimum Tear	W	5.0	5.0			5.0	5.0
		F	2.0	2.0			3.0	3.0
	Maximum Shrinkage	W	2.0	2.0	4.0	---	2.0	2.0
		F	1.0	1.0	---	4.0	1.5	1.5
	Maximum Elongation	W	2.0	2.0				
		F	1.0	1.0				
	Maximum Non-Fibrous Mat.						2.0	2.0
	Maximum Air Permeability		4.0	4.0				
Processes:	Singeing ?							
	Bleaching ?						X	X
	Mercerizing ?						X	X
	Dyeing ?		X	X			X	X
	Printing ?							
	Coating ?							
	Fusing?							
	Dyes Used ?		Various	Various	---	---	(Not or Not & Discovered)	
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?		X	X				
	Hydrostatic Resist ?							
	Stiffness ?				0.082-0.000	0.12-0.20		
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X			X	X
	Labile Sulphur?		X	X			X	X
	Resistant to Insect Depel ?							
	Leakage							
	Spray Rating ?		X	X			X	X
	Colorfastness ?		X	X			X	X
	pH Test ?		5.5-6.5	5.5-6.5			5.0-6.5	5.0-6.5
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press Treatment						X	X
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment						X	X
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Poly	Cotton	Cotton Warp	Rayon Filling	Poly	Cotton
	% in Yarn		45%	rest			50%	
	% Tolerance		±3%				±5%	
	Staple Length						1-1/2"	
	Denier						Min 2.5	
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool							
	Grade Wool							
	Finishments							
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W					35	35
		F					18	18
	Ply	W	2	2	1	---	2	2
		F	1	1	---	2	1	1
	Type Yarn	W	Spun	Spun				
		F	Spun	Spun				
	Carded or Combed	W		Combed				Combed
		F		Combed				Combed
INTENDED USE			All Weather Coats and Windbreakers	All Weather Coats and Windbreakers	Cap Interlining	Cap Interlining		

			MIL-C-43791 Type II/Class 1	MIL-C-43791 Type II/Class 1	MIL-C-43791 Type II/Class 2	MIL-C-43791 Type II/Class 2	MIL-C-43791 Type II/Class 3	MIL-C-43791 Type II/Class 3
FABRIC	Generic Name		Twill	Twill	Twill	Twill	Twill	Twill
	Weave		(2 Up-1 Down Left Twill)	(2 Up-1 Down Left Twill)	(2 Up-1 Down Left Twill)	(2 Up-1 Down Left Twill)	(2 Up-1 Down Left Twill)	(2 Up-1 Down Left Twill)
	Warp Ends/Inch		85	85	85	85	85	85
	Filling Ends/Inch		45	45	45	45	45	45
	Weight-Min. Oz./Sq. Yd.		6.8	6.8	6.8	6.8	6.8	6.8
	-Max. Oz./Sq. Yd.		7.8	7.8	7.8	7.8	7.8	7.8
	Width		?	?	?	?	?	?
	Minimum Roll Length		40 Yards	40 Yards	40 Yards	40 Yards	40 Yards	40 Yards
	Minimum Break	W	145	145	145	145	145	145
		F	90	90	90	90	90	90
	Minimum Tear	W	5.0	5.0	5.0	5.0	5.0	5.0
		F	5.0	5.0	5.0	5.0	5.0	5.0
	Maximum Shrinkage	W	2.0	2.0	2.5	2.5	2.5	2.5
		F	1.5	1.5	1.5	1.5	1.5	1.5
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.		2.0	2.0	2.0	2.0	2.0	2.0
	Maximum Air Permeability							
Processes:	Singeing ?							
	Bleaching ?							
	Mercerizing ?		X	X	X	X	X	X
	Dyeing ?		X	X	X	X	X	X
	Printing ?							
	Coating ?							
	Fusing?							
	Dyes Used ?		(Vat and Dispersed)		(Vat and Dispersed)		(Vat and Dispersed)	
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?							
	Hydrostatic Resist ?							
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X	X	X	X	X
	Labile Sulfur?		X	X	X	X	X	X
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?		X	X	X	X	X	
	Colorfastness ?		X	X	X	X	X	
	pH Test ?		5.0 - 8.5	5.0 - 8.5	5.0 - 8.5	5.0 - 8.5	5.0 - 8.5	5.0 - 8.5
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press Treatment		X	X	X	X	X	X
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Poly	Cotton	Poly	Cotton	Poly	Cotton
	% in Yarn							
	% Tolerance							
	Staple Length		1-1/2"		1-1/2"		1-1/2"	
	Denier		Max 2.5		Max 2.5		Max 2.5	
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool							
	Grade Wool							
	Treatments							
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W	14-15.5	14-15.5	14-15.5	14-15.5	14-15.5	14-15.5
		F	12.5-14	12.5-14	12.5-14	12.5-14	12.5-14	12.5-14
	Ply	W	1	1	1	1	1	1
		F	1	1	1	1	1	1
	Type Yarn	W						
		F						
	Carded or Combed	W		Either		Either		Either
		F		Either		Either		Either
INTENDED USE								

		MIL-C-43490 Warp	MIL-C-43490 Filling	MIL-C-43490 Filling	MIL-C-43490 Filling	MIL-C-43490 Filling	MIL-C-43490 Filling
FABRIC	Generic Name						
	Weave	8 harness warp face stain, 5 counter ss relates to staple filling yarn. 1 up, 3 down, right twill for 2 ends and 3 down, 1 up reversal for 2 ends ss relates to continuous filling around. Two picks conc. filament and 2 picks staple.					
	Warp Ends/Inch	105	---	---	---	---	---
	Filling Ends/Inch	---	continuous 65	65	65	65	65
	Turns/Inch	4 to 6	4 to 6	?	?	?	?
	Weight-Min. Oz./Sq. Yd.	9.5					
	-Max. Oz./Sq. Yd.	9.5					
	Width	54"					
	Minimum Roll Length						
	Minimum Break W	150	150	150	150	150	150
	F	100	100	100	100	100	100
	Minimum Tear W	20	20	20	20	20	20
	F	20	20	20	20	20	20
	Maximum Shrinkage W						
	F						
	Maximum Elongation W						
	F						
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?						
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?						
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?						
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?						
	pH Test ?						
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped	2 Passes on Filling Side	2 Passes on Filling Side	2 Passes on Filling Side	2 Passes on Filling Side	2 Passes on Filling Side	2 Passes on Filling Side
FIBERS	Types of Fibers	Meta-aramid Warp	Meta-aramid Filling	Meta-aramid and para-aramid intermediate modulus Filling	Filling	Meta-aramid	Novoid
	% in Yarn			50	50		
	% Tolerance						
	Staple Length	Continuous	Continuous				
	Denier	200/100	200/100				
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count W						
	F						
	Ply W						
	F						
	Type Yarn W						
	F						
	Carded or Combed W						
	F						
INTENDED USE		Non-Melting Flying Clothing	Non-Melting Flying Clothing	Non-Melting Flying Clothing	Non-Melting Flying Clothing	Non-Melting Flying Clothing	Non-Melting Flying Clothing

			MIL-C-82252 Type I/Class 1	MIL-C-82252 Type I/Class 2	MIL-C-82252 Type I/Class 3	MIL-C-82252 Type I/Class 4	MIL-C-82252 Type I/Class 5
FABRIC	Generic Name		Broadcloth	Broadcloth	Broadcloth	Broadcloth	Broadcloth
	Weave		2/1 right twill	2/1 right twill	2/1 right twill	2/1 right twill	2/1 right twill
	Warp Ends/Inch		54	56	60	54	30
	Filling Ends/Inch		58	55	58	54	54
	Weight-Min. Oz./Sq. Yd.		9.0	10.0	10.3	10.7	14.1
	-Max. Oz./Sq. Yd.		9.6	10.7	10.9	11.3	15.4
	Width (Min.)		56"	54"	56"	54"	56"
	Minimum Roll Length		40 Yards	40 Yards	40 Yards	40 Yards	40 Yards
	Minimum Break	W	45	50	40	55	55
		F	42	45	35	45	40
	Minimum Tear	W					
		F					
	Maximum Shrinkage	W	5.0	2.0	3.5	3.5	4.0
		F	4.0	1.5	3.5	2.5	3.0
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Stock Dyeing?		X	X	X	X	X
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?						
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X	X	X	X	X
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?		X	X	X	X	X
	pH Test ?		4.0-8.0	4.0-8.0	4.0-8.0	4.0-8.0	4.0-8.0
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Wool	Wool	Wool	Wool	Wool
	% in Yarn		Min. 95%	Min. 95%	Min. 95%	Min. 95%	Min. 95%
	% Tolerance		Min. 95%				
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool		Fleece or Pulled	Fleece or Pulled	Fleece or Pulled	Fleece or Pulled	Fleece or Pulled
	Grade Wool		64's	64's	64's	60's	64's
	Treatments		Methereofing	Methereofing	Methereofing	Methereofing	Methereofing
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W	1	1	1	1	1
		F	1	1	1	1	1
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Carded	Carded	Carded	Carded	Carded
		F	Carded	Carded	Carded	Carded	Carded
INTENDED USE			Clothing	Clothing	Clothing	Clothing	Clothing

			MIL-C-82252 Type II/Class 1	MIL-C-82252 Type II/Class 1	MIL-C-82252 Type II/Class 2	MIL-C-82252 Type II/Class 2	MIL-C-82252 Type II/Class 3	MIL-C-82252 Type II/Class 3
FABRIC	Generic Name		Broadcloth	Broadcloth	Broadcloth	Broadcloth	Broadcloth	Broadcloth
	Weave		2/1 right twill	2/1 right twill	2/1 right twill	2/1 right twill	2/1 right twill	2/1 right twill
	Warp Ends/Inch		56	56	54	54	51	51
	Filling Ends/Inch		55	55	54	54	51	51
	Weight-Min. Oz./Sq. Yd.		10.0	10.0	10.7	10.7	10.7	10.7
	-Max. Oz./Sq. Yd.		10.7	10.7	11.3	11.3	11.3	11.3
	Width		Min. 54"	Min. 54"	Min. 54"	Min. 54"	Min. 54"	Min. 54"
	Minimum Roll Length		40 Yards	40 Yards	40 Yards	40 Yards	40 Yards	40 Yards
	Minimum Break	W	50	50	55	55	55	55
		F	45	45	45	45	45	45
	Minimum Tear	W						
		F						
	Maximum Shrinkage	W	2.0	2.0	3.5	3.5	3.5	3.5
		F	1.5	1.5	2.5	2.5	2.5	2.5
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.							
	Maximum Air Permeability							
Processes:	Singeing ?							
	Bleaching ?							
	Mercerizing ?							
	Stock Dyeing?		X	X	X	X	X	X
	Printing ?							
	Coating ?							
	Fusing?							
	Dyes Used ?							
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?							
	Hydrostatic Resist ?							
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X	X	X	X	X
	Labile Sulphur?							
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?		X	X	X	X	X	X
	pH Test ?		4.0-8.0	4.0-8.0	4.0-8.0	4.0-8.0	4.0-8.0	4.0-8.0
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Wool	(Syn?)	Wool	(Syn?)	Wool	(Syn?)
	% in Yarn		Min. 83%	Max. 17%	Min. 83%	Max. 17%	Min. 83%	Max. 17%
	% Tolerance		Min. 83%	Max. 17%	Min. 83%	Max. 17%	Min. 83%	Max. 17%
	Staple Length							
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool		Fleece or Pulled		Fleece or Pulled		Fleece or Pulled	
	Grade Wool		60's		60's		60's	
	Treatments		Mothproofing		Mothproofing		Mothproofing	
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W						
		F						
	Ply	W	1	1	1	1	1	1
		F	1	1	1	1	1	1
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W	Carded	Carded	Carded	Carded	Carded	Carded
		F	Carded	Carded	Carded	Carded	Carded	Carded
INTENDED USE								
TIME								

			MIL-C-43847	MIL-C-43847	MIL-C-43847	MIL-C-44034	MIL-C-44034
FABRIC	Generic Name		Oxford	Oxford	Nylon Oxford	Twill	Twill
	Weave		Plain, except 2 warp yarns		weave as one	2/1 Left Twill	2/1 Left Twill
	Warp Ends/Inch		130	---	---	36	36
	Filling Ends/Inch		---	48	48	54	54
	Weight-Min. Oz./Sq. Yd.		7.0	7.3	7.0	6.8	6.3
	-Max. Oz./Sq. Yd.		8.0	8.0	8.0	7.3	7.3
	Width		?	?	?	?	?
	Minimum Roll Length		40 Yards	40 Yards	40 Yards	40 Yards	40 Yards
	Minimum Break	W	150	---	---	200	200
		F	---	90	80	125	125
	Minimum Tear	W	4.0	---	---	11	11
		F	---	2.5	2.5	8	9
	Maximum Shrinkage	W				2.0	2.0
		F				2.0	2.0
	Maximum Elongation	W				2.0	2.0
		F				2.0	2.0
	Maximum Non-Fibrous Mat.		2.0	2.0	2.0		
	Maximum Air Permeability		5.0	5.0	5.0	25.0	25.0
Processes:	Singeing ?		X	X	X	X	X
	Bleaching ?						
	Mercerizing ?		X	X	X	X	X
	Dyeing?					X	X
	Printing ?		X	X	X	X	X
	Coating ?						
	Fusing?						
	Dyes Used ?		Vat	Vat	Vat		
	Coating Used ?						
	Infrared Reflect ?		X	X	X	X	X
	Odor Test ?						
	Water Repellent ?		X	X	X		
	Hydrostatic Resist ?		X	X	X		
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X	X	X	X	X
	Labile Sulphur?		X	X	X	X	X
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?		X	X	X		
	Colorfastness ?		X	X	X	X	X
	pH Test ?		5.0-8.5	5.0-8.5	5.0-8.5	5.5-8.5	5.5-8.5
	Mildew Resistance ?		X	X	X		
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Cotton Warp	Cotton Filling	Nylon Filling	Cotton	Nylon
	% In Yarn		100%	50%	Min. 45%	Rest	50%
	% Tolerance		0	± 5%	Min. 45%		± 5%
	Staple Length				1-1/2"		1-1/2"
	Denier				2.25		2.5
	Tenacity						
	Cross-Section				Round		Round
	Luster						
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W	2	---	---	1	1
		F	---			1	1
	Type Yarn	W					
		F					
	Carded or Combed	W	Combed	---	---	Carded	
		F	---	Carded		Carded	
INTENDED USE			Tent	Tent	Tent	Daytime Desert Uniform	Daytime Desert Uniform

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			CCC-C-476 Type I/Class A	CCC-C-476 Type I/Class B	CCC-C-476 Type II	CCC-C-476 Type II
FABRIC	Generic Name		Bunting	Bunting	Bunting	Bunting
	Weave		Plain (Selvage as Oxford)		Plain (Selvage as Oxford)	
	Warp Ends/Inch		106	62	32	32
	Filling Ends/Inch		76	50	30	30
	Weight-Min. Oz./Sq. Yd.		2.7	1.6	4.3	4.3
	-Max. Oz./Sq. Yd.		?	?	?	?
	Width		40 Yards	40 Yards	40 Yards	40 Yards
	Minimum Roll Length		125	225	115	115
	Minimum Break	W	155	152	100	100
		F				
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W				
		F				
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat					
	Maximum Air Permeabilit					
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Dyeing?					Stock Dye
	Printing ?					
	Coating ?					
	Fusing?					
	Dyes Used ?					
	Coating Used ?					
	Infrared Reflect?					
	Odor Test?					
	Water Repellent					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?		X	X	X	X
	pH Test ?		5.0-8.5	5.0-8.5	4.0-8.0	4.0-8.0
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Nylon	Nylon	Nylon	Wool
	% in Yarn				75	25
	% Tolerance				±5	±5
	Staple Length		Continuous	Continuous	Staple	
	Denier		70 Warp or 140	200 or 210		
	Tenacity					
	Cross-Section					
	Luster		Bright	Bright	Bright	
	Type Wool				Fleece or pulled	
	Grade Wool					46's
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W	1	1	2	2
		F	2 or 1	1	2	2
	Type Yarn	W	(Continuous	(Continuous	Spun	Spun
		F	filament)	filament)	Spun	Spun
	Carded or Combed	W				Combed
		F				Combed
INTENDED USE			Flags	Flags	Flags	Flags

MAN-MADE FABRICS

		MIL-C-7020G Type I	MIL-C-7020G Type Ia	MIL-C-7020G Type II	MIL-C-7020G Type IIa	MIL-C-7020G Type III	MIL-C-7020G Type IIIa
FABRIC	Weave	Rip Stop (Figure 1)	Rip Stop Reinf. Selv. (Figure 1)	Twill 2up/2down/twill	Twill Reinf. Selv. 2up/2down/twill	Rip Stop (Figure 2)	Rip Stop Reinf. Selv. (Figure 2)
	Warp Ends/Inch	120	120	120	120	120	120
	Filling Ends/Inch	120	120	76	76	76	76
	Weight-Min. Oz./Sq. Yd. -Max. Oz./Sq. Yd.	1.1	1.1	1.6	1.6	1.6	1.6
	Width	36.5±0.5	36.5±0.5	36.5±0.5	36.5±0.5	36.5±0.5	36.5±0.5
	Minimum Roll Length	100 yds.	100 yds.	100 yds.	100 yds.	100 yds.	100 yds.
	Minimum Break W	42	42	50	50	50	50
	F	42	42	50	50	50	50
	Minimum Tear W	5±1	5±1	5	5	1	1
	F	5	5	5	5	1	1
	Maximum Shrinkage W	2%	2%	2%	2%	2%	2%
	F	2%	2%	2%	2%	2%	2%
	Maximum Elongation W	20	20	20	20	20	20
	F	20	20	20	20	20	20
	Maximum Non-Fibrous Mat.	(see 3.3.3.1. and 3.3.3.2.)					
	Maximum Air Permeability	120	12	160	160	160	160
	Maximum Thickness	0.003	0.003	0.004	0.004	0.004	0.004
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?						
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?						
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ? (Quarpel						
	Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?						
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?	%	%	%	%	%	%
	pH Test ?	5 to 9	5 to 9	5 to 9	5 to 9	5 to 9	5 to 9
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Light & Heat Resistance	%	%	%	%	%	%
	Age Maximum	3.5 yrs.	3.5 yrs.	3.5 yrs.	3.5 yrs.	3.5 yrs.	3.5 yrs.
	Flame Resistant						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon
	% in Yarn	100%	100%	100%	100%	100%	100%
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity	High	High	High	High	High	High
	Cross-Section						
	Luster	Bright	Bright	Bright	Bright	Bright	Bright
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count W						
	F						
	Ply W						
	F						
	Type Yarn W						
	F						
	Carded or Combed W						
	F						
	TPI W	S	S	S	S	S	S
	F	-	-	-	-	-	-
SELVAGE REQUIREMENTS	Width ± 1/16"	-	1/2	-	1/2	-	1/2
	Thickness (max)"	-	0.006	-	0.006	-	0.006
	Breaking Strength (min.)	-	56	-	56	-	56
INTENDED USE		(Parachute or Base Cloth for Coated Fabrics)					

			MIL-C-7350E Type I/Class I	MIL-C-7350E Type I/Class II	MIL-C-7350E Type II/Class I	MIL-C-7350E Type II/Class II
FABRIC	Weave		(See Figure 1)	(see Figure 1)	(see Figure 2)	(see Figure 2)
	Warp Ends/Inch		70	70	52	52
	Filling Ends/Inch		70	70	52	52
	Weight-Min. Oz./Sq. Yd.					
	-Max. Oz./Sq. Yd.		2.25	2.25	3.50	3.50
	Width		36.5±0.5	39.5±0.5	36.5±0.5	39.5±0.5
	Minimum Roll Length		100 yds	100 yds	100 yds	100 yds
	Minimum Break	W	90	90	125	125
		F	90	90	125	125
	Minimum Tear	W	10	10	30	20
		F	10	10	30	30
	Maximum Shrinkage	W				
		F				
	Maximum Elongation	W	25	25	25	25
		F	25	25	25	25
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability		150	150	200	200
	Maximum Thickness		0.0068"	0.0068"	0.0140"	0.0140"
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Dyeing ?		<----------(selvage thread only)---------->			
	Printing ?					
	Coating ?					
	Fusing?					
	Dyes Used ?					
	Coating Used ?					
	Infrared Reflect ?					
	Odor Test ?					
	Water Repellent ? (Quarpel					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?					
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?		X	X	X	X
	pH Test ?		5 to 9	5 to 9	5 to 9	5 to 9
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Light & Heat Resistance		X	X	X	X
	Age Maximum		3.5 yrs.	3.5 yrs.	3.5 yrs.	3.5 yrs.
	Flame Resistant					
	Durable Press					
	Shrink Resistant					
	Grease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Nylon	Nylon	Nylon	Nylon
	% in Yarn		100%	100%	100%	100%
	% Tolerance					
	Staple Length					
	Denier					
	Tenacity		High	High	High	High
	Cross-Section					
	Luster		Bright	Bright	Bright	Bright
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W				
		F				
	Type Yarn	W				
		F				
	Carded or Combed	W				
		F				
	TPI (Min.)	W	5	5	5	5
		F	5	5	5	5
INTENDED USE			Parachute	Parachute	Parachute	Parachute

			MIL-C-43908 Type I	MIL-C-43908 Type II	MIL-C-43473 Type I	MIL-C-43473 Type II	MIL-C-43473 Type III
FABRIC	Generic Name		Various	Various	Rip-Stop	Rip-Stop	Rip-Stop
	Weave		Plain	Plain	Plain	Plain	Plain
	Warp Ends/Inch		40	40			
	Filling Ends/Inch		40	40			
	Weight-Min. Oz./Sq. Yd.		2.0	2.0	1.6	1.6	1.6
	-Max. Oz./Sq. Yd.		2.4	2.4			
	Width						
	Minimum Roll Length		50 Yards	50 Yards	50 Yards	50 Yards	50 Yards
	Minimum Break	W			50	50	50
		F			50	50	50
	Minimum Tear	W			.7	.7	.7
		F			9	9	9
	Maximum Shrinkage	W					
		F					
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?			X	X	X	X
	Printing ?			X		X	X
	Coating ?		X	X	X	X	X
	Fusing ?						
	Dyes Used ?		Acid	Acid	Acid	Acid	Acid
	Coating Used ?		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
	Infrared Reflect ?		X	X	X	X	X
	Odor Test ?		X	X	X	X	X
	Water Repellent ?		X	X	X	X	X
	Hydrostatic Resist ?		X	X	X	X	X
	Stiffness ?		X	X	X	X	X
	Coating Adhesion ?		X	X	X	X	X
	Coating Distribution ?		X	X	X	X	X
	Blocking ?				X	X	X
	Color Matching ?			X	X	X	X
	Labile Sulphur ?			X			
	Resistance to Insectt Repel ?						
	Leakage ?		X	X	X	X	X
	Spray Rating ?		X	X	X	X	X
	Colorfastness ?		X	X	X	X	X
	pH Test ?		X	X	X	X	X
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Nylon	Nylon	Nylon	Nylon	Nylon
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier		200-220	200-220			
	Tenacity						
	Cross-Section						
	Luster		S.D. or Bright	S.D. or Bright			
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W					
		F					
	Type Yarn	W					
		F					
	Carded or Combed	W					
		F					
INTENDED USE			Weather Gear	Weather Gear	Jungle Gear	Jungle Gear	Jungle Gear

			MIL-C-368 Class 1	MIL-C-368 Class 2	MIL-C-368 Class 3	MIL-C-508 Type I	MIL-C-508 Type II
FABRIC	Generic Name		Twill	Twill	Satin	Oxford	Oxford
	Weave		2/1 Right	2/1 Right	5 Harness	Plain	Plain
	Warp Ends/Inch		121	142	180	180	180
	Filling Ends/Inch		67	71	67	76	76
	Weight-Min. Oz./Sq. Yd.		3.7	4.2	4.5	2.9	2.9
	-Max. Oz./Sq. Yd.						
	Width		>41"	>41"	>41"		
	Minimum Roll Length		50 Yards	50 Yards	50 Yards	40 Yards	40 Yards
	Minimum Break	W	100	115	150	220	220
		F	50	55	55	135	135
	Minimum Tear	W					
		F					
	Maximum Shrinkage	W	6.0	6.0	6.0	2.0	2.0
		F	3.0	3.0	3.0	2.0	2.0
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.					1.0	1.0
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?		X	X	X	X	X
	Printing ?					X	X
	Coating ?						
	Fusing ?						
	Dyes Used ?		Direct	Direct	Direct	Acid/Disperse	Acid/Disperse
	Cat[illegible]sed ?						
	Infrared Reflect ?					X	X
	Odor Test ?						
	Wa[illegible] Repellent ?					X	X
	Hydr[illegible]static Resist ?					X	X
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X	X	X	X	X
	Labile Sulphur ?		X	X	X		
	Resistance to Insect Repel ?						
	Leakage ?						
	Spray Rating ?					X	X
	Colorfastness ?		X	X	X	X	X
	pH Test ?		X	X	X	X	X
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Rayon	Rayon	Rayon	Nylon	Nylon
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity						
	Cross-Section					Bright	Bright
	Luster						
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W					
		F					
	Type Yarn	W	Multi-Filament	Multi-Filament	Multi-Filament	Multi-Filament	(STPI)
		F	Multi-Filament	Multi-Filament	Multi-Filament	Multi-Filament	(STPI)
	Carded or Combed	W					
		F					
INTENDED USE			Utility Use, Hats	Coats and Uniforms	Overcoats	Clothing and Equipage	Coating

			MIL-C-7219 Type I	MIL-C-7219 Type II	MIL-C-7219 Type III	MIL-C-44050 Type I	MIL-C-44050 Type II
FABRIC	Generic Name		Duck	Duck	Duck	Plain	Plain
	Weave		Plain	Plain	Plain		
	Warp Ends/Inch		90	78	60	30	34
	Filling Ends/Inch		38	38	15	30	33
	Weight-Min. Oz./Sq. Yd.					9.0	13.5
	-Max. Oz./Sq. Yd.		9.5	8.75	7.25	8.5	14.5
	Width						
	Minimum Roll Length		40 Yards	40 Yards	40 Yards	80-120 Yards	80-120 Yards
	Minimum Break	W					
		F					
	Minimum Tear	W					
		F					
	Maximum Shrinkage	W	2.5	2.5	2		
		F	2	2	2		
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability		5	5	8		
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?						
	Printing ?						
	Coating ?						
	Fusing ?						
	Dyes Used ?						
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?		X	X	X	X	X
	Hydrostatic Resist		X	X	X		
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?		X	X	X		
	Color Matching ?		X	X	X		
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?		X	X	X	X	X
	Colorfastness ?		X	X	X		
	pH Test ?		X	X	X		
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?					X	X
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Nylon	Nylon	Nylon	Aramid	Aramid
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier					1,000	1,500
	Tenacity		High	High	High	> 20 G/Den	> 20 G/Den
	Cross-Section						
	Luster		Bright	Bright	Bright		
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W	Singles	Singles	Singles	Singles	Singles
		F	Singles	Singles	Singles	Singles	Singles
	Type Yarn	W	Flat Filament	Flat Filament	Flat Filament	Flat Filament	Flat Filament
		F	Flat Filament	Spun	Flat Filament	Flat Filament	Flat Filament
	Carded or Combed	W					
		F					
INTENDED USE			Parachute Packs	Parachute Packs	Parachute Packs	Fragmentation and Bullet Protection	Fragmentation and Bullet Protection

			MIL-C-83429 Type I	MIL-C-83429 Type II	MIL-C-19759	MIL-C-43251	MIL-C-43251
FABRIC	Generic Name				Twill		Pile
	Weave		Basket(2x2)	Plain			12/32
	Warp Ends/Inch		90	70			
	Filling Ends/Inch		88	47			
	Weight-Min. Oz./Sq. Yd.		5.0	4.3	7.5		
	-Max. Oz./Sq. Yd.				8.5		
	Width		45"	45"			
	Minimum Roll Length		40 Yards	40 Yards	50 Yards		10 Yards
	Minimum Break	W	100	180	225		
		F	100	100	210		
	Minimum Tear	W	15	12			
		F	15	8			
	Maximum Shrinkage	W	4	4			
		F	1.5	1.5			
	Maximum Elongation	W					
		F					
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?		Nylon Extrusion	Nylon Extrusion			X
	Printing ?						
	Coating ?				X		
	Fusing ?						
	Dyes Used ?						Basic
	Coating Used ?			Chloroprene Rubber			
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?				X		
	Stiffness ?				X		
	Coating Adhesion ?				X		
	Coating Distribution ?				X		
	Blocking ?				X		
	Color Matching ?		X	X		X	
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?		X	X		X	
	pH Test ?		X	X		X	
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?		X	X			
	Heat Resistance ?				X		
	Flame Resistance ?		X	X			
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Aromatic Nylon	Aromatic Nylon	Nylon	Pile-Acrylic	Backing -Cotton, Poly or Acrylic
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length		1 1/2"-2"	1 1/2"-2"			
	Denier		1.5 Den/Filament	1.5 Den/Filament			
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W	24/1	37/2			10/1
		F	24/1	37/2			10/1
	Ply	W	Singles	2-Ply			
		F	Singles	2-Ply			
	Type Yarn	W	Flat Filament	Flat Filament			Spun
		F	Flat Filament	Flat Filament			
	Carded or Combed	W					
		F					
INTENDED USE			Flying Clothes	Flying Clothes	Cold and Wet Weather Clothing		Liners

			MIL-C-43594	MIL-C-29147	MIL-C-29147	MIL-C-43842	MIL-C-87052
FABRIC	Generic Name		Plain	Plain		Oxford	Twill
	Weave					Plain	2/1 Right
	Warp Ends/Inch		62		50	124	67
	Filling Ends/Inch		40		40	46	58
	Weight-Min. Oz./Sq. Yd.		3.4		5.7	5.6	5.5
	-Max. Oz./Sq. Yd.					6	6.5
	Width						60"
	Minimum Roll Length		40 Yds.		40 Yds.	40 Yds.	40 Yds.
	Minimum Break	W	200		120	300	200
		F	125		90	120	150
	Minimum Tear	W			7.5		12
		F			6.5		12
	Maximum Shrinkage	W	2.0		2.5	2.0	2.0
		F	2.0		2.5	2.0	2.0
	Maximum Elongation	W	2.0		2.5	2.0	2.0
		F	2.0		2.5	2.0	2.0
	Maximum Non-Fibrous Mat.		2.0		8.5	1.0	3.0
	Maximum Air Permeability					6.0	
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?				X		
	Printing ?						
	Coating ?						
	Fusing ?						
	Dyes Used ?						
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?		X				
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?				X	X	X
	Labile Sulphur?				X		
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?						
	Colorfastness ?				X	X	X
	pH Test ?		X		X	X	X
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?					X	
	Heat Resistance ?					X	
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Polyester	Polyester	Rayon	Nylon	Polyester
	% in Yarn		100.0	65.0	35.0	100.0	100.0
	% Tolerance			±5.0	±5.0		
	Staple Length					1 1/2"-2"	
	Denier					2/Filament	150
	Tenacity						Regular
	Cross-Section						Octalobal
	Luster						Semi-Dull
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W				22/1	
		F				22/1	
	Ply	W			2-Ply	Singles	
		F			2-Ply or Singles	Singles	
	Type Yarn	W	Flat Mult. Fila.	Spun	Spun	Spun	Tex. Fila.
		F	Flat Mult. Fila.	Spun	Spun	Spun	Tex. Fila.
	Carded or Combed	W					
		F					
INTENDED USE			Interlining		Shirts	Clothing, Seat Covers, Vests	Slacks and Skirts

			MIL-C-12369 Class 1	MIL-C-12369 Class 2	MIL-C-12369 Class 3	MIL-C-51251
FABRIC	Generic Name		Ballistic	Ballistic	Ballistic	Plain
	Weave		2x2 Basket	2x2 Basket	2x2 Basket	
	Warp Ends/Inch		46	46	46	
	Filling Ends/Inch		42	42	42	
	Weight-Min. Oz./Sq. Yd.		13.5	13.5	13.5	
	-Max. Oz./Sq. Yd.		15.0	15.0	15.0	7.0
	Width		48"-49"	48"-49"	48"-49"	
	Minimum Roll Length		80-120 Yds.	80-120 Yds.	80-120 Yds.	100-300 Yds.
	Minimum Break	W	900	900	900	
		F	825	825	825	
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W	3.0	2.0	3.0	
		F	2.0	2.0	2.0	
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Dyeing ?			X	X	
	Printing ?				X	
	Coating ?					X
	Fusing ?					
	Dyes Used ?			Acid	Acid	
	Coating Used ?					Butyl Rubber
	Infrared Reflect ?					X
	Odor Test ?					X
	Water Repellent ?			X	X	X
	Hydrostatic Resist ?					X
	Stiffness ?					X
	Coating Adhesion ?					X
	Coating Distribution ?					X
	Blocking ?					
	Color Matching ?			X	X	
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?			X	X	
	Colorfastness ?			X	X	
	pH Test ?			X	X	
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Reopert					
FIBERS	Types of Fibers		Nylon	Nylon	Nylon	Nylon
	% in Yarn		100.0	100.0	100.0	100.0
	% Tolerance					
	Staple Length					
	Denier		1,050	1,050	1,050	
	Tenacity		High	High	High	
	Cross-Section					
	Luster		Bright	Bright	Bright	
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W				
		F				
	Ply	W	Singles	Singles	Singles	
		F	Singles	Singles	Singels	
	Type Yarn	W	Flat Filament	Flat Filament	Flat Filament	
		F	Flat Filament	Flat Filament	Flat Filament	
	Carded or Combed	W				
		F				
INTENDED USE			Ballistics Cloth	Ballistics Cloth	Ballistics Cloth	CBR Protective Hoods

			MIL-C-41820 Type I	MIL-C-41820 Type I	MIL-C-41820 Type II	MIL-C-41820 Type II	MIL-C-41820 Type III	MIL-C-41820 Type III
FABRIC	Generic Name		Gabardine	Gabardine	Gabardine	Gabardine	Gabardine	Gabardine
	Weave		2/1 Right	2/1 Right	2/1 Right	2/1 Right	2/1 Right	2/1 Right
	Warp Ends/Inch		110		110		92	
	Filling Ends/Inch		52		62		42	
	Weight-Min. Oz./Sq. Yd.		6.0		6.4		8.0	
	-Max. Oz./Sq. Yd.							
	Width							
	Minimum Roll Length		40 Yds.	40 Yds.	40 Yds.	40 Yds.	40 Yds.	40 Yds.
	Minimum Break	W	210		210		280	
		F	90		105		120	
	Minimum Tear	W						
		F						
	Maximum Shrinkage	W	3.5		2.5		3.5	
		F	2.0		1.5		2.0	
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.		2.0		2.0		2.0	
	Maximum Air Permeability							
Processes:	Singeing ?							
	Bleaching ?							
	Mercerizing ?							
	Dyeing ?		X		X		X	
	Printing ?							
	Coating ?							
	Fusing?							
	Dyes Used ?		Vats/Disperse	Vats/Disperse	Vats/Disperse	Vats/Disperse	Vats/Disperse	Vats/Disperse
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?							
	Hydrostatic Resist ?							
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X		X		X	
	Labile Sulphur?		X		X		X	
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?		X		X		X	
	pH Test ?		X		X		X	
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Polyester	Rayon	Polyester	Rayon	Polyester	Rayon
	% in Yarn		70.0	30.0	70.0	30.0	70.0	30.0
	% Tolerance		±5.0	±5.0	±5.0	±5.0	±5.0	±5.0
	Staple Length							
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool							
	Grade Wool							
	Treatments							
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W	40/2	40/2	40/2	40/2	40/2	40/2
		F	40/2	40/2	40/2	40/2	40/2	40/2
	Ply	W	2-Ply	2-Ply	2-Ply	2-Ply	2-Ply	2-Ply
		F	2-Ply	2-Ply	2-Ply	2-Ply	2-Ply	2-Ply
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W						
		F						
INTENDED USE			Clothing	Clothing	Clothing	Clothing	Clothing	Clothing

			MIL-C-43525 Type I	MIL-C-43525 Type I	MIL-C-43525 Type II	MIL-C-43525 Type II
FABRIC	Generic Name			Satin		Satin
	Weave			5-Harness		8-Harness
	Warp Ends/Inch			275		198
	Filling Ends/Inch			95		48
	Weight-Min. Oz./Sq. Yd.			9.0		8.2
	-Max. Oz./Sq. Yd.					
	Width					
	Minimum Roll Length			50 Yds.		50 Yds.
	Minimum Break	W		85		140
		F		100		80
	Minimum Tear	W				
		F				
	Maximum Shrinkage	W		4.0		4.0
		F		2.0		2.0
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Dyeing ?			X		X
	Printing ?					
	Coating ?					
	Fusing ?					
	Dyes Used ?					
	Coating Used ?					
	Infrared Reflect ?					
	Odor Test ?					
	Water Repellent ?					
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?			X		X
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?			X		X
	pH Test ?			X		X
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Acetate	Rayon	Rayon	Cotton
	% in Yarn		Warp	Filling	Warp	Filling
	% Tolerance					
	Staple Length					
	Denier					
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W	100 Denier		150 Denier	
		F		14/1		6/1
	Ply	W				
		F		Singles		Singles
	Type Yarn	W	Multi Filament		Multi Filament	
		F		Spun		Spun
	Carded or Combed	W				
		F				Combed
INTENDED USE			Women's Overcoat Lining	Women's Overcoat Lining	Women's Overcoat Lining	Women's Overcoat Lining

			MIL-C-41820 Type I	MIL-C-41820 Type I	MIL-C-41820 Type II	MIL-C-41820 Type II	MIL-C-41820 Type III	MIL-C-41820 Type III
FABRIC	Generic Name		Gabardine	Gabardine	Gabardine	Gabardine	Gabardine	Gabardine
	Weave		2/1 Right	2/1 Right	2/1 Right	2/1 Right	2/1 Right	2/1 Right
	Warp Ends/Inch		110		110		92	
	Filling Ends/Inch		52		62		42	
	Weight-Min. Oz./Sq. Yd.		6.0		6.4		8.0	
	-Max. Oz./Sq. Yd.							
	Width							
	Minimum Roll Length		40 Yds.	40 Yds.	40 Yds.	40 Yds.	40 Yds.	40 Yds.
	Minimum Break	W	210		210		230	
		F	90		105		120	
	Minimum Tear	W						
		F						
	Maximum Shrinkage	W	3.5		2.5		3.5	
		F	2.0		1.5		2.0	
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.		2.0		2.0		2.0	
	Maximum Air Permeability							
Processes:	Singeing ?							
	Bleaching ?							
	Mercerizing ?							
	Dyeing ?		X		X		X	
	Printing ?							
	Coating ?							
	Fusing?							
	Dyes Used ?		Vats/Disperse	Vats/Disperse	Vats/Disperse	Vats/Disperse	Vats/Disperse	Vats/Disperse
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?							
	Hydrostatic Resist ?							
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X		X		X	
	Labile Sulphur?		X		X		X	
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?		X		X		X	
	pH Test ?		X		X		X	
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Polyester	Rayon	Polyester	Rayon	Polyester	Rayon
	% in Yarn		70.0	30.0	70.0	30.0	70.0	30.0
	% Tolerance		±5.0	±5.0	±5.0	±5.0	±5.0	±5.0
	Staple Length							
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool							
	Grade Wool							
	Treatments							
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W	40/2	40/2	40/2	40/2	40/2	40/2
		F	40/2	40/2	40/2	40/2	40/2	40/2
	Ply	W	2-Ply	2-Ply	2-Ply	2-Ply	2-Ply	2-Ply
		F	2-Ply	2-Ply	2-Ply	2-Ply	2-Ply	2-Ply
	Type Yarn	W	Spun	Spun	Spun	Spun	Spun	Spun
		F	Spun	Spun	Spun	Spun	Spun	Spun
	Carded or Combed	W						
		F						
INTENDED USE			Clothing	Clothing	Clothing	Clothing	Clothing	Clothing

			MIL-C-43128	MIL-C-21852 Type I	MIL-C-21852 Type II	MIL-C-21852 Type III	MIL-C-21852 Type IV
FABRIC	Generic Name		Plain	Taffeta	Taffeta	Taffeta	Taffeta
	Weave			Plain	Plain	Plain	Plain
	Warp Ends/Inch		80	100	95	106	108
	Filling Ends/Inch		56	68	65	92	71
	Weight-Min. Oz./Sq. Yd.		3.3			2.0	1.75
	-Max. Oz./Sq. Yd.		4.8	1.2	1.5	2.3	2.05
	Width						
	Minimum Roll Length		40 Yds.	75 Yds.	75 Yds.	40 Yds.	40 Yds.
	Minimum Break	W	275	80	75	110	110
		F	225	55	75	95	85
	Minimum Tear	W		4	4	3.6	5
		F		4	6	3.0	3.5
	Maximum Shrinkage	W	3.0	2.0	2.0	2.0	2.0
		F	2.0	2.0	2.0	2.0	2.3
	Maximum Elongation	W	3.0	2.0	2.0	2.3	2.3
		F	2.0	2.0	2.3	2.3	2.3
	Maximum Non-Fibrous Mat.		2.0	2.0	2.0	1.3	1.3
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?		X	X	X	X	X
	Printing ?						
	Coating ?						
	Fusing ?						
	Dyes Used ?		Acid	Acid	Acid	Acid	Acid
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?		X				
	Hydrostatic Resist ?						
	Stiffness ?		X	X	X	X	X
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X	X	X	X	X
	Labile Sulphur?		X				
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?		X				
	Colorfastness ?		X	X	X	X	X
	SO Test ?		X	X	X	X	X
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistant ?			X	X	X	X
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Repeats						
FIBERS	Types of Fibers		Nylon	Nylon	Nylon	Nylon	Nylon
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity			Regular	Regular	Regular	Regular
	Cross-Section						
	Luster		Bright	Semi-Dull	Semi-Dull	Semi-Dull	Semi-Dull
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W		50 Denier	50 Denier	70 Denier	70 Denier
		F		50 Denier	70 Denier	70 Denier	70 Denier
	Ply	W					
		F					
	Type Yarn	W	Multi Filament	Multi Filament	Multi Filament	Multi Filament	Multi Filament
		F	Multi Filament	Multi Filament	Multi Filament	Multi Filament	Multi Filament
	Cordes or Combed	W					
		F					
INTENDED USE			Hammocks, Hammocks	Parachutes and Linings	Parachutes and Linings	Parachutes and Linings	Parachutes and Linings

			MIL-C-81814	MIL-C-43234	MIL-C-44043 Types 1, 2	MIL-C-44043 Type 3
FABRIC	Generic Name		Twill	Plain	Plain	Plain
	Weave		2/2 Right			
	Warp Ends/Inch		98	60	33	33
	Filling Ends/Inch		90	34	32	32
	Weight-Min. Oz./Sq. Yd.		5.2	4.8	7.7	7.7
	-Max. Oz./Sq. Yd.		5.6		8.3	8.3
	Width				48"-49"	48"-49"
	Minimum Roll Length		40 Yds.	40 Yds.	80-120 Yds.	80-120 Yds.
	Minimum Break	W	185	75		
		F	160	55		
	Minimum Tear	W	13			
		F	13			
	Maximum Shrinkage	W	2.0	4.5	3.0	3.0
		F	2.0	3.5	2.0	2.0
	Maximum Elongation	W				
		F				
	Maximum Non-Fibrous Mat.		1.0			
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Dyeing ?			X	X	X
	Printing ?					X
	Coating ?					
	Fusing ?					
	Dyes Used ?				Acids	Acids
	Coating Used ?					
	Infrared Reflect ?				X	X
	Odor Test ?					
	Water Repellent ?				X	X
	Hydrostatic Resist ?					
	Stiffness ?					
	Coating Adhesion ?					
	Coating Distribution ?					
	Blocking ?					
	Color Matching ?		X	X	X	X
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?		X	X	X	X
	pH Test ?		X	X	X	X
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?		X			
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers		Aramid	Acrylic	Nylon	Nylon
	% in Yarn		100.0	100.0	100.0	100.0
	% Tolerance					
	Staple Length					
	Denier		2/Filament	1/Filament		
	Tenacity				Extra-High	Extra-High
	Cross-Section					
	Luster				Bright	Bright
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count	W			840 Den.	840 Den.
		F			840 Den.	840 Den.
	Ply	W	Singles	Singles		
		F	Singles	Singles		
	Type Yarn	W	Filament	Spun	Multi Filament	Multi Filament
		F	Filament	Spun	Multi Filament	Multi Filament
	Carded or Combed	W				
		F				
INTENDED USE			Flight Clothing	Insulating Cap	Body Armor	Body Armor
VOLUME			165,423	90,900	90,984	

		MIL-C-20696 Type I	MIL-C-20696 Type II	MIL-C-20696 Type III/Class 1	MIL-C-20696 Type III/Class 2	MIL-C-20696 Type III/Class 3	MIL-C-20696 Type III/Class 5
FABRIC	Generic Name	Plain	Plain	Plain	Plain	Plain	Plain
	Weave	Plain	Plain	Plain	Plain	Plain	Plain
	Warp Ends/Inch	18	22	50	50	50	50
	Filling Ends/Inch	18	21	45	45	45	45
	Weight-Min. Oz./Sq. Yd.	2.1	4.8				
	-Max. Oz./Sq. Yd.	2.5	5.4	7.25	7.25	7.25	7.25
	Width	> 39"	> 39"	> 39"	> 39"	> 39"	> 39"
	Minimum Roll Length	90-125 Yds.	90-125 Yds.	90-125 Yds.	90-125 Yds.	90-125 Yds.	90-125 Yds.
	Minimum Break W	115	225	325	325	325	325
	F	115	225	275	275	275	275
	Minimum Tear W			20	20	20	20
	F			20	20	20	20
	Maximum Shrinkage W						
	F						
	Maximum Elongation W						
	F						
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability						
PROCESSES:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?						
	Printing ?			X	X	X	X
	Coating ?						
	Fusing?						
	Dyes Used ?			Chloroprene	Vinyl Chloride Polymer	Chloroprene	Nitrile Rubber
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?			X	X	X	X
	Hydrostatic Resist ?	X	X	X	X	X	X
	Stiffness ?			X	X	X	X
	Coating Adhesion ?			X	X	X	X
	Coating Distribution ?			X	X	X	X
	Blocking ?			X	X	X	X
	Color Matching ?	X	X	X	X		
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?	X	X	X	X	X	X
	Colorfastness ?	X	X	X	X	X	X
	Oil Test ?	X	X	X	X		
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers	Nylon	Nylon	Nylon	Nylon	Nylon	Nylon
	% in Yarn	100.0	100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity	High	High	High	High	High	High
	Cross-Section						
	Luster	Bright	Bright	Bright	Bright	Bright	Bright
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count W						
	F						
	Ply W	Singles	Singles	Singles	Singles	Singles	Singles
	F	Singles	Singles	Singles	Singles	Singles	Singles
	Type Yarn W	Filament	Filament	Filament	Filament	Filament	Filament
	F	Filament	Filament	Filament	Filament	Filament	Filament
	Cordes or Combed W						
	F						
INTENDED USE		Covers and Shelters	Covers and Shelters	Survival Containers	Survival Containers	Survival Containers	Survival Containers

			MIL-C-21108 Type I	MIL-C-21108 Type II	MIL-C-19002	MIL-C-3395 Type I	MIL-C-3395 Type II
FABRIC	Generic Name		Twill	Plain	Twill	Netting	Netting
	Weave		Rip-Stop	Plain	2/1 Right	Leno Plain	Warp Knit
	Warp Ends/Inch		80	22		55	55
	Filling Ends/Inch		80	22		55	55
	Weight-Min. Oz./Sq. Yd.		2.4	4.5	3 or 9		
	-Max. Oz./Sq. Yd.		2.7	5.5	3.3 10.7	1.6	2.0
	Width				Various		
	Minimum Roll Length		50 Yds.	50 Yds.		100 Yds.	100 Yds.
	Minimum Break	W	115	225		50	50
		F	115	225		50	50
	Minimum Tear	W	8	45			
		F	8	38			
	Maximum Shrinkage	W	2.0	2.0		2.0	2.0
		F	2.0	2.0		2.0	2.0
	Maximum Elongation	W	2.0	2.0			
		F	2.0	2.0			
	Maximum Non-Fibrous Mat.		1.0	1.0			
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?					X	X
	Printing ?						
	Coating ?				X		
	Fusing ?						
	Dyes Used ?						
	Coating Used ?				Polychloroprene		
	Infrared Reflect ?						
	Odor Test ?				X		
	Water Repellent ?				X		
	Hydrostatic Resist ?				X		
	Stiffness ?				X		
	Coating Adhesion ?				X		
	Coating Distribution ?				X		
	Blocking ?				X		
	Color Matching ?				X	X	X
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?				X		
	Spray Rating ?				X		
	Colorfastness ?				X	X	X
	pH Test ?		X	X	X	X	X
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Nylon	Nylon	Nylon	Nylon	Nylon
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length						
	Denier						
	Tenacity		High	High			
	Cross-Section						
	Luster		Bright	Bright		Semi-Dull	Semi-Dull
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W	840 Den	840 Den		70 Den	70 Den
		F	840 Den	840 Den		70 Den	70 Den
	Ply	W					
		F					
	Type Yarn	W				Multi Filament	Multi Filament
		F				Multi Filament	Multi Filament
	Carded or Combed	W					
		F					
INTENDED USE			Raft Bottoms	Raft Bottoms	Pneumatic Life Preservers	Tentage	Tentage

			MIL-C-43874	MIL-C-43375	MIL-C-43204 Type	MIL-C-43204 Type II	MIL-C-43204 Type III
FABRIC	Generic Name		Plain	Duck	Spacer	Spacer	Spacer
	Weave			Plain	3-warp	Honeycomb	3-warp
	Warp Ends/Inch		66	56			
	Filling Ends/Inch		42	28			
	Weight-Min Oz./Sq. Yd.		9.5	12.5	9.5	15	5.25
	-Max. Oz./Sq. Yd.		11.5		[illegible]	19.5	10.25
	Width		44"		58"	58"	59"
	Minimum Roll Length		40 Yds.	80 Yds.	35 Yds.	35 Yds.	35 Yds.
	Minimum Break	W	170	800	[illegible]	175	110
		F	165	700	200	100	180
	Minimum Tear	W	10				
		F	10				
	Maximum Shrinkage	W		2.0	4.0	8.5	8.5
		F		2.0	2.0	6.2	2.0
	Maximum Elongation	W		2.0	4.0	8.5	8.5
		F		2.0	2.0	6.2	2.0
	Maximum Non-Fibrous Mat.		0.5				
	Maximum Air Permeability		6.0	3.0			
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?			X			
	Printing ?						
	Coating ?						
	Fusing ?						
	Dyes Used ?			Acids			
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?		X	X			
	Hydrostatic Resist ?						
	Stiffness ?		X				
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?		X	X			
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Rating ?		X	X			
	Colorfastness ?		X	X			
	pH Test ?		X	X			
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistant ?		X				
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Modacrylic	Nylon	Olefin	Olefin	Olefin
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length		1.75"-2"				
	Denier		1.7-2.8	840	840	840	940
	Tenacity						
	Cross-Section						
	Luster			Bright	Bright	Bright	Bright
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W	12/1				
		F	8/1				
	Ply	W	Singles	3-Ply	3-Ply	3-Ply	3-Ply
		F	Singles	3-Ply	3-Ply	3-Ply	3-Ply
	Type Yarn	W	Spun	Multi Filament	Multi Filament	Multi Filament	Multi Filament
		F	Spun	Multi Filament	Multi Filament	Multi Filament	Multi Filament
	Carded or Combed	W					
		F					
INTENDED USE			Tents	Canteen Covers	Canteen Covers	Canteen Covers	Canteen Covers

			MIL-C-40039	MIL-C-12189	MIL-C-43774	MIL-C-43734 Class 1	MIL-C-43734 Class 2
FABRIC	Generic Name		Twill	Twill	Plain	Duck	Duck
	Weave		2/1 Right	2/1 Right	Plain	Plain	Plain
	Warp Ends/Inch					35	35
	Filling Ends/Inch					28	28
	Weight-Min. Oz./Sq. Yd.		6	11	3.0	8.5	8.5
	-Max. Oz./Sq. Yd.		7.3	13.5		9.5	9.5
	Width						
	Minimum Roll Length		150-175 Yds.	180-220 Yds.	40 Yds.	40 Yds.	40 Yds.
	Minimum Break	W	90	180	80	500	500
		F	80	170	80	300	300
	Minimum Tear	W					
		F					
	Maximum Shrinkage	W			4.0		
		F			2.0		
	Maximum Elongation	W			4.0		
		F			2.0		
	Maximum Non-Fibrous Mat.						
	Maximum Air Permeability					10	10
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?					X	X
	Dyeing ?					X	X
	Printing ?						Roller or Screen
	Coating ?		X	X			
	Fusing ?						
	Dyes Used ?					Acid	Acid
	Coating Used ?		Vinyl	Butyl			
	Infrared Reflect ?					X	X
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?		X	X			
	Stiffness ?		X	X			
	Coating Adhesion ?		X	X			
	Coating Distribution ?		X	X			
	Blocking ?		X	X			
	Color Matching ?		X	X	X	X	X
	Labile Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?		X	X			
	Spray Rating ?		X	X			
	Colorfastness ?		X	X	X	X	X
	pH Test ?		X	X	X	X	X
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?				X		
	Heat Resistance ?						
	Flame Resistance ?				X		
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers		Nylon	Nylon	Aramid	Nylon	Nylon
	% in Yarn		100.0	100.0	100.0	100.0	100.0
	% Tolerance						
	Staple Length				1 1/2"-2"		
	Denier				1.5-2	1,000	1,000
	Tenacity						
	Cross-Section						
	Luster						
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count	W					
		F					
	Ply	W			Singles	Singles	Singles
		F			Singles	Singles	Singles
	Type Yarn	W			Spun	Bulked Continuous	Bulked Continuous
		F			Spun	Bulked Continous	Bulked Continuous
	Carded or Combed	W					
		F					
INTENDED USE			Ponchos	Impermeable Clothing	Cover Fabric	Shoes	Frequent Vests

KNITS

			MIL-C-3739 Type I/Class 1	MIL-C-3739 Type I/Class 2 Size 1	MIL-C-3739 Type I/Class 2 Size 2	MIL-C-3739 Type I/Class 3	MIL-C-3739 Type III	MIL-C-3739 Type IV
FABRIC	Generic Name		1 x 1 Rib	1 x 1 Rib	1 x 1 Rib	1 x 1 Rib	1 x 1 Rib	1 x 1 Rib
	Weave		Circular Knit	Circular Knit	Circular Knit	Circular Knit	Circular Knit	Circular Knit
	Wales/Inch							
	Courses/Inch							
	Weight-Min. Oz./Sq. Yd.		15.0	11.0	11.0	11.0	11.0	12.5
	-Max. Oz./Sq. Yd.							
	Width							
	Minimum Roll Length		40 Yards	40 Yards	40 Yards	40 Yards	40 Yards	40 Yards
	Minimum Break	W						
		F						
	Minimum Tear	W						
		F						
	Maximum Shrinkage	W						
		F						
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.		1.0	1.0	1.0	1.0	1.0	1.0
	Maximum Air Permeability							
Processes:	Singeing ?							
	Bleaching ?							
	Mercerizing ?							
	Dyeing ?		Stock					
	Printing ?							
	Coating ?							
	Fusing?							
	Dyes Used ?							
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?							
	Hydrostatic Resist ?							
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X	X	X	X	X	X
	Labile Sulphur?							
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?		X	X	X	X	X	X
	pH Test ?		X	X	X	X	X	X
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?		X	X	X	X	X	X
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Wool	Wool	Wool	Wool	Polyester	Aramid
	% in Yarn		100.0	100.0	100.0	100.0	100.0	100.0
	% Tolerance		-5.0	-5.0	-5.0			
	Staple Length							1.5"-2" ±.5
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool		Fleece or Pulled	Fleece or Pulled	Fleece or Pulled	Fleece or Pulled	Semi-dull	
	Grade Wool		<48's	>56's	>56's	>56's		
	Treatments		Chlorination	Chlorination	Chlorination	Chlorination		
	Type Aramid							
	Carbonization Temp.							
	Treatments							Autoclave
YARNS	Cotton Count	W					150 Den.x8 Ends	50/1
		F						
	Ply	W	1-Ply	2-Ply	2-Ply	2-Ply	3-Ply	2-Ply
		F						
	Type Yarn	W	Spun	Spun	Spun	Spun	Text. Filament	Spun
		F						
	Carded or Combed	W	Combed	Combed	Combed	Combed		
		F						
INTENDED USE			Cuffs, etc.	Cuffs, etc.	Cuffs, etc.	Cuffs, etc.	Cuffs, etc.	Cuffs, etc.

		MIL-C-43858	MIL-C-17157	MIL-C-17195 Type I	MIL-C-17195 Type II	MIL-C-17195 Type III
FABRIC	Generic Name	28 Gauge	Waffle Knit	Fleece	Fleece	Fleece
	Weave	Tricot Knit	Raschel	Warp	Warp	Warp
	Wales/Inch	37				
	Courses/Inch	19				
	Weight-Min. Oz./Sq. Yd.	1.3	10 ?	9.5	5	9
	-Max. Oz./Sq. Yd.	2.2	12.1	11.5	5.8	10
	Width	50"-60"				
	Minimum Roll Length	35-110 Yards		15 Yards	15 Yards	15 Yards
	Minimum Break W					
	F					
	Minimum Tear W					
	F					
	Maximum Shrinkage W		12.0			
	F					
	Maximum Elongation W		12.3			
	F					
	Maximum Non-Fibrous Mat.		3.0			
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?					
	Mercerizing ?					
	Dyeing ?	X		X	X	X
	Printing ?					
	Coating ?	X				
	Fusing?					
	Dyes Used ?					
	Coating Used ?	Foam				
	Infrared Reflect ?					
	Odor Test ?	X				
	Water Repellent ?					
	Hydrostatic Resist ?	X				
	Stiffness ?					
	Coating Adhesion ?	X				
	Coating Distribution ?	X				
	Blocking ?	X				
	Color Matching ?	X	X	X	X	X
	Labile Sulphur?					
	Resistant to Insect Repel ?					
	Leakage ?					
	Spray Rating ?					
	Colorfastness ?			X	X	X
	pH Test ?	X	X	X	X	X
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?	X				
	Durable Press					
	Shrink Resistant					
	Crease Resistant					
	Soil Release Treatment					
	Antistatic Finish					
	Napped					
FIBERS	Types of Fibers	Nylon	Cotton	Nylon	Nylon	Nylon
	% in Yarn	100.0	100.0	100.0	100.0	100.0
	% Tolerance					
	Staple Length					
	Denier			200/70	70/70	200/100
	Tenacity					
	Cross-Section					
	Luster					
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count W	40 Den.	18/1-22/1			
	F					
	Ply W		Singles			
	F					
	Type Yarn W		Spun	Cont. Filament	Cont. Filament	Cont. Filament
	F					
	Carded or Combed W		Combed			
	F					
INTENDED USE		Chemical Laminate Protection	Cold Weather Underwear	Linings	Linings	Linings

		MIL-C-43938	MIL-C-43358	MIL-C-43359	MIL-C-43247 Class 1	MIL-C-43247 Class 2	MIL-C-43 Class
FABRIC	Generic Name	Linen Look	Tricot		Tubular	Tubular	Tubular
	Wales/Inch	warp	warp		Circular	Circular	Circular
	Courses/Inch	23	40		30	23	15
	Filling Ends/Inch	38	47		25	40	28
	Weight-Min. Oz./Sq. Yd.	6.8	5		6.5	10	10
	-Max. Oz./Sq. Yd.	7.2	6.5		7.5	11	11.5
	Width	60"					
	Minimum Roll Length	50 Yards	40 Yards		20 Yards	20 Yards	20 Yards
	Minimum Break W						
	F						
	Minimum Tear W						
	F						
	Maximum Shrinkage W	2.5	1.0		2	2	[illegible]
	F	2.5	4.0		3	3	[illegible]
	Maximum Elongation W	1.0	3.0		2	2	[illegible]
	F	1.0	4.0		3	3	[illegible]
	Maximum Non-Fibrous Mat.		2.0				
	Maximum Air Permeability						
Processes:	Singeing ?						
	Bleaching ?						
	Mercerizing ?						
	Dyeing ?				X	X	X
	Printing ?						
	Coating ?						
	Fusing?						
	Dyes Used ?				Acids	Acids	Acids
	Coating Used ?						
	Infrared Reflect ?						
	Odor Test ?						
	Water Repellent ?						
	Hydrostatic Resist ?						
	Stiffness ?						
	Coating Adhesion ?						
	Coating Distribution ?						
	Blocking ?						
	Color Matching ?	X	X		X	X	
	Insoluble Sulphur?						
	Resistant to Insect Repel ?						
	Leakage ?						
	Spray Painting						
	Colorfastness ?	X	X		X	X	
	pH Test ?	X	X		X	X	
	Mildew Resistance ?						
	Resin Finish ?						
	Ballistic Resistance ?						
	Antistatic ?						
	Heat Resistance ?						
	Flame Resistance ?						
	Durable Press						
	Shrink Resistant						
	Crease Resistant						
	Soil Release Treatment						
	Antistatic Finish						
	Napped						
FIBERS	Types of Fibers	Polyester	Nylon	Triacetate	Nylon	Nylon	Nylon
	% in Yarn	100.0	50.0	50.0	100.0	100.0	100
	% Tolerance		±5	±5			
	Denier						
	Tenacity	Regular	Regular				
	Cross-section						
	Luster	Semi-dull	Semi-dull				
	Type Wool						
	Grade Wool						
	Treatments						
	Type Aramid						
	Carbonization Temp.						
	Treatments						
YARNS	Cotton Count W						
	F						
	Ply W						
	F						
	Type Yarn W	Tex. & Non-Tex. Filament	Multifilament	Multifilament			
	F						
	Twisted or Crimped W						
	F						
INTENDED USE		Women's Uniforms	Shirting	Shirting		Coats	Cap Liner
VOLUME		409,465	175,107			119,386	

		MIL-C-43983	MIL-C-83378	MIL-C-41871	MIL-C-40006 Type I	MIL-C-40006 Type II
FABRIC	Generic Name	Rib	Jersey	Raschel	Simplex Knitted	Simplex Knitted
	Above					
	Wales/Inch	28		20	40	44
	Courses/Inch	36		29	42	40
	Weight-Min. Oz./Sq. Yd.	5.5	2.2	10.5	9.5	7.5
	-Max. Oz./Sq. Yd.		2.5			
	Width	60"			38"	38"
	Minimum Roll Length	50 Yards			35 Yards	35 Yards
	Minimum Break W					
	F					
	Minimum Tear W					
	F					
	Maximum Shrinkage W	3		1.3		
	F	6		1.3		
	Maximum Elongation W	1		1.3		
	F	1		1.3		
	Maximum Non-Fibrous Mat.					
	Maximum Air Permeability					
Processes:	Singeing ?					
	Bleaching ?				X	X
	Mercerizing ?					
	Dyeing ?	X	X			X
	Printing ?					
	Coating ?		X			
	Fusing?					
	Dyes Used ?					
	Coating Used ?		Polychloroprene			
	Infrared Reflect ?					
	Odor Test ?	X	X			
	Water Repellent ?		X			
	Hydrostatic Resist ?		X			
	Stiffness ?		X			
	Coating Adhesion ?		X			
	Coating Distribution ?		X			
	Blocking ?		X			
	Color Matching ?	X	X	X	X	X
	Labile Solvent?					
	Resistant to Insect Repel ?					
	Leakage ?		X			
	Spray Rating ?		X			
	Colorfastness ?	X	X	X	X	X
	UV Test ?	X	X	X	X	X
	Mildew Resistance ?					
	Resin Finish ?					
	Ballistic Resistance ?					
	Antistatic ?					
	Heat Resistance ?					
	Flame Resistance ?					
	Durable Press					
	Shrink Resistance					
	Soil Release Treatment					
	Antistatic Finish					
	Weapon					
FIBERS	Types of Fibers	Polyester	Nylon	Nylon	Cotton	Cotton
	% in Yarn	100.0	100.0	100.0	100.0	100.0
	% Tolerance					
	Staple Length					
	Denier	150				
	Tenacity	Regular				
	Cross-Section					
	Luster	Semi-dull				
	Type Wool					
	Grade Wool					
	Treatments					
	Type Aramid					
	Carbonization Temp.					
	Treatments					
YARNS	Cotton Count W					
	F					
	Ply W				Singles	Singles
	F				Singles	Singles
	Type Yarn W	Textured		Multifilament	Spun	Spun
	F				Spun	Spun
	Carded or Combed W				Combed	Combed
	F				Combed	Combed
INTENDED USE		Women's Uniforms	Protective Clothing	Front Stiffener in Field Cap	Sleeve Scarves etc.	Sleeve Scarves etc.

		MIL-C-4590	MIL-C-4590	MIL-C-43826	MIL-C-43752
FABRIC	Generic Name	Pile	Pile	Pile	
	Above	1/2 ± 1/16	1/2 ± 1/16		
	Wales/Inch				
	Courses/Inch				
	Weight-Min. Oz./Sq. Yd.	26	27	25.3	.4
	Max. Oz./Sq. Yd.				.6
	Width			53 1/2" - 54 1/2"	
	Minimum Roll Length			15 ± 1/2 Yd	50 Yards
	Minimum Break #				
	#				
	Minimum Tear #				
	#				
	Maximum Shrinkage #				
	#				
	Maximum Elongation %				
	#				
	Maximum Non-Fibrous Mat.				
	Maximum Air Permeability				
Processes:	Singeing ?				
	Bleaching ?				
	Mercerizing ?				
	Dyeing ?				
	Printing ?				
	Coating ?				
	Fusing?				
	Dyes Used ?				
	Coating Used ?				
	Infrared Reflect ?				
	Odor Test ?				
	Water Repellent ?			X	
	Hydrostatic Resist ?			X	
	Stiffness ?	X	X	X	
	Coating Adhesion ?				
	Coating Distribution ?				
	Blocking ?	X	X	X	
	Color Matching ?	X	X	X	X
	Labile Sulphur?				
	Resistant to Insect Repel ?				
	Leakage ?				
	Spray Rating ?				
	Color-Fastness ?	X	X	X	X
	Oil Test ?			X	
	Mildew Resistance ?				
	Resin Finish ?				
	Ballistic Resistance ?				
	Antistatic ?				
	Heat Resistance ?				
	Flame Resistance ?				
	Durable Press				
	Shrink Resistant				
	Crease Resistant				
	Soil Release Treatment				
	Antistatic Finish				
	Napped				
FIBERS	Types of Fibers	Acrylic	Acrylonitrile Copolymer	Modacrylic	Nylon
	% in Yarn	100	100	100	100
	% Tolerance				
	Staple Length			4 1/2"	
	Denier	6 or 7	6	40	
	Tenacity				
	Cross-Section				
	Luster				Semi-dull
	Type Wool				
	Grade Wool				
	Treatments				
	Type Aramid				
	Carbonization Temp.				
	Treatments				
YARNS	Cotton Count #				
	#				
	Ply #				
	#				
	Type Yarn #	Spun	Spun	Spun	Monofilament
	#	Spun	Spun	Spun	
	Twists or Cords #				
	#				
INTENDED USE		Flight Clothing Lining	Flight Clothing Lining	Arctic Clothing	Netting

			MIL-C-29365	MIL-C-29365	MIL-C-43836A Type I/Class 1	MIL-C-43836A Type I/Class 2	MIL-C-43836A Type II	MIL-C-43836A Type II
FABRIC	Generic Name		Non-Woven		Non-Woven Bonded	Non-Woven	Non-Woven Bonded	Non-Woven
	Weave							
	Warp Ends/Inch							
	Filling Ends/Inch							
	Weight-Min. Oz./Sq. Yd.		1.7					
	-Max. Oz./Sq. Yd.		2.2					
	Width		35"					
	Minimum Roll Length							
	Minimum Break	W	3.0					
		F						
	Minimum Tear	W						
		F						
	Maximum Shrinkage	W	1.0					
		F						
	Maximum Elongation	W						
		F						
	Maximum Non-Fibrous Mat.							
	Maximum Air Permeability							
Processes:	Singeing ?							
	Bleaching ?							
	Mercerizing ?							
	Dyeing ?							
	Printing ?							
	Coating ?							
	Fusing ?		X					
	Dyes Used ?							
	Coating Used ?							
	Infrared Reflect ?							
	Odor Test ?							
	Water Repellent ?							
	Hydrostatic Resist ?							
	Stiffness ?							
	Coating Adhesion ?							
	Coating Distribution ?							
	Blocking ?							
	Color Matching ?		X					
	Labile Sulphur?							
	Resistant to Insect Repel ?							
	Leakage ?							
	Spray Rating ?							
	Colorfastness ?		X					
	pH Test ?							
	Mildew Resistance ?							
	Resin Finish ?							
	Ballistic Resistance ?							
	Antistatic ?							
	Heat Resistance ?							
	Flame Resistance ?							
	Durable Press							
	Shrink Resistant							
	Crease Resistant							
	Soil Release Treatment							
	Antistatic Finish							
	Napped							
FIBERS	Types of Fibers		Polyester	Nylon	Polyester	Polester	Nylon	Rayon
	% in Yarn		50.0	50.0	100.0	100.0	80.0	20.0
	% Tolerance		±5	±5				
	Staple Length				Continuous Filament			
	Denier							
	Tenacity							
	Cross-Section							
	Luster							
	Type Wool							
	Grade Wool							
	Treatments							
	Type Aramid							
	Carbonization Temp.							
	Treatments							
YARNS	Cotton Count	W						
		F						
	Ply	W						
		F						
	Type Yarn	W						
		F						
	Carded or Combed	W						
		F						
INTENDED USE			Interlining		Interlining	Interlining	Interlining	Interlining

APPENDIX G. TEXTILE COMPONENT PEACETIME DEMAND (SCENARIO A) BY SPECIFICATION

KURT SALMON ASSOCIATES
SCENARIO B

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SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
C-F-208	1,073	760	1,070	1,281	1,427	1,460	1,481
C-T-301	11,064	522	801	828	845	823	810
CC-C-467	504	312	458	530	547	540	532
CCC-C-41	24,174	16,159	22,506	27,678	30,782	31,455	31,488
CCC-C-418	3,852,038	2,784,489	3,045,637	4,710,107	4,954,482	4,944,776	4,927,471
CCC-C-426	264,566	194,003	280,580	329,802	348,308	347,610	344,118
CCC-C-428	526	21	31	35	39	40	41
CCC-C-429	1,021,523	739,484	1,081,278	1,260,884	1,324,927	1,320,721	1,314,152
CCC-C-430	2,298,613	1,480,711	2,058,207	2,482,704	2,730,181	2,783,851	2,787,819
CCC-C-432	36,048	25,604	35,727	42,209	45,655	46,329	46,404
CCC-C-436	3,778,132	2,957,942	4,412,725	5,117,248	5,331,636	5,287,260	5,274,480
CCC-C-438	705,540	335,023	474,092	569,214	623,386	634,484	638,588
CCC-C-440	7,583	5,799	8,527	9,851	10,176	10,049	9,892
CCC-C-441	621	398	544	628	663	668	656
CCC-C-446	72,870	56,530	78,244	92,881	100,884	102,416	102,608
CCC-C-461	789,661	526,165	735,623	888,497	987,229	1,018,543	1,025,082
CCC-C-467	2,521,680	2,126,976	3,131,449	3,642,278	3,807,447	3,783,640	3,758,888

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SCENARIO B

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
CCC-C-476	1,998	1,645	2,481	2,843	2,980	2,971	3,000
DDD-L-20	65,335,775	54,801,012	78,001,018	92,834,941	98,533,889	98,949,391	98,955,499
DDD-T-88	2,985,406	2,870,248	4,108,000	4,922,[illegible]	5,352,146	5,421,889	5,448,840
JJ-W-155	31,468,828	26,178,353	37,831,294	44,278,090	46,830,438	46,858,988	46,850,201
KK-L-2004	12,027	10,533	15,211	17,828	18,873	18,893	18,809
KK-L-254							
KK-L-271	15,282	11,228	16,230	19,071	20,191	20,208	20,119
KSA-B-1000	10,482	8,925	12,483	14,990	16,570	16,962	17,188
KSA-C-1000	382,020	152,560	218,788	257,735	273,302	273,830	272,697
KSA-C-1100	1,234	289	443	512	522	510	503
KSA-C-1200	1,044,414	676,038	922,820	1,068,164	1,125,325	1,132,934	1,112,874
KSA-C-2000	1,355,797	938,644	1,436,701	1,660,818	1,697,708	1,659,945	1,636,938
KSA-C-3000	252,274	181,892	225,488	277,301	308,401	315,133	315,451
KSA-C-4000	81	82	90	104	109	108	107
KSA-C-5000	1,834	1,551	2,234	2,582	2,817	2,824	3,020
KSA-C-8000	152,283	151,513	215,209	254,652	273,473	275,512	275,280
KSA-C-9000	244,638	243,433	345,773	409,144	439,385	443,143	442,289

SCENARIO B

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
KSA-K-1000	8,407,649	7,115,044	10,269,570	12,036,488	12,748,042	12,782,894	12,705,663
KSA-K-2000	629,221	511,272	751,188	883,833	936,386	935,811	934,831
KSA-K-3000	1,666,959	1,353,608	1,953,731	2,289,887	2,425,269	2,426,061	2,417,211
KSA-K-4000	64,871	47,372	68,374	80,138	84,878	84,977	84,598
KSA-K-5000	665	422	581	711	780	808	809
KSA-K-6000	18,021	11,844	17,184	20,188	21,272	21,218	20,893
KSA-K-7000	655,304	387,353	521,507	602,173	627,550	623,842	619,884
KSA-K-8000	11,374	8,173	11,798	13,826	14,644	14,661	14,595
KSA-K-900	1,440	1,051	1,545	1,785	1,844	1,821	1,792
KSA-N-1000	4,242	3,377	4,719	5,872	6,270	6,418	6,504
KSA-NW-100	23,470	51,777	70,693	81,676	86,218	86,808	85,278
KSA-PC-100	28,466	20,776	31,853	36,806	37,563	36,720	36,200
KSA-R-1000	6,060						
KSA-T-1000	172,584	143,328	208,455	238,584	260,361	267,425	278,047
KSA-T-2000	557,001	380,355	531,121	638,834	706,190	722,913	732,496
KSA-T-3000	6,344	11,548	17,711	20,463	20,850	20,408	20,117
KSA-T-4000	283,198	191,551	293,788	339,440	346,528	338,520	333,704

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SCENARIO B

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SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
KSA-W-1000	30,840	7,217	11,069	12,789	13,058	12,755	12,573
KSA-WP-100	5,332	4,548	6,351	7,639	8,444	8,644	8,759
KSA-Y-1000	1,514,817,600	1,022,265,141	1,473,364,933	1,727,835,732	1,831,037,557	1,633,861,107	1,825,513,269
KSA-Y-2000	15,143,226	15,158,808	21,974,023	25,906,396	27,568,068	27,632,271	27,568,309
KSA-Y-3000	88,153	72,874	106,183	123,280	130,588	130,718	130,134
L-S-125	588,520	442,804	647,818	753,136	786,476	781,350	773,847
LPP-DES12-80	26,136	24,447	37,002	42,753	44,265	43,725	43,872
LPP-DES13-80	10,164	9,507	14,390	16,626	17,214	17,004	16,983
LPP-DES18-73	987,173	834,257	1,208,181	1,416,935	1,500,247	1,501,489	1,494,891
LPP-DES23-73	474,853	363,420	526,309	617,275	653,538	654,076	651,188
LPP-DES32-75	698,124	544,654	788,491	922,578	980,743	954,520	948,498
LPP-DES8-78	99,732	77,808	114,070	131,797	137,249	136,360	135,500
MIL-B-1667	481,216	350,889	538,339	621,993	634,984	620,308	611,482
MIL-B-17757	170,115	125,231	181,367	212,706	225,192	225,372	224,378
MIL-B-371	14,628,786	20,242,260	29,419,598	34,214,911	35,831,029	35,845,007	35,654,530
MIL-B-41828	7,209,298	5,458,502	7,892,788	9,242,466	9,773,035	9,775,828	9,728,842
MIL-B-593	1,164,196	1,084,839	1,553,283	1,815,905	1,911,042	1,905,322	1,893,712

KURT SALMON ASSOCIATES
SCENARIO B

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SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-B-81813	107,185	68,010	97,195	114,204	121,893	122,312	121,957
MIL-B-87018	47,552	30,528	42,530	54,291	58,156	59,426	56,485
MIL-C-10178	1,105,137	696,150	1,297,021	1,495,780	1,608,098	1,631,678	1,679,990
MIL-C-10298	4,512,326	3,519,376	5,057,558	5,921,706	6,270,720	6,280,924	6,248,893
MIL-C-10799	12,488	9,397	13,599	15,812	16,926	17,011	17,067
MIL-C-10859	2,268,920	1,954,836	2,409,982	2,619,849	2,875,410	2,972,240	2,959,330
MIL-C-11065	958,870	705,144	1,018,645	1,192,918	1,261,450	1,261,808	1,255,643
MIL-C-12095	1,024,198	789,393	1,182,435	1,350,074	1,408,102	1,388,424	1,369,878
MIL-C-12189	3,068,303	2,565,301	3,760,351	4,345,271	4,525,702	4,498,888	4,468,371
MIL-C-12368	590,844	1,139,688	1,702,281	1,877,666	2,055,172	2,032,782	2,018,472
MIL-C-15062	11,978	45,170	68,177	78,488	81,963	83,105	85,502
MIL-C-15065	154,704	724,345	1,068,872	1,235,055	1,313,526	1,324,218	1,353,859
MIL-C-16290	330,335	220,506	308,925	376,720	418,326	427,284	427,479
MIL-C-16375	24,839	51,831	78,188	91,493	93,403	91,245	89,948
MIL-C-17155	721,706	541,271	755,331	913,848	1,007,881	1,028,625	1,034,742
MIL-C-17157	1,339,728	1,083,351	1,587,182	1,840,05[illegible]	1,941,714	1,937,647	1,917,110
MIL-C-1734	2,580	2,788	4,016	4,640	5,084	5,201	5,427

SCENARIO B

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-18387	190,551	147,273	218,554	250,203	258,443	255,218	251,249
MIL-C-19002	825	604	824	952	1,005	1,011	993
MIL-C-19699	2,851	1,907	2,827	3,215	3,573	3,653	3,655
MIL-C-19759	953,300	670,007	927,014	1,100,181	1,197,054	1,215,298	1,220,475
MIL-C-20696	21,862	15,805	23,081	26,809	27,958	27,751	27,438
MIL-C-21115	4,690,369	4,316,894	6,270,458	7,316,958	7,883,428	7,998,975	8,181,791
MIL-C-2184	8,564	6,800	10,430	12,050	12,302	12,018	11,847
MIL-C-21852	264,737	176,543	250,889	302,110	329,853	334,258	335,146
MIL-C-21821	1,567,321	1,180,608	1,679,090	1,958,353	2,133,609	2,183,882	2,246,363
MIL-C-23929	825	604	824	952	1,005	1,011	993
MIL-C-28115	38,040	31,163	45,274	53,206	56,223	56,132	55,719
MIL-C-28127	909,976	674,128	781,504	950,973	1,055,909	1,079,855	1,080,478
MIL-C-28137	7,975	5,737	8,445	9,965	10,520	10,473	10,397
MIL-C-28147	695,011	470,940	855,934	806,662	897,131	916,731	917,639
MIL-C-28363	230,279	192,212	276,759	320,039	349,350	358,819	374,222
MIL-C-28365	31,843	28,683	38,409	44,438	48,515	49,826	51,946
MIL-C-297	601,836	470,910	676,469	789,591	859,874	879,180	908,594

SCENARIO B

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-326	837,372	1,300,486	1,910,195	2,234,390	2,373,312	2,380,562	2,388,753
MIL-C-332	1,129,343	799,762	1,158,228	1,358,407	1,438,216	1,439,405	1,433,077
MIL-C-3395	13,551	10,163	14,849	17,273	17,824	17,759	17,590
MIL-C-342	3,838,575	2,723,058	3,799,659	4,492,828	4,858,530	4,825,328	4,828,289
MIL-C-3453	878	878	878	878	878	878	878
MIL-C-368	609,468	1,789,691	2,845,870	3,062,890	3,249,341	3,267,718	1,827,120
MIL-C-3735	4,136,544	3,180,818	4,538,810	5,358,315	5,726,435	5,760,340	5,741,595
MIL-C-3738	57,205	47,216	67,879	78,828	85,837	88,161	81,928
MIL-C-3760	103,736	74,753	107,944	126,503	133,948	134,077	133,468
MIL-C-3924	2,232,828	1,864,474	2,414,031	2,819,093	2,967,068	2,980,420	2,938,220
MIL-C-3953	1,025	1,025	1,025	1,025	1,025	1,025	1,025
MIL-C-40004	25,238	17,048	24,607	28,842	30,548	30,580	30,440
MIL-C-40038	5,387	3,873	5,704	6,733	7,104	7,068	7,011
MIL-C-41808	41,108	30,607	45,007	52,001	53,713	53,042	52,217
MIL-C-41820	489,958	453,281	683,067	780,275	820,828	812,975	814,398
MIL-C-41831	21,402	18,258	25,495	30,864	33,897	34,700	35,160
MIL-C-4277	131,239	131,239	131,239	131,239	131,239	131,239	131,239

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SCENARIO B

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-43122	356,573	175,028	253,832	287,756	313,378	312,207	308,811
MIL-C-43128	388,200	319,070	465,230	542,219	570,221	568,920	566,474
MIL-C-43181	6,316,273	4,463,067	6,435,895	7,552,134	8,004.627	8,015,131	7,975,545
MIL-C-43204	187;306	125,774	183,104	214,101	228,078	225,989	225,343
MIL-C-43234	58,249	41,653	60,121	70,466	74,633	74,719	74,386
MIL-C-43247	109,753	84,007	121,578	142,146	150,119	150,100	149,384
MIL-C-43251	793,268	532,920	808,192	934,889	983,839	948,584	941,880
MIL-C-43256	755,379	557,257	809,491	946,228	997,570	998,354	990,926
MIL-C-43303	2,389,324	2,250,201	3,269,186	3,817,980	4,021,084	4,013,804	3,990,798
MIL-C-43352	6,170	1,655	2,434	2,812	2,905	2,869	2,824
MIL-C-43358	175,107	139,881	199,393	233,850	247,581	247,782	246,432
MIL-C-43375	177,457	134,424	194,674	228,320	241,735	241,937	240,374
MIL-C-43424	23,874	17,888	25,843	30,344	32,020	31,953	31,614
MIL-C-43468	4,097,991	3,328,202	4,823,678	5,444,604	5,661,922	5,638,100	5,620,758
MIL-C-43473	2,436,303	1,809,137	2,584,356	3,022,893	3,205,341	3,212,428	3,197,594
MIL-C-43479	2,269,544	1,768,092	2,477,981	2,925,106	3,154,636	3,185,116	3,198,492
MIL-C-43482	3,069,708	2,082,146	3,108,933	3,832,783	3,786,023	3,761,733	3,740,328

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SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-43504	17,321	12,637	19,382	22,393	22,861	22,333	22,015
MIL-C-43525	402,334	282,211	423,594	494,310	515,271	509,948	507,085
MIL-C-43594	2,397,175	805,722	1,183,244	1,370,885	1,423,767	1,410,369	1,393,819
MIL-C-43600	50,820	47,538	71,948	83,131	86,072	85,021	84,817
MIL-C-43605	883,480	863,578	972,843	1,124,024	1,170,518	1,162,930	1,155,588
MIL-C-43627	4,735,878	3,818,830	5,289,584	6,176,292	6,474,740	6,444,591	6,403,224
MIL-C-43637	1,105,209	873,342	1,260,635	1,477,571	1,564,959	1,566,780	1,559,826
MIL-C-43675	63,049	48,176	73,890	85,372	87,155	85,140	83,929
MIL-C-43678	1,268,682	945,903	1,365,428	1,600,361	1,694,940	1,695,871	1,689,310
MIL-C-43701	57,137	41,775	60,771	70,898	74,617	74,480	74,090
MIL-C-43718	1,221,789	1,590,432	2,324,902	2,722,134	2,888,853	2,897,313	2,909,878
MIL-C-43734	12,983	15,08*	22,427	26,066	27,188	26,965	26,846
MIL-C-43774	4,943	4,246	6,468	7,473	7,685	7,550	7,493
MIL-C-43781	70,551	47,189	67,754	81,073	87,302	87,817	87,443
MIL-C-43824	18,238	14,320	21,044	24,325	25,142	24,836	24,453
MIL-C-43836	38,045	21,747	31,854	37,378	39,487	39,421	39,293
MIL-C-43842	13[illegible],709	159,228	238,295	278,500	287,372	284,365	282,874

SCENARIO B

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-43843	1,241,741	880,879	1,416,596	1,660,013	1,757,607	1,759,222	1,751,201
MIL-C-43847	21,218	15,787	23,230	26,839	27,723	27,377	26,951
MIL-C-43858	1,650,263	7,324,717	10,738,420	12,407,183	12,820,458	12,836,776	12,755,787
MIL-C-43874	23,040	17,148	25,249	29,172	30,122	29,736	29,274
MIL-C-43882	1,856,573	8,234,787	12,072,802	13,948,728	14,525,814	14,431,752	14,340,718
MIL-C-43906	4,065,171	2,873,258	4,183,633	4,892,117	5,160,428	5,147,815	5,093,546
MIL-C-43920	616,290	431,107	607,920	730,815	807,335	828,492	839,751
MIL-C-43938	337,506	246,116	377,475	436,131	445,241	434,850	426,762
MIL-C-43983	789,784	698,392	1,030,786	1,212,029	1,279,994	1,276,298	1,274,158
MIL-C-43992	3,271,563	707,489	1,085,099	1,253,717	1,278,901	1,250,318	1,232,530
MIL-C-44031	26,595,592	22,581,759	32,702,863	38,354,744	40,607,911	40,641,354	40,482,583
MIL-C-44034	7,842	5,701	8,357	9,656	10,056	9,990	9,927
MIL-C-44043	90,884	105,570	156,990	182,483	190,315	188,757	187,921
MIL-C-44050	931,117	1,050,241	1,563,847	1,816,780	1,893,923	1,877,847	1,869,984
MIL-C-483	271,934	214,405	315,183	364,217	376,328	371,699	365,966
MIL-C-484	2,312,486	1,824,022	2,841,304	3,087,939	3,258,340	3,252,481	3,231,838
MIL-C-5040	4,006,762	3,790,086	4,106,880	4,275,884	4,335,008	4,330,700	4,320,841

SCENARIO B

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-508	1,357,203	1,080,404	1,583,806	1,841,380	1,828,034	1,820,418	1,811,383
MIL-C-81251	250,860	193,868	278,883	328,164	347,572	347,977	348,432
MIL-C-8590	249,188	192,918	282,336	328,859	338,773	335,208	330,180
MIL-C-7020	1,070,408	1,069,302	1,070,403	1,071,043	1,071,307	1,071,341	1,071,251
MIL-C-7040	3,821,030	3,821,030	3,821,030	3,821,030	3,821,030	3,821,030	3,821,030
MIL-C-7219	1,191,729	873,526	1,258,722	1,471,388	1,557,488	1,559,066	1,552,383
MIL-C-7350	6,954,987	5,472,658	7,685,796	8,939,081	9,437,188	9,445,995	9,406,320
MIL-C-7515	2,728,578	2,706,729	2,737,448	2,752,485	2,757,084	2,758,331	2,755,602
MIL-C-8061	408	339	488	588	623	623	623
MIL-C-81393	930	800	1,210	1,388	1,447	1,430	1,428
MIL-C-81814	185 423	108,283	145,754	173,601	188,408	191,271	189,792
MIL-C-82252	34,891	28,924	41,682	48,142	52,539	53,988	56,311
MIL-C-923	2,344,574	3,882,435	5,808,008	6,568,328	7,085,417	7,154,894	7,285,704
MIL-C-83242	80,878	61,818	71,060	84,633	91,852	93,248	92,528
MIL-C-83398	69,628	45,089	61,521	71,079	75,022	75,529	74,178
MIL-C-83429	987,698	814,288	1,197,388	1,383,438	1,428,988	1,411,145	1,389,197
MIL-C-83450	52,899	34,950	48,559	55,452	60,182	61,097	60,825

SCENARIO B

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-87052	933,444	3,145,583	4,381,231	5,387,999	5,992,277	6,123,189	6,128,258
MIL-F-21840	5,463,733	5,501,412	8,013,677	9,318,850	9,750,318	9,700,669	9,614,685
MIL-F-43539	157,517	115,494	166,719	185,389	206,841	207,173	206,249
MIL-G-3866	204,970	153,972	225,731	260,810	271,598	269,838	268,134
MIL-H-41802	279,250	860,016	1,301,168	1,508,502	1,553,346	1,528,314	1,508,384
MIL-L-11075	14,880	11,189	18,406	18,955	19,580	19,337	19,036
MIL-L-15040	60,960	501,474	722,339	834,883	910,910	935,662	976,323
MIL-L-1870	37,200	27,898	41,014	47,387	48,950	48,342	47,590
MIL-L-1709	232,427	181,198	265,078	306,274	320,784	320,059	320,098
MIL-L-40051	47,278	34,205	49,370	57,866	61,287	61,357	61,081
MIL-L-40069	1,800	1,533	2,320	2,681	2,778	2,742	2,739
MIL-P-15064	680,864	1,817,266	2,683,788	3,091,334	3,307,800	3,345,039	3,421,592
MIL-R-1870	158,000	131,655	198,698	229,823	238,238	235,477	235,035
MIL-R-17343	1,875,000	487,384	714,533	825,572	859,720	854,148	848,754
MIL-R-24049	6,750,000	1,754,584	2,572,318	2,972,058	3,094,991	3,074,932	3,055,513
MIL-R-30500	4,989,083	1,537,040	2,259,363	2,610,475	2,716,987	2,697,935	2,681,835
MIL-S-3577	388,651	281,613	431,513	498,866	509,735	498,200	491,197

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SCENARIO B

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SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-S-43355	398,928	1,228,592	1,858,812	2,155,004	2,219,0[illegible]	2,180,448	2,154,806
MIL-S-43593	7,029						
MIL-S-6790	28,773	23,304	34,0[illegible]	39,548	41,129	40,769	40,261
MIL-T-2283	208,883	135,207	184,584	213,237	225,065	226,587	222,535
MIL-T-34548	317,520	222,852	322,737	378,516	400,756	401,088	399,328
MIL-T-40625	300,144	222,537	330,012	382,364	398,110	394,866	392,983
MIL-T-43548	8,070,255,420	7,287,771,240	487,111,714	2,348,942,071	3,149,589,229	3,199,105,567	3,155,810,266
MIL-T-43566	17,623,103	20,356,676	29,663,812	34,572,897	36,334,356	36,236,782	36,041,338
MIL-T-43594	255,908,928	55,341,387	84,878,891	98,068,515	100,116,691	97,802,721	96,411,213
MIL-T-43624	54,568,080	12,437,680	17,649,421	20,746,749	22,181,449	22,349,502	22,308,504
MIL-T-43636	30,476,623	33,528,467	49,853,435	57,845,530	60,435,336	59,936,415	59,660,610
MIL-T-43709	16,793	11,149	16,903	19,528	20,184	19,910	19,854
MIL-T-43718	35,619	25,957	39,811	45,998	46,658	45,873	45,220
MIL-T-5038	5,437,836	4,347,289	6,223,866	7,271,054	7,688,299	7,694,226	7,661,038
MIL-T-5237	50,916	63,888	90,141	108,262	119,578	122,412	124,424
MIL-T-5661	33,059	32,846	33,058	33,181	33,231	33,238	33,221
MIL-T-6134	47,136	47,136	47,136	47,136	47,136	47,136	47,136

SCENARIO B

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-T-8319	95,951,076	76,157,621	110,530,619	128,425,310	133,914,079	132,984,997	131,104,472
MIL-T-8363	185	135	185	213	225	227	223
MIL-W-17337	53,801	56,397	83,674	97,144	101,182	100,302	99,694
MIL-W-27265	579,742	553,348	584,707	602,274	609,350	609,497	608,931
MIL-W-4088	7,049,193	5,310,714	7,601,753	8,835,908	9,303,938	9,293,998	9,260,791
MIL-W-43566	291	291	391	291	291	291	291
MIL-W-43638	2,599,693	1,995,879	2,933,271	3,413,684	3,569,843	3,549,201	3,529,192
MIL-W-43668	3,340,125	1,996,605	2,891,358	3,391,041	3,590,300	3,593,297	3,577,515
MIL-W-43685	395,507	300,192	441,048	509,588	530,386	526,690	523,456
MIL-W-43688	380,497	278,683	403,687	472,701	500,754	501,821	500,568
MIL-W-5038	4,252	4,252	4,252	4,252	4,252	4,252	4,252
MIL-W-530	12,824,245	9,880,885	14,423,892	16,803,039	17,623,586	17,551,466	17,432,198
MIL-W-5625	10,858	10,858	10,858	10,858	10,858	10,858	10,858
MIL-W-5664	579,499	443,067	643,299	748,279	785,540	783,310	778,481
MIL-W-5665	766,229	408,127	498,702	549,120	569,059	569,250	567,589
PPP-T-60	393	393	393	393	393	393	393
T-C-571	611,340	476,725	703,454	816,918	852,493	846,477	841,350

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SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
T-R-605	6,072	2,141	3,083	3,563	3,889	3,994	4,188
T-R-618	3,960	159	229	265	289	297	310
T-T-871	1,045,644	758,239	1,106,794	1,291,865	1,359,039	1,355,638	1,348,976
T-T-881	22,643	16,546	25,231	29,165	29,935	29,364	29,071
T-T-911	883,572	646,761	945,673	1,103,067	1,159,631	1,156,312	1,151,059
V-B-871	163,200	167,375	227,164	266,256	282,003	282,331	281,078
V-F-106	154,200	36,086	55,346	63,947	65,282	63,774	62,666
V-L-61	1,419,410	1,063,238	1,534,868	1,789,229	1,905,090	1,906,833	1,897,497
V-T-278	1,850,546,105	1,663,502,608	2,382,762,263	2,783,152,546	2,988,457,506	3,027,093,858	3,066,665,584
V-T-280	35,861,069	36,301,560	52,470,193	61,477,407	65,217,632	65,384,689	65,274,229
V-T-285	1,203,730,792	908,554,088	1,321,087,736	1,548,349,753	1,632,250,658	1,630,605,076	1,622,891,417
V-T-295	478,604,625	399,114,104	567,306,018	662,584,697	701,993,585	703,819,904	700,827,298
V-T-301	10,046,052	35,990,660	53,272,668	61,777,067	65,338,165	65,559,988	66,592,678
V-T-385	62,358,400	40,478,402	56,283,331	66,742,096	72,499,358	73,744,473	73,897,442

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
C-F-206	1,073	590	638	673	683	687	698
C-T-301	11,084	377	418	483	522	532	557
CC-C-487	504	237	257	282	287	301	311
CCC-C-41	24,174	13,524	14,070	14,524	14,576	14,474	14,582
CCC-C-419	3,852,038	2,098,446	2,292,381	2,506,638	2,622,566	2,656,666	2,744,058
CCC-C-426	284,588	151,710	162,818	175,670	182,762	184 063	189,326
CCC-C-428	528	14	16	18	19	20	20
CCC-C-429	1,021,523	556,030	607,464	665,342	697,067	705,859	729,525
CCC-C-430	2,298,813	1,210,895	1,273,907	1,319,234	1,328,547	1,328,088	1,339,682
CCC-C-432	38,048	20,223	21,630	22,658	23,024	23,144	23,550
CCC-C-436	3,776,132	2,139,848	2,381,756	2,678,352	2,846,235	2,898,641	3,018,026
CCC-C-438	432,998	281,881	281,325	298,840	304,868	308,628	312,243
CCC-C-440	7,583	4,401	4,784	5,244	5,525	5,589	5,792
CCC-C-441	621	327	343	347	349	348	353
CCC-C-446	72,870	45,118	48,032	49,897	50,427	50,800	51,332
CCC-C-461	799,681	429,201	451,846	470,465	473,900	472,773	477,243
CCC-C-487	2,821,680	1,586,985	1,739,914	1,918,371	2,020,702	2,048,645	2,122,503

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
CCC-C-478	1,988	1,134	1,293	1,474	1,570	1,609	1,680
DD-L-20	3,788,544	2,361,812	2,557,245	2,765,767	2,874,695	2,903,422	2,987,921
DDD-L-20	57,295,919	40,114,656	43,679,515	47,312,251	49,116,871	49,080,881	51,121,891
DDD-T-66	2,965,406	2,231,997	2,401,881	2,573,445	2,643,270	2,660,168	2,717,732
JJ-W-155	31,468,825	20,028,370	21,717,959	23,522,105	24,473,635	24,728,449	25,483,661
KK-L-2004	12,627	8,078	8,750	9,470	9,849	9,948	10,238
KK-L-271	15,262	8,588	9,308	10,077	10,478	10,582	10,882
KSA-B-1000	10,482	6,985	7,513	7,940	8,055	8,109	8,238
KSA-C-1000	135,300	75,688	80,572	83,696	84,580	84,869	86,093
KSA-C-1100	1,234	208	232	267	288	294	308
KSA-C-1200	1,044,414	555,585	582,588	588,513	592,211	591,184	598,493
KSA-C-2000	1,803,507	720,040	800,959	919,428	983,011	1,011,264	1,059,887
KSA-C-3000	252,274	135,499	140,965	145,518	146,029	145,014	145,895
KSA-C-4000	81	46	50	55	58	59	61
KSA-C-5000	1,634	996	1,180	1,327	1,379	1,428	1,479
KSA-C-8000	152,283	119,023	127,529	135,538	139,192	139,679	143,078
KSA-C-9000	244,638	181,233	204,698	217,766	223,569	224,902	228,881

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+8	M+12	M+16	M+24	M+30	M+36
KSA-K-1000	690	5,462,319	5,914,347	6,306,657	6,649,310	6,715,071	6,910,521
KSA-K-2000	629,221	383,514	419,888	464,078	487,546	494,043	510,907
KSA-K-3000	1,666,959	1,039,197	1,125,188	1,218,937	1,284,898	1,277,506	1,314,685
KSA-K-4000	64,671	36,388	39,378	42,589	44,270	44,705	46,009
KSA-K-5000	665	356	370	382	383	381	384
KSA-K-6000	18,021	9,242	9,920	10,693	11,120	11,195	11,514
KSA-K-7000	355,304	268,489	292,564	321,261	337,590	342,645	354,942
KSA-K-8000	11,374	6,275	6,794	7,348	7,638	7,713	7,938
KSA-K-900	1,440	797	867	950	1,001	1,013	1,049
KSA-N-1000	4,242	2,842	2,842	3,004	3,048	3,068	3,117
KSA-NW-100	23,470	42,517	44,599	45,147	45,360	45,288	45,852
KSA-PC-100	28,466	14,959	16,686	19,187	20,744	21,131	22,157
KSA-R-1000	8,060						
KSA-T-1000	172,584	92,059	109,070	122,605	127,424	131,942	138,704
KSA-T-2000	587,001	287,718	320,213	338,385	343,261	345,553	350,988
KSA-T-3000	49,344	8,328	9,272	10,666	11,534	11,750	12,322
KSA-T-4000	263,168	138,138	153,810	176,928	191,334	194,906	204,398

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
KSA-W-1000	30,840	5,205	5,795	6,668	7,209	7,344	7,701
KSA-WP-100	5,332	3,560	3,829	4,046	4,105	4,132	4,187
KSA-Y-1000	1,514,817,600	788,739,090	850,886,558	918,745,490	954,109,656	963,189,486	990,702,344
KSA-Y-2000	15,143,226	11,817,318	12,589,498	13,681,631	14,241,347	14,382,337	14,804,164
KSA-Y-3000	86,153	55,846	60,576	65,516	68,103	68,777	70,779
L-S-125	588,520	335,588	385,174	399,095	412,544	423,384	437,749
LPP-DES12-80	26,138	17,213	19,408	22,220	23,839	24,363	25,488
LPP-DES13-80	10,184	6,694	7,548	8,641	9,271	9,474	9,912
LPP-DES18-73	987,173	638,181	681,629	748,774	778,641	788,269	809,295
LPP-DES23-73	474,653	278,011	301,291	328,184	339,194	342,512	352,547
LPP-DES32-75	638,124	403,997	444,214	488,610	513,833	521,511	540,440
LPP-DES8-78	99,732	57,714	63,459	69,801	73,405	74,502	77,208
MIL-B-1687	481,218	253,125	281,843	324,205	350,603	357,147	374,541
MIL-B-17757	170,115	95,795	103,819	112,401	116,888	118,032	1[illegible] 492
MIL-B-371	14,632,618	15,275,509	16,665,888	18,154,43[illegible]	18,987,854	19,202,700	19,826,206
MIL-B-41828	7,209,298	4,182,732	4,531,915	4,907,352	5,108,223	5,157,659	5,310,623
MIL-S-533	1,134,198	809,074	880,031	961,773	1,006,753	1,016,297	1,051,534

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-B-81813	107,185	52,706	56,830	60,866	62,847	63,275	65,002
MIL-B-87019	47,552	25,551	26,582	27,440	27,537	27,348	27,512
MIL-C-10178	1,105,137	586,753	683,711	773,144	812,102	837,164	870,190
MIL-C-10298	4,512,326	2,717,121	2,834,062	3,158,403	3,272,399	3,301,886	3,393,802
MIL-C-10799	12,469	7,008	7,891	8,373	8,706	8,824	9,092
MIL-C-10859	2,288,920	1,253,756	1,384,888	1,487,601	1,553,240	1,570,845	1,620,429
MIL-C-11085	958,870	540,541	585,653	634,093	659,756	666,453	686,212
MIL-C-12095	1,024,198	588,267	645,317	712,059	750,000	760,544	788,230
MIL-C-12189	3,071,980	1,905,433	2,094,770	2,303,732	2,422,376	2,458,445	2,547,505
MIL-C-12368	515,121	689,064	760,786	851,132	903,152	917,664	934,233
MIL-C-15062	11,976	29,952	34,874	39,453	41,467	42,738	44,432
MIL-C-15065	154,704	487,109	582,863	638,362	674,086	693,345	721,852
MIL-C-16250	330,335	184,448	191,938	198,008	198,713	187,365	198,604
MIL-C-16375	24,639	37,234	41,457	47,690	51,573	52,535	55,094
MIL-C-17155	721,708	436,760	463,149	485,622	491,825	492,664	499,275
MIL-C-17157	1,339,726	849,810	911,445	981,499	1,020,294	1,027,350	1,056,398
MIL-C-1734	2,580	1,791	2,121	2,385	2,478	2,566	2,659

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SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-18387	190,551	111,771	121,504	133,178	140,318	141,948	147,104
MIL-C-19002	825	496	520	526	529	528	534
MIL-C-19699	2,851	1,608	1,672	1,725	1,732	1,723	1,734
MIL-C-19759	953,300	536,690	570,461	592,318	598,339	600,044	608,408
MIL-C-20696	21,662	12,046	13,076	14,260	14,950	15,115	15,624
MIL-C-21115	4,690,369	2,998,574	3,410,065	3,791,294	3,953,932	4,048,810	4,187,344
MIL-C-2184	8,594	4,904	5,460	6,281	6,783	6,919	7,258
MIL-C-21852	264,737	140,315	149,569	158,998	162,680	163,235	168,297
MIL-C-21881	1,567,321	823,760	935,247	1,020,427	1,049,609	1,074,438	1,104,875
MIL-C-23926	825	496	520	526	529	528	534
MIL-C-29118	38,040	24,058	25,969	28,187	29,392	29,653	30,543
MIL-C-29127	609,979	486,782	506,385	522,451	525,314	523,533	527,975
MIL-C-29137	7,975	4,397	4,764	5,249	5,519	5,577	5,783
MIL-C-29147	695,011	394,164	410,064	423,304	424,796	421,843	424,407
MIL-C-29363	230,279	123,904	146,522	[illegible]	170,912	176,886	183,206
MIL-C-29365	31,843	17,245	20,366	22,850	23,730	24,551	25,423
MIL-C-297	601,838	322,255	369,496	408,806	423,339	434,512	448,311

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-326	837,372	941,850	1,048,871	1,187,593	1,227,412	1,249,988	1,285,001
MIL-C-332	1,129,343	611,798	663,033	717,815	746,448	753,750	775,833
MIL-C-3395	13,551	7,578	8,310	9,153	9,647	9,784	10,146
MIL-C-342	3,836,575	2,181,458	2,306,080	2,412,010	2,450,175	2,460,693	2,502,722
MIL-C-3453	876	876	876	876	876	876	876
MIL-C-388	809,466	1,221,102	1,400,404	1,585,285	1,675,263	1,719,645	1,789,878
MIL-C-3735	4,136,544	2,487,677	2,671,434	2,855,426	2,944,454	2,985,044	3,037,481
MIL-C-3738	57,205	30,480	36,017	40,424	41,886	43,446	44,983
MIL-C-3760	103,736	57,365	62,123	67,219	69,894	70,520	72,858
MIL-C-3924	2,232,928	1,273,918	1,380,835	1,498,654	1,563,295	1,573,497	1,628,441
MIL-C-3953	1,025	1,025	1,025	1,025	1,025	1,025	1,025
MIL-C-40039	5,397	2,978	3,221	3,548	3,732	3,769	3,895
MIL-C-41808	41,106	23,228	25,251	27,978	29,183	29,502	30,574
MIL-C-41820	488,958	317,378	358,912	410,452	439,524	448,631	470,022
MIL-C-41831	21,402	14,289	15,370	16,243	13,477	16,588	16,849
MIL-C-4277	131,239	131,239	131,239	131,239	131,239	131,239	131,239
MIL-C-43122	356,573	136,208	146,487	158,545	165,337	168,641	171,634

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SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-43128	388,200	240,015	262,248	286,764	300,089	303,820	313,878
MIL-C-43191	6,316,273	3,440,484	3,718,134	4,015,844	4,171,301	4,209,970	4,330,235
MIL-C-43204	167,308	94,842	103,510	113,005	118,037	119,482	123,301
MIL-C-43234	58,249	31,978	34,624	37,447	38,928	39,311	40,455
MIL-C-43247	109,753	64,120	69,606	75,497	78,634	79,431	81,893
MIL-C-43251	793,288	381,983	428,819	487,353	523,387	533,608	558,129
MIL-C-43256	755,379	424,051	480,678	500,445	521,833	527,431	543,738
MIL-C-43303	2,389,324	1,711,948	1,880,712	2,024,421	2,113,382	2,138,889	2,204,222
MIL-C-43352	6,170	1,258	1,388	1,497	1,577	1,598	1,654
MIL-C-43358	175,107	108,928	114,140	123,573	128,504	129,762	134,557
MIL-C-43375	177,457	102,829	111,442	120,650	125,482	126,690	130,401
MIL-C-43424	23,874	14,015	15,030	16,185	16,825	16,942	17,421
MIL-C-43468	4,097,991	2,660,032	2,828,329	2,939,104	2,978,832	2,988,180	3,038,276
MIL-C-43473	2,436,303	1,403,849	1,515,911	1,634,598	1,697,151	1,714,509	1,763,380
MIL-C-43479	2,269,544	1,393,465	1,491,668	1,588,451	1,598,541	1,607,485	1,637,973
MIL-C-43482	3,069,708	1,539,484	1,695,869	1,902,293	2,020,498	2,051,551	2,133,030
MIL-C-43525	402,334	208,783	228,635	257,597	274,287	278,712	290,162

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-43594	2,414,496	817,625	873,306	738,881	777,626	767,417	815,865
MIL-C-43600	50,820	33,470	37,738	43,206	46,353	47,372	49,560
MIL-C-43605	883,480	492,217	541,212	595,301	626,032	635,385	658,447
MIL-C-43627	4,735,676	2,722,083	2,872,235	3,259,476	3,419,665	3,462,355	3,580,564
MIL-C-43637	1,105,200	670,381	725,893	785,109	816,116	824,190	848,179
MIL-C-43675	66,049	34,743	38,684	44,499	46,122	49,020	51,406
MIL-C-43676	1,288,682	726,060	786,191	850,351	883,959	892,708	918,704
MIL-C-43701	57,137	31,625	34,441	37,495	39,150	39,603	40,882
MIL-C-43718	1,221,789	1,171,752	1,294,301	1,429,672	1,498,518	1,522,526	1,574,505
MIL-C-43734	12,983	11,056	12,229	13,676	14,499	14,739	15,323
MIL-C-43774	4,843	3,025	3,389	3,889	4,189	4,275	4,476
MIL-C-43791	70,551	37,589	40,042	42,991	44,426	44,615	45,670
MIL-C-43824	15,238	10,879	11,820	12,949	13,637	13,785	14,292
MIL-C-43836	38,045	16,406	17,904	19,671	20,621	20,872	21,587
MIL-C-43842	134,709	115,748	126,512	144,730	151,087	156,817	163,364
MIL-C-43843	1,241,741	752,606	815,091	882,070	917,266	926,420	953,568
MIL-C-43847	21,216	11,989	13,033	14,285	15,052	15,227	15,760

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-43858	1,650,263	5,433,102	5,973,963	6,571,017	6,910,225	7,013,479	7,268,048
MIL-C-43874	23,040	12,994	14,138	15,517	16,363	16,557	17,165
MIL-C-43892	1,856,573	6,108,178	6,716,227	7,387,445	7,768,785	7,884,861	8,171,048
MIL-C-43906	4,065,171	2,241,576	2,406,238	2,583,719	2,697,264	2,715,533	2,792,932
MIL-C-43920	616,290	330,265	358,154	380,885	388,831	390,064	396,771
MIL-C-43938	337,506	177,487	197,623	227,327	245,836	250,426	262,622
MIL-C-43983	788,764	518,403	569,046	631,845	665,724	674,845	698,879
MIL-C-43992	3,271,563	510,209	568,094	653,482	706,690	719,882	754,940
MIL-C-44031	26,595,592	17,274,673	18,721,379	20,268,328	21,076,928	21,283,167	21,906,799
MIL-C-44034	7,842	4,229	4,849	5,114	5,379	5,458	5,657
MIL-C-44043	90,884	77,407	85,600	95,731	101,493	103,171	107,258
MIL-C-44050	931,117	767,791	850,251	952,521	1,010,749	1,027,874	1,069,108
MIL-C-483	271,934	162,751	176,911	193,864	204,219	206,589	214,072
MIL-C-484	2,313,209	1,397,934	1,514,661	1,641,975	1,710,552	1,728,330	1,780,844
MIL-C-5040	4,008,762	3,625,370	3,670,353	3,720,407	3,748,150	3,754,968	3,775,845
MIL-C-508	1,357,203	805,921	884,080	972,933	1,022,381	1,036,722	1,073,299
MIL-C-51251	250,860	148,889	161,219	174,370	181,257	183,050	188,378

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SCENARIO C

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SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-8590	249,189	147,411	159,764	174,241	182,992	184,937	191,331
MIL-C-7020	1,070,409	1,068,784	1,068,885	1,068,916	1,068,928	1,068,923	1,068,956
MIL-C-7040	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030
MIL-C-7219	1,191,729	672,850	727,511	785,897	816,346	824,089	847,599
MIL-C-7350	6,954,867	4,307,370	4,625,532	4,965,356	5,143,156	5,188,956	5,326,290
MIL-C-7515	2,725,576	2,689,706	2,694,573	2,699,946	2,702,999	2,703,928	2,706,219
MIL-C-8061	408	253	277	307	322	327	336
MIL-C-81393	930	563	635	727	780	797	833
MIL-C-81814	165,423	88,493	92,383	94,429	94,847	94,496	95,387
MIL-C-82252	34,991	18,577	22,010	24,742	25,714	26,626	27,587
MIL-C-823	2,344,574	2,738,687	3,082,332	3,410,481	3,553,994	3,628,546	3,748,125
MIL-C-83242	80,876	43,156	45,052	46,050	46,254	46,084	46,519
MIL-C-83398	89,628	37,039	38,838	39,301	39,481	39,413	39,900
MIL-C-83429	967,698	817,970	871,797	736,356	775,849	784,879	813,394
MIL-C-83450	52,999	28,276	29,518	30,173	30,306	30,194	30,479
MIL-C-87052	933,444	2,632,770	2,738,873	2,827,404	2,837,374	2,817,651	2,834,774
MIL-F-21840	5,463,733	4,182,571	4,545,041	4,950,354	5,179,970	5,238,246	5,410,788

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-F-43539	157,517	89,650	95,895	103,837	107,946	109,017	112,194
MIL-G-3866	409,940	228,420	251,156	276,258	290,520	294,860	305,562
MIL-H-41802	139,823	314,652	348,048	394,730	423,110	430,199	449,302
MIL-L-11075	14,880	8,471	9,208	10,090	10,630	10,753	11,143
MIL-L-15040	60,960	322,094	381,813	428,968	445,827	461,637	478,296
MIL-L-1870	37,200	21,178	23,020	25,226	26,574	26,882	27,857
MIL-L-1709	232,437	132,200	146,572	161,629	169,738	172,678	178,942
MIL-L-40051	47,276	26,263	28,435	30,752	31,966	32,282	33,221
MIL-L-40069	1,800	1,079	1,217	1,393	1,495	1,528	1,598
MIL-P-15064	690,864	1,237,362	1,421,059	1,598,611	1,679,091	1,724,140	1,790,045
MIL-R-1670	156,000	93,377	104,908	119,609	128,060	130,74[illegible]	136,637
MIL-R-17343	1,875,000	361,523	397,509	437,236	459,808	466,677	483,616
MIL-R-24049	6,750,000	1,301,483	1,431,033	1,574,050	1,655,307	1,680,037	1,741,017
MIL-R-30500	4,989,083	1,135,633	1,251,017	1,380,450	1,454,141	1,476,683	1,531,508
MIL-S-3577	388,651	203,420	228,322	260,044	281,016	286,195	300,023
MIL-S-43355	198,464	449,503	497,211	563,900	604,443	614,571	641,860
MIL-S-43993	7,029						

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-S-8790	28,773	17,740	19,285	21,040	22,089	22,336	23,104
MIL-T-2283	208,883	111,117	116,514	117,903	118,442	118,239	119,699
MIL-T-34548	317,520	170,472	184,751	200,016	207,995	210,030	216,184
MIL-T-40625	300,144	162,971	180,285	200,945	212,719	216,257	224,747
MIL-T-43548	8,070,255,420	5,629,020,917	6,074,754,918	6,535,523,308	6,763,788,193	6,488,585,223	7,004,304,941
MIL-T-43566	17,475,819	15,034,151	16,390,191	17,873,953	18,682,687	18,907,397	19,520,390
MIL-T-43594	255,908,938	39,909,714	44,437,589	51,116,830	55,278,347	58,310,753	59,053,119
MIL-T-43624	54,508,080	9,886,085	10,423,040	11,032,151	11,403,891	11,491,297	11,762,329
MIL-T-43636	30,478,623	24,602,827	27,197,154	30,408,989	32,237,533	32,767,399	34,083,951
MIL-T-43709	16,793	7,873	8,863	10,154	10,908	11,139	11,658
MIL-T-43718	35,619	18,718	20,843	23,978	25,928	26,412	27,698
MIL-T-5038	5,437,836	3,362,940	3,631,595	3,919,291	4,069,856	4,108,463	4,224,540
MIL-T-5237	50,916	46,804	52,998	56,391	57,329	57,835	58,853
MIL-T-5661	33,059	32,743	32,766	32,772	32,776	32,774	32,780
MIL-T-6134	47,136	47,136	47,136	47,136	47,136	47,136	47,136
MIL-T-83193	95,951,076	58,885,304	63,485,013	68,638,883	71,875,795	72,308,415	74,583,047
MIL-T-8363	185	111	117	118	118	118	120

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-W-17337	53,801	41,581	45,854	51,092	54,096	54,850	57,091
MIL-W-27285	579,742	536,820	541,413	546,206	548,717	549,371	551,313
MIL-W-4088	7,049,193	4,081,887	4,425,697	4,806,150	5,010,006	5,067,217	5,220,993
MIL-W-43566	291	291	291	291	291	291	291
MIL-W-43638	2,599,693	1,486,462	1,831,194	1,789,032	1,893,307	1,920,006	1,989,112
MIL-W-43666	3,155,603	1,477,147	1,600,847	1,733,100	1,802,224	1,819,867	1,873,182
MIL-W-43685	395,507	222,026	244,463	266,574	283,878	286,235	288,889
MIL-W-43688	360,487	211,200	228,945	249,578	259,685	262,612	270,493
MIL-W-5038	4,252	4,252	4,252	4,252	4,252	4,252	4,252
MIL-W-530	12,824,245	7,472,058	8,142,636	8,899,402	9,320,853	9,432,851	9,746,872
MIL-W-5625	10,858	10,858	10,858	10,858	10,858	10,858	10,858
MIL-W-5684	579,499	335,787	365,738	398,311	416,287	421,327	435,004
MIL-W-5665	489,447	285,255	291,885	299,013	302,771	303,724	306,611
MIL-W-844	3,049,690	2,099,690	2,247,162	2,387,659	2,456,287	2,470,640	2,528,199
PPP-T-60	393	393	393	393	393	393	393
T-C-571	611,340	353,686	388,817	430,244	453,787	460,435	477,523
T-R-605	6,072	1,375	1,628	1,831	1,904	1,971	2,042

SCENARIO C

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
T-R-616	3,960	102	121	136	142	147	152
T-T-871	1,045,844	571,874	623,690	681,699	713,480	722,130	745,818
T-T-881	22,643	11,871	13,254	15,196	16,374	16,692	17,482
T-T-911	883,572	485,861	531,054	581,781	609,466	617,227	637,910
V-S-871	163,200	120,801	130,805	141,475	147,063	148,518	152,840
V-F-106	154,200	26,024	28,976	33,331	36,045	36,716	38,506
V-L-61	1,419,410	817,300	884,358	956,196	993,966	1,003,576	1,032,729
V-T-276	1,523,441,628	1,285,901,025	1,424,217,820	1,547,431,156	1,600,915,619	1,627,756,214	1,674,827,953
V-T-280	35,861,069	27,573,468	29,994,612	32,503,564	33,781,438	34,155,048	35,159,393
V-T-285	1,206,240,164	698,809,828	759,788,614	827,815,729	864,386,795	874,004,811	901,508,598
V-T-295	478,604,625	310,937,160	334,890,001	359,636,368	372,346,010	375,651,032	385,682,649
V-T-301	10,046,052	24,859,441	28,216,179	31,989,292	33,872,045	34,748,424	36,191,646
V-T-385	62,366,400	32,160,165	34,269,311	35,615,722	35,987,544	36,097,447	36,615,434

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
C-F-206	1,073	909	1,483	2,057	2,631	3,204	3,778
C-T-301	11,064	581	915	1,269	1,623	1,978	2,332
CCC-C-41	24,174	21,155	34,515	47,876	61,237	74,598	87,959
CCC-C-419	3,746,178	3,180,056	5,166,580	7,153,064	9,139,567	11,126,070	13,112,570
CCC-C-426	264,566	230,503	376,082	521,664	667,244	812,823	958,404
CCC-C-425	526	20	33	45	58	71	84
CCC-C-429	1,207,066	954,937	1,558,053	2,161,167	2,764,284	3,367,401	3,970,517
CCC-C-430	1,130,965	892,839	1,456,736	2,020,635	2,584,533	3,148,431	3,712,329
CCC-C-432	36,048	30,862	50,365	69,847	89,339	108,831	128,323
CCC-C-436	3,776,132	3,197,870	5,217,250	7,236,631	9,256,413	11,275,993	13,295,573
CCC-C-438	67,649	59,919	97,764	135,607	173,452	211,295	249,139
CCC-C-440	7,563	6,594	10,756	14,923	19,088	23,253	27,417
CCC-C-441	621	495	808	1,121	1,434	1,747	2,059
CCC-C-446	72,570	69,010	112,595	156,180	199,766	243,351	286,936
CCC-C-461	873	705	1,150	1,595	2,040	2,485	2,930
CCC-C-467	2,948,040	2,483,898	4,020,043	5,576,190	7,132,337	8,688,480	10,244,629
CCC-C-476	1,998	1,682	2,744	3,806	4,868	5,930	6,992

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
DDD-L-20	45,558,411	50,348,090	82,133,183	113,926,676	145,720,159	177,513,655	209,319,451
DDD-T-86	914,719	805,849	1,314,806	1,823,763	2,332,722	2,841,678	3,350,634
JJ-W-155	31,404,996	30,236,941	49,333,958	68,430,976	87,527,990	106,625,005	125,722,023
KK-L-2004	12,627	12,231	19,955	27,679	35,405	43,130	50,854
KK-L-271	15,282	13,000	21,211	29,422	37,632	45,843	54,054
KSA-B-1000	10,482	10,765	17,565	24,364	31,163	37,962	44,761
KSA-C-1000	135,300	115,772	188,892	262,011	335,130	408,249	481,369
KSA-C-1100	1,234	310	506	701	897	1,093	1,289
KSA-C-1200	1,044,414	840,455	1,371,269	1,902,083	2,432,897	2,963,711	3,494,525
KSA-C-2000	1,442,928	996,724	1,626,235	2,255,746	2,885,255	3,514,766	4,144,276
KSA-C-4000	81	68	111	155	198	241	284
KSA-C-5000	1,834	1,468	2,395	3,322	4,249	5,176	6,103
KSA-K-1000	690	8,271,985	13,496,397	18,720,808	23,945,220	29,169,632	34,394,043
KSA-K-2000	629,221	580,822	947,658	1,314,491	1,681,325	2,048,160	2,414,995
KSA-K-3000	1,686,959	1,573,736	2,567,677	3,561,617	4,555,557	5,549,498	6,543,436
KSA-K-4000	64,671	55,078	89,861	124,645	159,431	194,218	229,001
KSA-K-5000	18,021	14,027	22,888	31,748	40,605	49,464	58,324

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
KSA-K-7000	655,304	388,856	850,765	802,874	1,154,583	1,406,492	1,658,401
KSA-K-8000	11,274	9,502	15,504	21,505	27,507	33,508	39,510
KSA-K-900	1,440	1,185	1,848	2,704	3,458	4,213	4,987
KSA-N-1000	4,242	4,072	6,643	9,215	11,787	14,358	16,930
KSA-NW-100	23,470	64,312	104,930	145,548	186,167	226,785	267,403
KSA-PC-100	159	150	244	339	434	528	623
KSA-T-3000	49,344	12,397	20,227	28,057	35,888	43,718	51,548
KSA-T-4000	263,168	205,643	335,522	465,402	595,281	725,161	855,040
KSA-W-1000	30,840	7,748	12,642	17,535	22,429	27,322	32,216
KSA-WP-100	5,332	5,486	8,951	12,416	15,881	19,346	22,811
KSA-Y-2000	15,143,228	17,843,795	28,797,035	39,844,273	51,091,513	62,238,752	73,385,991
KSA-Y-3000	88,153	44,724	138,334	191,743	245,253	298,763	352,273
L-S-125	588,624	504,755	823,845	1,142,339	1,461,129	1,779,921	2,098,715
LPP-DES12-80	26,136	25,573	41,724	57,375	74,027	90,178	106,329
LPP-DES13-80	10,164	9,945	16,226	22,507	28,788	35,069	41,350
LPP-DES18-73	987,173	965,987	1,576,080	2,186,135	2,796,220	3,406,303	4,016,387
LPP-DES23-73	474,653	420,806	686,579	952,350	1,218,123	1,483,894	1,749,687

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
LPP-DES32-75	698,124	604,078	985,598	1,367,120	1,748,642	2,130,163	2,511,685
LPP-DES8-78	99,732	86,297	140,800	195,303	249,806	304,309	358,812
MIL-B-17757	170,115	144,994	236,570	328,145	419,720	511,296	602,871
MIL-B-371	14,572,861	22,923,536	37,401,551	51,579,574	66,357,590	80,835,605	95,313,631
MIL-B-41526	7,209,298	6,328,983	10,326,067	14,323,259	18,320,445	22,317,635	26,314,825
MIL-B-593	1,120,402	1,027,712	1,676,793	2,325,874	2,974,956	3,624,037	4,273,118
MIL-B-81813	107,185	80,015	130,551	181,088	231,625	282,161	333,698
MIL-B-87019	47,552	39,967	65,209	90,451	115,693	140,935	166,177
MIL-C-10296	4,512,328	4,114,517	6,713,160	9,311,802	11,910,445	14,509,088	17,107,730
MIL-C-10798	12,468	10,570	17,245	23,922	30,597	37,273	43,948
MIL-C-10859	2,266,920	1,893,228	3,088,953	4,284,675	5,480,400	6,676,122	7,871,844
MIL-C-11085	958,670	817,902	1,334,472	1,851,042	2,367,611	2,884,181	3,400,750
MIL-C-12095	1,024,198	882,699	1,440,193	1,997,688	2,555,182	3,112,677	3,670,169
MIL-C-12189	3,068,303	2,846,451	4,644,210	6,441,969	8,239,728	10,037,488	11,835,245
MIL-C-12369	515,121	1,032,948	1,685,337	2,337,725	2,990,112	3,642,501	4,294,889
MIL-C-15062	3,998	3,140	5,123	7,106	9,089	11,071	13,054
MIL-C-15065	51,552	40,527	66,122	91,718	117,314	142,910	168,506

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-16290	330,335	288,204	470,227	652,251	834,275	1,016,298	1,198,322
MIL-C-16375	138	7	11	16	20	25	29
MIL-C-17155	721,706	676,283	1,103,410	1,530,538	1,957,662	2,384,787	2,811,916
MIL-C-17157	1,339,726	1,290,428	2,105,432	2,920,439	3,735,445	4,550,451	5,365,457
MIL-C-1734	2,580	2,638	4,304	5,970	7,636	9,303	10,969
MIL-C-18387	190,551	167,484	273,283	379,043	484,822	590,601	696,381
MIL-C-19002	825	750	1,224	1,698	2,172	2,646	3,120
MIL-C-19699	2,851	2,514	4,102	5,690	7,278	8,866	10,454
MIL-C-19759	953,300	822,157	1,341,415	1,860,672	2,378,929	2,899,185	3,418,443
MIL-C-20696	21,662	18,123	28,588	41,015	52,461	63,907	75,353
MIL-C-21115	227,379	178,645	291,474	404,302	517,131	629,959	742,788
MIL-C-2184	8,584	7,301	11,911	16,522	21,133	25,744	30,355
MIL-C-21852	85,121	68,046	107,759	149,473	191,185	232,898	274,612
MIL-C-23928	825	750	1,224	1,698	2,172	2,646	3,120
MIL-C-29118	37,888	36,374	59,348	82,321	105,294	128,267	151,240
MIL-C-29127	25,672	24,510	39,990	55,470	70,950	86,430	101,910
MIL-C-29137	7,975	6,683	10,905	15,125	19,347	23,568	27,789

KURT SALMON ASSOCIATES
SCENARIO D

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SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-29147	695,011	616,540	1,005,934	1,395,328	1,784,722	2,174,116	2,563,510
MIL-C-297	288,404	234,458	382,536	530,615	678,694	826,772	974,851
MIL-C-326	47,933	41,048	66,973	92,898	118,823	144,749	170,674
MIL-C-332	1,129,343	926,031	1,510,893	2,095,755	2,680,617	3,265,479	3,850,341
MIL-C-3395	13,551	11,338	18,500	25,662	32,823	39,984	47,145
MIL-C-342	3,836,576	3,301,103	5,386,010	7,470,917	9,555,825	11,640,731	13,725,638
MIL-C-3453	876	876	876	876	876	876	876
MIL-C-368	128,309	100,915	164,650	228,386	292,121	355,857	419,592
MIL-C-3735	4,136,544	3,789,635	6,183,089	8,576,541	10,969,996	13,363,448	15,756,901
MIL-C-3760	103,736	86,882	141,722	196,562	251,441	306,301	361,161
MIL-C-3924	2,232,926	1,924,078	3,139,287	4,354,494	5,569,703	6,784,911	8,000,119
MIL-C-3953	1,025	1,025	1,025	1,025	1,025	1,025	1,025
MIL-C-40039	5,397	4,526	7,388	10,248	13,107	15,967	18,827
MIL-C-41808	41,106	34,806	56,789	78,772	100,755	122,738	144,721
MIL-C-41820	455,067	443,911	724,276	1,004,641	1,285,005	1,565,370	1,845,735
MIL-C-41831	21,402	22,022	35,931	49,840	63,749	77,658	91,567
MIL-C-4277	131,239	131,239	131,239	131,239	131,239	131,239	131,239

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-43122	356,573	206,540	336,985	467,431	597,878	728,323	858,769
MIL-C-43128	386,200	361,397	589,650	817,901	1,046,152	1,274,403	1,502,655
MIL-C-43181	6,316,273	5,215,854	8,510,077	11,804,301	15,098,525	18,392,749	21,686,973
MIL-C-43204	167,306	143,120	233,511	323,902	414,294	504,684	595,074
MIL-C-43234	58,249	48,427	79,013	109,599	140,185	170,770	201,356
MIL-C-43247	109,753	96,900	158,100	219,299	280,498	341,698	402,897
MIL-C-43251	725,349	515,013	840,285	1,165,556	1,490,827	1,816,099	2,141,371
MIL-C-43258	755,379	640,248	1,044,815	1,448,981	1,853,346	2,257,712	2,662,081
MIL-C-43303	2,369,324	2,584,034	4,216,056	5,848,078	7,480,098	9,112,120	10,744,142
MIL-C-43352	6,170	1,882	3,071	4,260	5,449	6,638	7,827
MIL-C-43358	175,107	161,808	260,089	360,768	461,448	562,127	667,419
MIL-C-43375	177,457	155,644	253,945	352,247	450,548	548,850	647,152
MIL-C-43424	23,674	21,279	34,719	48,159	61,598	75,038	88,478
MIL-C-43468	4,097,991	4,055,607	6,617,043	9,178,478	11,739,915	14,301,350	16,862,786
MIL-C-43473	2,438,303	2,129,118	3,473,824	4,818,530	6,163,236	7,507,942	8,852,648
MIL-C-43479	2,001,830	1,895,811	3,093,165	4,290,519	5,487,873	6,685,227	7,882,581
MIL-C-43482	2,602,480	1,932,503	3,153,032	4,373,559	5,594,089	6,814,618	8,035,145

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-43525	368,577	283,749	463,025	642,259	821,494	1,000,730	1,179,965
MIL-C-43594	172,194	372,108	607,124	842,140	1,077,155	1,312,170	1,547,186
MIL-C-43600	50,820	49,725	81,130	112,536	143,941	175,346	206,751
MIL-C-43605	883,480	735,988	1,200,822	1,665,657	2,130,491	2,595,326	3,060,160
MIL-C-43627	4,733,830	4,096,219	6,683,303	9,270,390	11,857,475	14,444,559	17,031,645
MIL-C-43637	1,105,200	1,015,194	1,656,369	2,297,545	2,938,720	3,579,895	4,221,071
MIL-C-43678	1,268,682	1,099,494	1,793,910	2,488,327	3,182,745	3,877,161	4,571,579
MIL-C-43701	57,137	47,689	77,775	107,883	137,988	168,095	198,202
MIL-C-43718	455,950	409,731	668,508	927,284	1,186,061	1,444,838	1,703,616
MIL-C-43734	12,983	16,573	27,040	37,507	47,974	58,441	68,908
MIL-C-43774	4,943	4,498	7,339	10,180	13,022	15,863	18,704
MIL-C-43781	70,551	57,812	94,324	130,837	167,350	203,862	240,375
MIL-C-43824	18,236	16,307	26,606	36,905	47,203	57,503	67,802
MIL-C-43836	24,468	13,417	21,891	30,365	38,840	47,313	55,787
MIL-C-43842	134,709	173,101	282,428	391,753	501,080	610,406	719,732
MIL-C-43843	1,230,178	1,129,599	1,843,031	2,556,462	3,269,893	3,983,324	4,696,756
MIL-C-43847	21,216	17,965	29,311	40,657	52,003	63,349	74,695

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-43858	1,650,263	8,123,835	13,254,678	18,385,521	23,516,364	28,647,207	33,778,050
MIL-C-43874	23,040	19,468	31,763	44,059	56,354	68,650	80,946
MIL-C-43892	1,858,573	9,133,260	14,901,633	20,670,006	26,438,383	32,206,757	37,975,132
MIL-C-43908	4,065,171	3,402,118	5,550,823	7,699,529	9,848,236	11,996,941	14,145,647
MIL-C-43920	871	828	1,350	1,873	2,397	2,919	3,442
MIL-C-43983	711,312	714,446	1,165,678	1,618,905	2,068,134	2,519,383	2,970,593
MIL-C-44031	26,595,592	26,147,416	42,661,574	59,175,732	75,689,890	92,204,048	108,718,206
MIL-C-44034	7,842	8,323	10,318	14,309	18,303	22,296	26,289
MIL-C-44043	90,884	116,010	189,280	262,549	335,819	409,088	482,358
MIL-C-44050	931,117	1,149,878	1,876,281	2,602,582	3,328,884	4,055,187	4,781,489
MIL-C-483	271,834	243,808	397,984	552,001	706,048	860,096	1,014,143
MIL-C-484	2,312,488	2,112,551	3,446,782	4,781,036	6,115,277	7,449,520	8,783,762
MIL-C-5040	4,006,762	3,895,143	4,400,182	4,905,819	5,411,157	5,916,497	6,421,835
MIL-C-508	1,357,184	1,310,584	1,875,187	2,739,745	3,604,329	4,268,909	5,033,491
MIL-C-51251	250,860	225,471	387,874	510,277	652,680	795,083	937,486
MIL-C-6590	249,189	221,345	381,142	500,940	640,737	780,533	920,330
MIL-C-7020	1,070,409	1,070,036	1,072,405	1,074,775	1,077,144	1,079,514	1,081,883

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-C-7040	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030
MIL-C-7219	1,191,729	1,010,063	1,637,316	2,264,565	2,891,816	3,519,065	4,146,317
MIL-C-7350	6,954,867	6,271,218	9,924,683	13,578,150	17,231,617	20,885,082	24,538,549
MIL-C-7515	2,728,578	2,713,920	2,760,092	2,806,264	3,852,436	2,898,608	2,944,781
MIL-C-8061	408	383	625	867	1,108	1,350	1,592
MIL-C-81393	930	838	1,384	1,892	2,421	2,949	3,477
MIL-C-81814	165,423	138,215	222,247	306,278	394,309	480,339	566,371
MIL-C-823	463,667	412,647	673,265	933,884	1,194,502	1,455,122	1,715,740
MIL-C-83242	80,878	68,428	106,384	150,339	192,295	234,249	276,206
MIL-C-83398	69,628	56,030	91,418	126,806	162,193	197,581	232,968
MIL-C-83429	967,698	925,997	1,510,837	2,095,677	2,680,517	3,265,357	3,850,197
MIL-C-83450	52,998	43,525	71,014	98,504	125,993	153,483	180,972
MIL-F-21840	5,462,853	6,294,687	10,268,582	14,243,508	18,218,449	22,193,389	26,170,313
MIL-F-43539	157,517	134,245	219,032	303,818	388,605	473,391	558,178
MIL-G-3866	409,940	341,546	557,260	772,974	988,688	1,204,400	1,420,114
MIL-H-41802	139,625	470,431	767,546	1,064,660	1,361,775	1,658,889	1,956,003
MIL-L-11075	14,880	12,695	20,712	28,730	36,747	44,765	52,783

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-L-1870	37,200	31,738	51,780	71,824	91,868	111,912	131,957
MIL-L-1709	441,526	371,724	606,500	788,288	1,076,046	1,310,821	1,545,594
MIL-L-40051	47,278	39,773	64,893	90,012	115,132	140,252	165,372
MIL-L-40069	1,800	1,604	2,617	3,629	4,642	5,655	6,668
MIL-P-15084	322,272	270,553	441,429	612,306	783,181	954,058	1,124,934
MIL-R-1670	156,000	138,945	226,699	314,454	402,205	489,963	577,717
MIL-R-17343	1,875,000	540,568	881,979	1,223,390	1,564,801	1,906,212	2,247,624
MIL-R-24049	6,750,000	1,646,044	3,175,124	4,404,204	5,633,284	6,862,365	8,091,445
MIL-R-30500	4,989,083	1,697,252	2,769,201	3,841,150	4,913,098	5,985,048	7,056,998
MIL-S-43355	199,464	672,045	1,096,494	1,520,943	1,945,392	2,369,841	2,794,291
MIL-S-6790	28,773	26,659	43,498	60,336	77,173	94,012	110,849
MIL-T-2283	208,883	188,091	274,254	380,417	486,579	592,742	698,905
MIL-T-34548	317,520	258,031	420,998	583,965	746,931	909,898	1,072,865
MIL-T-40625	342,264	270,438	441,237	612,042	782,843	953,642	1,124,444
MIL-T-43548	8,346,309,232	6,712,983,651	952,606,228	5,192,324,767	9,432,043,304	3,671,761,850	7,301,745,7[illegible]
MIL-T-43566	17,348,085	22,621,580	36,808,897	51,196,208	65,483,521	79,770,833	94,055,151
MIL-T-43624	49,675,320	8,881,555	14,490,959	20,100,362	25,709,765	31,319,168	36,928,57[illegible]

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-T-43836	30,476,623	36,877,123	60,167,936	83,458,751	106,749,565	130,040,378	153,331,192
MIL-T-43709	16,793	11,700	19,090	26,479	33,869	41,260	48,649
MIL-T-5038	5,437,836	5,009,240	8,073,481	11,137,717	14,201,957	17,266,197	20,330,433
MIL-T-5661	33,059	32,987	33,442	33,897	34,352	34,807	35,262
MIL-T-6134	47,136	47,136	47,136	47,136	47,136	47,136	47,136
MIL-T-83193	95,951,076	68,737,703	144,782,563	200,827,433	256,872,299	312,917,163	368,962,029
MIL-T-8363	185	188	274	380	487	593	699
MIL-W-17337	53,801	62,310	101,564	141,018	180,371	219,724	259,080
MIL-W-27205	579,742	584,853	616,792	668,731	720,670	772,609	824,548
MIL-W-4088	7,049,183	6,011,765	9,625,412	13,239,059	16,852,703	20,466,349	24,079,997
MIL-W-43566	291	291	291	291	291	291	291
MIL-W-43838	2,599,693	2,231,774	3,641,315	5,050,858	6,460,402	7,869,940	9,279,484
MIL-W-43868	3,155,603	2,235,883	3,647,987	5,060,112	6,472,238	7,884,362	9,296,488
MIL-W-43865	395,507	331,868	541,469	751,071	960,673	1,170,274	1,379,874
MIL-W-43888	380,497	319,137	520,697	722,258	923,818	1,125,378	1,326,938
MIL-W-5038	4,252	4,252	4,252	4,252	4,252	4,252	4,252
MIL-W-530	12,894,445	11,297,395	18,432,592	25,567,788	32,702,983	39,838,178	46,973,376

SCENARIO D

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
MIL-W-5625	10,858	10,858	10,858	10,858	10,858	10,858	10,858
MIL-W-5664	578,499	505,560	824,863	1,144,183	1,463,466	1,782,766	2,102,069
MIL-W-5665	489,447	325,763	401,224	476,686	552,147	627,608	703,069
MIL-W-844	3,049,590	3,196,539	5,215,405	7,234,272	9,253,139	11,272,005	13,290,872
PPP-T-60	393	393	393	393	393	393	393
T-C-571	611,340	530,415	865,416	1,200,414	1,535,414	1,870,414	2,205,412
T-R-605	9,072	2,026	3,306	4,585	5,864	7,144	8,424
T-R-616	3,960	151	246	341	436	531	627
T-T-871	1,220,304	872,677	1,586,997	2,201,317	2,815,642	3,429,963	4,044,288
T-T-881	22,643	17,671	28,832	39,993	51,154	62,317	73,476
T-T-911	1,023,636	820,531	1,338,782	1,856,992	2,375,222	2,893,454	3,411,683
V-B-871	183,200	182,936	298,475	414,013	529,552	645,091	760,628
V-F-106	154,200	38,741	63,209	87,677	112,145	136,612	161,080
V-L-61	1,419,410	1,237,916	2,019,756	2,801,600	3,583,441	4,365,283	5,147,124
V-T-155	52,494	44,717	72,858	101,201	129,443	157,685	185,927
V-T-276	1,116,873,244	1,262,747,090	2,060,271,572	2,857,796,053	3,655,320,536	4,452,845,012	5,250,369,495
V-T-280	34,253,864	37,548,221	61,259,630	84,973,033	108,686,436	132,399,542	156,113,248

SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
V-T-285	1,201,603,692	1,042,215,653	1,700,457,123	2,358,698,595	3,010,940,066	3,675,181,529	4,333,422,995
V-T-295	461,305,713	435,656,262	700,527,595	965,398,930	1,230,270,267	1,495,141,599	1,760,012,932
V-T-301	3,409,790	2,845,909	4,843,325	6,440,742	8,238,158	10,035,575	11,832,991

APPENDIX H. STUDY END-ITEM QUANTITIES DEMANDED BY SCENARIO

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36	REC NO.
	88442	635352	555375	799213	929199	991228	991579	991341	
DDD-L-20	B1851F	415,524	318,114	484,274	536,090	558,671	555,361	551,834	660
	B21154B	4,200	3,740	5,569	6,435	6,780	6,787	6,883	667
	B31088G	676,812	497,808	720,931	845,531	895,211	895,954	892,021	676
	B31C8G	676,512	497,808	720,931	845,531	895,211	895,954	892,021	4388
	B3769D	7,500	6,521	12,898	14,902	15,429	15,241	15,222	716
	B43250F	44,328	32,560	47,000	55,088	56,346	56,414	56,154	691
	B43368A	52,392	100,543	149,515	173,774	181,252	179,768	178,973	731
	B43828A	433,032	31,301	45,181	52,956	56,088	56,153	55,904	751
	B44053	66,556	100,543	149,515	173,774	181,252	179,768	178,973	781
	B829J	709,824	518,796	761,625	887,970	932,823	929,454	926,391	809
	B83268A	144,024	69,665	147,223	173,643	182,879	181,821	180,218	828
	C14610E	46,212	36,380	52,542	61,590	65,059	64,563	64,274	15
	C16472F	270,600	189,644	262,468	310,840	337,700	343,584	344,223	35
	C17614E	6,012	3,838	5,345	6,573	7,311	7,470	7,478	44
	C17664C	7,308	5,131	7,184	8,617	9,525	9,751	9,880	61
	C17669D	2,868	2,033	2,861	3,451	3,816	3,905	3,959	78
	C1911G	11,112	8,892	13,637	15,757	16,086	15,714	15,490	95
	C21085E	6,588	7,663	11,470	13,254	14,484	14,657	15,503	112
	C21181C	73,608	60,994	87,858	101,522	110,794	113,804	118,750	148
	C21709D	9,732	8,412	8,832	10,811	12,018	12,283	12,290	157
	C2181J	3,264	3,147	4,543	5,325	5,640	5,847	5,622	177
	C2202F	514,812	401,589	577,126	676,705	715,480	716,607	712,690	202
	C29138	72,384	57,633	80,482	98,790	108,990	109,525	110,987	215
	C29386A	757,598	1,737,496	2,372,258	2,740,800	2,893,225	2,913,029	2,851,680	227
	C29373A	6,912	5,733	8,258	9,543	10,414	10,697	11,162	244
	C29380A	36,000	29,860	43,011	49,701	54,240	55,714	58,135	258
	C29381	300	623	726	868	987	1,015	1,020	278
	C3771E	60,960	501,474	732,339	834,683	910,910	935,662	976,323	306
	C38488A	660	483	659	761	804	809	795	332
	C401315	31,200	27,571	40,631	46,946	48,715	48,258	47,676	368
	C40143E	58,392	42,553	65,264	76,406	76,981	75,202	74,132	383
	C41833B	68,158	61,693	93,376	107,889	111,706	110,342	110,208	417
	C43199F	57,356	46,128	68,703	81,755	86,548	86,610	88,212	440
	C43368C		198,618	304,627	351,964	359,314	351,010	346,018	458
	C434198	471,780	344,117	527,783	609,797	622,633	604,145	598,492	492
	C43455E	748,598	588,508	849,402	985,565	1,054,447	1,085,875	1,080,872	512
	C43507A	1,383	65	100	116	118	116	114	558
	C43544	383,782	288,738	416,768	488,498	517,352	517,931	515,621	590
	C43549A	480,600	343,674	496,045	581,402	615,784	616,497	613,748	4401
	C43742B	485,628	353,662	510,453	598,288	633,670	634,405	631,573	625
	C43827B	617,524	398,292	573,918	673,107	712,656	713,247	710,118	4191
	C43830A	24,204	17,595	25,795	29,603	31,038	30,835	30,640	4212
	C43972A	61,680	14,434	22,136	25,579	26,113	25,509	25,148	4227
	C44001	222,000	171,652	247,773	290,410	307,586	307,944	306,577	4266
	C44030	299,052	217,671	333,850	385,728	393,784	384,662	379,209	4278
	C44048	3,800,000	3,227,582	4,874,292	5,482,149	5,804,166	5,808,953	5,783,404	4308
	C82186A	81,956	51,439	74,094	85,618	93,437	95,976	100,147	4323
	C83141A	183,305	137,410	202,070	233,468	241,165	238,144	234,440	4351
	C83195	198,938	128,769	178,775	203,083	214,348	215,797	211,938	840
	C87071	281,498	214,545	299,588	360,330	398,317	407,751	413,166	871

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36	REC NO.
DDD-L-20	DDC628E	31,356	20,973	30,113	36,032	38,801	39,030	38,863	3722
	DDS281K	427,044	278,078	382,100	452,508	491,605	500,170	501,107	3747
	DDT551K	2,050,296	1,616,341	2,337,287	2,739,431	2,901,382	2,904,716	2,891,740	3762
	DES1074	72,864	57,820	83,735	98,207	103,977	104,064	103,607	4020
	DES1180	5,000	3,915	5,925	6,846	7,088	7,002	6,993	3858
	DES1278	199,464	155,615	226,740	263,594	274,498	272,720	270,888	4127
	DES1279	5,808	5,433	8,223	9,501	9,837	9,717	9,705	4092
	DES1378	3,000	2,579	3,903	4,510	4,670	4,613	4,607	4139
	DES1473	61,860	45,539	65,652	77,348	81,888	81,854	81,592	4104
	DES1473	5,808	5,433	8,223	9,501	9,837	9,717	9,705	4182
	DES1480	5,808	5,433	8,223	9,501	9,837	9,717	9,705	3979
	DES1580	5,808	1,097	1,579	1,825	1,992	2,048	2,135	4074
	DES1973	147,720	125,455	181,885	213,087	225,806	225,792	224,799	3921
	DES2073	121,956	103,637	150,069	176,029	186,372	186,527	185,708	3999
	DES2573	48,792	35,861	52,080	61,081	64,689	64,722	64,436	4044
	DES3073	7,860	9,254	13,567	15,678	16,324	16,218	16,116	3888
	DES4071	76,308	58,139	81,301	95,353	100,955	101,039	100,598	4117
	DES6798	199,464	157,488	227,315	266,420	282,172	282,498	281,236	3933
	DES979	3,000	2,579	3,903	4,510	4,670	4,613	4,607	4156
	D15390K	553,404	439,301	634,310	744,762	785,908	784,263	778,950	891
	D2525D	852	456	667	771	802	797	792	909
	D40099F	1,455,876	1,129,388	1,583,109	1,851,141	2,011,089	2,046,128	2,049,864	925
	D43268B	495,000	401,891	590,018	694,437	736,224	735,895	735,450	942
	D43783C	3,788,844	3,076,381	4,440,288	5,204,290	5,511,874	5,518,321	5,493,881	957
	F12224F	1,171,598	879,142	1,288,872	1,489,184	1,550,760	1,540,709	1,530,979	989
	F18880B	516	558	803	928	1,013	1,040	1,085	986
	F43832B	45,456	33,267	48,176	56,504	59,824	59,874	59,811	1013
	F43833B	186,804	135,982	196,931	230,967	244,538	244,741	243,367	1052
	G17602D	582,356	411,929	594,352	696,858	738,070	738,227	735,632	1092
	G21893C	5,544	3,516	4,842	5,627	6,587	6,734	6,738	1104
	G3866E	89,498	76,139	118,777	134,924	137,742	134,558	132,844	1113
	G41817C	103,056	69,612	100,477	117,789	124,727	124,865	124,297	1123
	G43755B	73,584	48,362	70,088	82,350	86,561	86,643	85,723	1130
	G81188B	196,892	142,521	205,709	241,109	255,362	255,653	254,503	1143
	G835F	1,105,140							1154
	H12225F	2,892	2,046	2,953	3,461	3,666	3,670	3,654	1167
	H17024E	3,516	2,314	3,187	3,901	4,335	4,432	4,434	1185
	H19448B	9,372							1212
	H3697C	2,640	1,677	2,751	3,179	3,310	3,289	3,288	1246
	H41802D	1,142,748	805,847	1,163,109	1,363,238	1,443,879	1,445,571	1,439,154	1258
	H43577C	3,900	2,745	3,927	4,595	4,867	4,879	4,847	1271
	H43595A	1,788	1,103	1,628	1,885	1,949	1,924	1,898	1291
	H43879	3,852	5,871					4,844	1311
	H87041	1,167,643	749,382	1,043,758	1,283,600	1,427,559	1,458,747	1,460,193	1328
	I43748A	6,000	2,148	3,156	3,648	3,766	3,719	3,662	1343
	I43903	240	133	192	228	238	238	235	1351
	JJU513D	5,719,020	4,838,133	6,983,160	8,184,648	8,668,507	8,678,475	8,639,698	3773
	J21708E	121,128	81,174	111,791	136,832	152,078	155,459	155,550	1358
	J43923A	6,708	5,315	8,152	9,419	9,615	9,393	9,259	1382
	J43924B	5,388	4,252	6,521	7,535	7,692	7,514	7,408	1421

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36	REC NO.
DDD-L-20	J43982A	55,358	40,359	61,889	71,518	73,012	71,324	70,310	1459
	J43990	50,604	36,894	56,588	65,379	66,745	65,202	64,274	1481
	J44020	46,278	35,220	54,016	62,412	63,718	62,243	61,387	1491
	J822938	146,172	124,756	174,207	209,533	231,623	237,109	240,255	1503
	J822898	14,256	9,635	13,133	16,078	17,667	18,284	18,278	1523
	J833828	26,666	18,364	25,185	29,865	32,554	33,046	32,793	1553
	J833888	27,840	17,842	24,468	29,142	31,627	32,108	31,880	1585
	J87035A	225,818	144,888	201,802	248,175	276,008	282,038	282,318	1627
	J87037A	175,200	1,062,557	1,507,808	1,884,288	2,062,252	2,107,305	2,109,394	1638
	KP148E	7,020	3,693	5,207	6,158	6,632	6,707	6,699	3787
	LPP182	10,478	7,460	10,804	12,672	13,416	13,427	13,368	3848
	L41800F	199,464	614,298	929,406	1,077,502	1,109,534	1,090,224	1,077,403	1665
	L43335C	110,520	87,334	128,084	147,757	156,496	156,678	155,983	1663
	L43466C	146,666	103,371	149,202	174,872	185,211	185,424	184,598	1702
	L43466C	146,663	103,371	149,202	174,872	185,211	185,424	184,598	1720
	L43498B	137,984	103,043	149,601	172,849	179,899	178,832	177,703	1739
	L43536D	501,756	382,257	522,869	612,830	649,057	649,802	646,898	1753
	L43672B	6,084	4,558	6,658	7,672	8,346	8,342	8,337	1771
	M11199F	40,620	29,189	42,129	49,378	52,299	52,359	52,125	1787
	M2418F	7,056	4,952	7,172	8,411	8,906	8,913	8,874	1810
	M43284B	49,068	35,210	51,654	61,210	64,584	64,258	63,733	1825
	M43945	71,028	51,350	75,282	88,980	90,578	89,991	89,423	1840
	M809D	114,744	85,698	125,062	144,406	150,492	149,602	148,653	1881
	M810G	159,072	116,591	168,228	197,170	208,628	208,066	208,131	1897
	M834J	26,438	26,746	38,803	45,246	47,922	47,677	47,762	1924
	N29367A	26,932	18,590	26,833	31,451	33,311	33,350	33,202	1980
	N41804C	5,237,058	4,222,044	6,073,276	7,025,880	7,642,388	7,630,220	8,129,153	1973
	N43741	2,880	2,101	3,080	3,570	3,687	3,641	3,594	1985
	O22776C	138,228	100,580	139,179	164,825	179,068	182,186	182,528	2000
	O2414F	96,696	64,635	90,025	110,712	123,128	125,618	125,943	2017
	O82250C	2,484	1,594	2,178	2,513	2,643	2,671	2,623	2069
	P10809E	13,884	9,680	14,379	16,850	17,838	17,808	17,785	2113
	P21593C	444	368	547	632	662	650	667	21 0
	P43496C	231,838	163,954	240,969	282,449	299,136	299,473	298,133	2162
	P43907A	583,928	598,423	877,359	678,382	715,563	713,782	706,198	2222
	P6279J	90,312	71,010	104,424	120,650	124,625	123,072	121,157	2251
	P82277C	170,376	116,817	181,676	191,452	207,993	211,804	212,001	2295
	R43323D	3,240	2,401	3,531	4,080	4,214	4,181	4,097	2312
	R83290C	82,786	63,327	88,429	106,360	117,674	120,358	121,858	2326
	S10858G	346,560	254,045	368,677	429,768	455,174	455,898	453,662	2344
	S10926F	154,248	109,205	158,152	185,488	196,383	196,545	195,881	2363
	S12849G	3,787,044	2,856,663	3,683,412	4,318,088	4,577,534	4,584,703	4,583,783	2373
	S1698F	4,820	3,608	5,323	6,181	6,397	6,347	5,312	4463
	S17868B	4,784	4,028	5,803	6,705	7,318	7,518	7,843	2384
	S18984C	233,788	183,858	278,378	352,830	352,313	361,888	377,612	2393
	S210878	13,728	11,387	16,402	18,953	20,683	21,248	22,169	2404
	S28997A	11,412	20,758	28,912	35,558	39,544	40,408	40,448	2421
	S29145A	288,660	183,663	289,588	331,550	338,738	378,780	377,164	2438
	S29364B	16,656	13,807	19,868	22,982	25,080	25,784	26,882	2449
	S29368A	9,816	8,138	11,722	13,548	14,782	15,184	15,844	2469

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36	REC NO.
DDD-L-20	S3725D	189,588	142,399	208,765	241,207	251,184	249,556	247,980	3827
	S40128E	63,720	12,920	18,468	21,338	23,287	23,920	24,939	2483
	S405F	430,764	384,389	525,813	616,398	652,638	653,589	650,668	2468
	S43013C	4,176	3,079	4,528	5,231	5,403	5,338	5,253	2510
	S43178B	336	208	306	353	365	360	355	2526
	S43357C	94,356	74,605	105,337	127,056	134,616	134,628	134,034	2539
	S43488B	84	58	89	102	104	102	101	2557
	S43502A	3,552	2,814	4,316	4,988	5,090	4,973	4,902	2572
	S43605C	154,176	123,857	185,887	216,126	223,705	218,534	216,428	2583
	S43526B	3,698	2,839	4,507	5,208	5,317	5,194	5,120	2596
	S43828	117,780	84,832	122,865	144,088	152,554	152,879	152,008	2612
	S43828A	252,836	186,142	269,578	316,169	334,740	335,014	333,641	2621
	S43835B	600,828	484,472	672,812	787,835	834,589	836,038	834,280	2341
	S43928B	352,056	1,582,606	2,290,883	2,646,868	2,756,364	2,738,612	2,721,237	2687
	S43988	66,672	46,615	74,563	86,149	87,848	85,516	84,693	2705
	S43996	98,124	71,537	109,719	125,768	128,418	128,425	124,828	2720
	S44041	1,454,028	314,440	482,268	557,207	568,845	555,897	547,791	2741
	S48J	4,731,120	4,872,141	7,067,222	8,339,335	8,880,540	8,802,790	8,685,049	2753
	S87016	311,832	202,392	281,417	333,710	362,497	368,722	369,487	2760
	S87027	182,832	126,798	182,844	211,050	230,324	238,582	246,863	2769
	T10009F	680	498	734	848	876	865	851	2783
	T10035H	7,032	5,636	8,463	9,779	10,139	10,029	10,004	2819
	T10168H	84	59	86	101	107	106	105	2858
	T1110E	600	450	653	787	808	808	787	2878
	T1111E	1,128	854	1,236	1,450	1,535	1,537	1,530	2907
	T12354D	708	528	774	894	931	925	919	2948
	T14038H	288	214	316	365	377	372	368	3008
	T1712N	9,060	6,927	10,032	11,768	12,457	12,467	12,413	3083
	T1870H	200,796	151,806	218,197	257,367	271,588	271,017	268,145	3098
	T1926F	2,652	1,978	2,804	3,355	3,485	3,422	3,389	3126
	T21704D	3,060	2,199	3,029	3,708	4,121	4,213	4,216	3146
	T21705D	5,064	3,651	5,029	6,155	6,843	6,993	6,997	3172
	T26369	319,212	284,839	381,482	440,813	471,071	494,143	518,617	3198
	T41810F	5,052	3,621	5,617	6,490	6,712	6,635	6,543	3228
	T41812F	398	39	60	69	71	69	68	3271
	T41813D	3,600	3,066	4,641	5,362	5,552	5,484	5,477	3307
	T41834F	61,212	33,778	39,739	45,144	49,631	51,050	50,737	3347
	T43217F	902,532	833,610	881,408	1,042,896	1,129,305	1,146,523	1,147,133	3361
	T43492B	1,486	1,116	1,641	1,895	1,958	1,934	1,804	3397
	T43497B	507,480	271,942	392,508	460,042	487,240	487,801	485,622	3446
	T43654B	33,350	25,873	37,345	43,772	46,358	46,410	46,200	3466
	T43984	50,544	36,837	56,498	65,277	66,640	65,100	64,174	3483
	T44047	3,777,372	3,209,883	4,648,370	5,451,747	5,771,998	5,776,738	5,751,330	3494
	T6284K	50,556	38,657	56,844	65,076	67,639	66,992	65,950	3515
	T82182A	284	248	367	412	450	462	482	3578
	T83385	1,116	787	1,085	1,294	1,405	1,425	1,414	3593
	T87020	25,704	18,502	22,984	28,268	31,436	32,122	32,164	3618
	T87038A	228,456	144,643	201,482	247,756	275,543	281,863	281,842	3628
	T87067	236,772	181,935	211,618	260,246	289,433	295,756	296,049	3644
	U17811F	554,364	459,276	661,721	776,650	818,874	818,158	809,485	3666
DDD-L-20	U43262B	508,080	451,377	665,653	784,139	830,981	830,265	829,896	3675
	VP358D	281,660	177,077	255,583	299,559	317,271	317,637	316,218	3819
	V43707B	2,040	1,693	2,487	2,842	3,117	3,116	3,113	3850
DDD-L-20	**TOTAL	65,985,775	54,801,012	79,061,018	92,634,841	98,533,869	98,849,391	98,955,499	

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SCENARIO C

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36	REC NO.
DD-L-20	D43783C	3,788,544	2,381,812	2,557,248	2,765,787	2,874,995	2,903,422	2,987,921	981
DD-L-20	**TOTAL	3,788,544	2,381,812	2,557,248	2,765,787	2,874,995	2,903,422	2,987,921	
DDD-L-20	B1851F	415,524	237,213	260,429	285,987	300,531	305,031	315,983	662
	B21154B	4,200	2,558	2,828	3,332	3,539	3,632	3,788	671
	B3108G	678,512	380,802	412,698	448,798	484,620	489,168	482,913	683 x
	B3108G	678,512	380,802	412,698	448,798	484,620	489,168	482,913	4392
	B3759D	7,500	6,000	6,785	7,745	8,309	8,492	8,584	721
	B43290F	44,328	24,994	27,083	29,271	30,427	30,728	31,822	699
	B43368A	52,392	73,721	81,524	91,172	98,660	98,258	102,151	738
	B43828A	433,032	24,028	26,016	28,138	29,250	29,539	30,399	754
	B44053	88,558	73,721	81,524	91,172	98,660	98,258	102,151	777
	B829J	709,824	388,594	424,403	468,288	492,379	499,437	517,116	818
	B83268A	144,024	78,322	82,830	90,958	95,645	98,553	99,798	830
	B844L	635,352	437,477	468,163	497,429	511,722	514,717	528,708	2
	C14810E	49,212	28,495	30,581	32,909	34,209	34,448	35,420	24
	C18472F	270,600	151,372	161,145	167,391	169,160	169,737	172,185	38
	C17814E	8,012	3,212	3,342	3,449	3,482	3,438	3,458	52
	C17864C	7,308	4,018	4,320	4,585	4,630	4,661	4,735	65
	C17889D	2,808	1,577	1,700	1,799	1,825	1,838	1,865	83
	C1911G	11,112	6,412	7,140	8,213	8,882	9,047	9,488	99
	C21085E	8,588	5,114	6,059	6,811	7,079	7,330	7,595	131
	C21181C	73,608	39,178	48,415	52,175	54,228	56,149	58,175	153
	C21709D	9,732	5,407	5,622	5,800	5,824	5,793	5,832	163
	C2181J	3,264	2,416	2,816	2,830	2,941	2,970	3,057	186
	C2202F	514,812	310,043	334,798	360,178	373,427	376,793	387,289	207
	C29138	72,384	45,088	48,507	51,268	52,011	52,363	53,190	219
	C29368A	787,598	1,428,744	1,498,611	1,515,013	1,522,143	1,519,745	1,538,651	232
	C29373A	6,912	3,682	4,363	4,904	5,097	5,278	5,460	251
	C29380A	38,000	19,179	22,723	25,543	26,547	27,488	28,480	268
	C29381	300	438	458	470	472	469	472	291
	C3771E	60,960	322,094	381,813	428,968	445,827	461,637	478,290	320
	C38488A	880	397	416	421	423	422	427	344
	C40131B	31,200	20,334	22,392	24,803	26,205	26,609	27,830	373
	C40143E	58,392	30,687	34,169	39,304	42,505	43,298	45,407	400
	C41833B	68,158	43,435	48,978	56,073	60,158	61,480	64,320	425
	C43199F	57,388	38,841	39,914	43,208	44,929	45,385	48,692	445
	C43368C		143,234	159,485	183,458	198,393	202,067	211,939	477
	C43419B	471,780	248,162	278,318	317,848	343,728	350,144	367,197	501
	C43455E	745,598	451,808	489,197	529,083	549,972	555,411	571,573	528
	C43507A	1,383	47	52	60	65	68	70	587
	C43544	393,792	221,828	239,988	259,591	269,865	272,541	280,485	602
	C43549A	480,600	263,847	285,879	308,971	321,171	324,348	333,784	4411
	C43742B	485,628	271,518	293,884	317,952	330,508	333,770	343,485	834
	C43827B	517,524	303,147	328,539	355,885	369,872	373,492	384,435	4198
	C43830A	24,204	13,051	14,350	15,784	16,599	16,847	17,459	4217
	C43972A	61,680	10,409	11,580	13,333	14,418	14,667	15,403	4240
	C44001	222,000	131,781	142,871	154,310	160,404	161,931	166,708	4270
	C44030	299,052	156,975	174,784	201,055	217,425	221,484	232,270	4288

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36	REC NO.
DDD-L-20	C44048	3,800,000	2,468,985	2,675,773	2,896,893	3,012,472	3,041,947	3,131,015	4312
	C82186A	81,956	33,039	39,144	44,002	45,731	47,353	49,061	4339
	C83141A	183,308	104,288	113,372	124,287	130,932	132,456	137,288	4363
	C83195	198,936	105,826	110,985	112,288	112,802	112,608	113,899	851
	C87071	251,496	187,909	189,608	190,888	193,621	194,919	197,988	877
	DDC823E	31,356	16,706	17,796	18,107	19,745	19,828	20,298	3728
	DDS281K	427,044	220,344	234,579	243,679	246,256	247,100	250,666	3752
	DDT551K	2,050,296	1,243,197	1,346,073	1,455,840	1,513,340	1,528,308	1,572,787	3786
	DES1074	72,884	44,230	47,934	51,895	53,985	54,493	56,090	4012
	DES1180	5,000	2,756	3,108	3,558	3,817	3,901	4,081	3888
	DES1278	199,484	115,428	129,918	139,603	146,810	149,003	154,411	4124
	DES1279	5,808	3,825	4,313	4,938	5,298	5,414	5,664	4087
	DES1378	3,000	1,816	2,047	2,344	2,515	2,570	2,689	4135
	DES1473	81,860	34,835	37,752	40,873	42,505	42,921	44,179	4098
	DES1478	5,808	3,825	4,313	4,938	5,298	5,414	5,664	4172
	DES1480	5,808	3,825	4,313	4,938	5,298	5,414	5,664	3972
	DES1580	5,808	704	834	938	975	1,009	1,048	4065
	DES1973	147,720	95,970	104,007	112,800	117,092	118,237	121,701	3925
	DES2073	121,956	79,278	85,919	93,018	96,728	97,675	100,536	3993
	DES2573	48,792	27,511	29,814	32,277	33,585	33,893	34,888	4037
	DES3073	7,860	6,864	7,548	8,302	8,731	8,861	9,183	3898
	DES4071	76,308	42,944	46,541	50,387	52,398	52,909	54,459	4111
	DES8798	199,484	120,906	130,911	141,586	147,177	148,633	152,959	3941
	DES979	3,000	1,816	2,047	2,344	2,515	2,570	2,689	4150
	D15390K	553,404	343,968	368,913	397,264	412,965	416,821	427,577	897
	D2525D	552	337	371	408	429	436	451	914
	D40099F	1,455,876	901,387	969,622	996,848	1,007,393	1,010,848	1,026,433	931
	D432618	495,000	301,872	330,188	364,880	382,918	387,983	401,121	947
	F12224F	1,171,698	652,114	717,025	788,685	829,392	841,790	872,345	974
	F186808	516	368	424	477	496	513	532	998
	F43832B	45,456	25,448	27,579	29,858	31,049	31,353	32,272	1028
	F43833B	186,804	104,021	112,734	122,048	126,917	128,159	131,914	1065
	G17802D	562,356	316,249	342,417	370,335	384,857	388,783	400,076	1096
	G21893C	5,544	2,964	3,082	3,180	3,193	3,176	3,197	1109
	G3868E	89,496	54,908	61,138	70,327	76,053	77,473	81,248	1118
	G41817C	103,056	53,459	57,674	62,589	65,060	65,700	67,611	1127
	G437558	73,584	37,738	40,506	43,662	45,406	45,713	47,014	1133
	G81188B	196,992	109,429	118,477	128,134	133,193	134,508	138,421	1147
	G835F	1,105,140							1158
	H12225F	2,892	1,570	1,700	1,839	1,912	1,931	1,987	1173
	H12225F	2,892	1,570	1,700	1,839	1,912	1,931	1,987	4457X
	H17024E	3,516	1,851	2,028	2,092	2,101	2,090	2,104	1194
	H19448B	9,372							1217
	H3697C	2,640	1,362	1,531	1,684	1,771	1,797	1,882	1250
	H41802D	1,142,748	618,626	669,838	724,462	753,066	760,519	782,651	1262
	H43577C	3,900	2,132	2,294	2,449	2,528	2,547	2,613	1278
	H43595A	1,788	834	908	1,000	1,056	1,069	1,108	1298
	H43879	3,852	4,289					2,648	1316
	H87041	1,167,648	627,213	652,514	673,582	675,957	671,258	675,337	1334
	I43746A	8,000	1,629	1,771	1,941	2,045	2,069	2,144	1346

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SCENARIO C

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36	REC NO.
DDD-L-20	I43903	240	103	111	120	125	125	129	1353
	JJU513D		3,714,313	4,021,682	4,349,841	4,521,438	4,566,152	4,699,053	3776
	J21708E	121,128	68,453	71,173	73,420	73,734	73,334	73,833	1368
	J43923A	6,708	3,833	4,266	4,909	5,309	5,408	5,672	1395
	J43924B	5,388	3,066	3,414	3,927	4,247	4,327	4,537	1434
	J43982A	55,356	29,105	32,407	37,276	40,313	41,066	43,066	1470
	J43990	50,604	26,607	29,625	34,078	36,853	37,541	39,369	1486
	J44020	48,276	25,399	28,281	32,531	35,180	35,837	37,582	1497
	J82293B	146,172	97,844	105,025	110,986	112,586	113,342	115,125	1509
	J82299B	14,256	8,040	8,380	8,624	8,661	8,614	8,672	1533
	J83382B	28,868	15,295	16,967	18,321	16,393	18,333	18,487	1564
	J83388B	27,840	14,860	15,513	15,856	15,927	15,868	16,016	1599
	J87035A	225,816	121,267	126,159	130,232	130,691	129,783	130,571	1633
	J87037A	175,200	906,072	942,622	973,056	976,487	969,699	975,692	1644
	KP146E	7,020	2,919	3,120	3,282	3,346	3,363	3,427	3786
	LPP182	10,476	5,707	6,185	6,696	6,963	7,031	7,237	3850
	L41800F	199,464	449,503	497,211	563,900	604,443	614,571	641,860	1669
	L41800F	199,464	449,503	497,211	563,900	604,443	614,571	641,860	1681
	L43335C	110,520	67,038	72,589	78,511	81,612	82,419	84,818	1690
	L43466C	146,568	79,359	85,927	92,934	96,804	97,560	100,399	1726
	L43466C	146,568	79,359	85,927	92,934	96,804	97,560	100,399	1708
	L43498B	137,964	75,692	83,228	91,544	96,270	97,708	101,254	1744
	L43536D	501,756	278,108	301,123	326,661	338,546	341,895	351,847	1769
	L43672B	6,084	3,416	3,742	4,134	4,340	4,398	4,547	1776
	M11199F	40,620	22,410	24,264	26,242	27,276	27,547	28,349	1793
	M2418F	7,056	3,788	4,106	4,445	4,622	4,667	4,804	1815
	M43294B	49,068	27,069	29,288	32,258	33,927	34,260	35,406	1830
	M43945	71,028	38,089	41,881	46,066	48,444	49,168	50,953	1850
	M809D	114,744	63,908	70,159	77,041	80,957	82,169	85,118	1885
	M810G	159,072	89,479	96,883	104,784	108,922	109,999	113,200	1907
	M834J	26,436	20,534	22,233	24,045	24,995	25,242	25,976	1933
	N29367A	26,932	14,269	15,451	16,711	17,371	17,543	18,054	1967
	N41804C	8,237,088	2,775,909	3,246,622	3,626,679	3,767,816	3,889,476	4,025,158	1977
	N43741	2,880	1,595	1,733	1,900	2,002	2,025	2,099	1988
	O22776C	138,228	80,258	85,444	88,758	89,697	90,005	91,304	2004
	O2414F	96,696	54,096	56,260	58,097	58,302	57,897	58,246	2034
	O82250C	2,484	1,310	1,373	1,390	1,398	1,394	1,411	2086
	P10809E	13,884	7,648	8,280	8,954	9,308	9,400	9,673	2118
	P21593C	444	252	287	328	349	358	373	2135
	P43498C	231,828	128,185	138,775	150,101	156,036	157,580	162,170	2193
	P43907A	563,928	310,911	333,708	359,688	374,048	376,568	387,281	2231
	P8278J	90,312	53,903	58,895	64,220	67,661	68,446	70,933	2266
	P82277C	170,376	93,225	99,253	103,104	104,198	104,555	106,066	2301
	R43323D	3,240	1,822	1,981	2,171	2,288	2,314	2,399	2316
	R82280C	92,798	49,565	53,312	56,339	57,151	57,534	58,439	2335
	S10858G	346,560	195,036	211,175	228,395	237,416	239,763	246,741	2360
	S10926F	154,248	83,539	90,535	98,015	101,925	102,922	105,937	2387
	S12549G	3,787,044	1,966,848	2,127,216	2,296,864	2,385,274	2,407,966	2,476,758	2378
	S1698F	4,920	2,652	2,929	3,246	3,427	3,483	3,616	2378
	S17888B	4,764	2,587	3,068	3,446	3,581	3,708	3,842	2387

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36	REC NO.
			SCENARIO C						
DDD-L-20	S19984C	233,798	124,578	147,598	165,912	172,432	178,547	184,990	2398
	S21087E	13,728	7,314	8,665	9,740	10,123	10,482	10,860	2412
	S28997A	11,412	17,374	18,075	18,658	18,724	18,594	18,707	2429
	S29149A	285,660	162,007	168,543	173,984	174,598	173,384	174,438	2439
	S29364B	16,658	8,868	10,507	11,811	12,275	12,710	13,189	2459
	S29368A	9,818	5,227	6,193	6,961	7,235	7,491	7,762	2478
	S3725D	189,588	105,626	116,140	127,747	134,342	136,349	141,298	3833
	S40128E	63,720	8,234	9,756	10,966	11,397	11,802	12,227	2491
	S405F	430,784	276,732	302,881	327,579	340,517	343,885	353,894	2509
	S43013C	4,176	2,337	2,540	2,784	2,934	2,968	3,076	2514
	S43176B	336	158	171	188	198	200	208	2534
	S43357C	94,356	57,222	62,016	67,141	69,820	70,504	72,570	2545
	S43488B	84	42	46	53	58	59	62	2565
	S43502A	3,552	2,029	2,259	2,599	2,811	2,863	3,003	2578
	S43505C	154,176	89,176	99,293	114,217	123,517	125,823	131,951	2588
	S43526B	3,698	2,119	2,360	2,715	2,936	2,990	3,136	2602
	S43828	117,780	64,895	70,329	76,140	79,177	79,962	82,294	2615
	S43829A	252,936	142,390	154,317	167,070	173,737	175,437	180,578	2628
	S43835B	600,828	352,016	383,242	415,963	432,809	437,687	450,822	2648
	S43926B	352,056	1,159,062	1,274,446	1,401,817	1,474,181	1,496,209	1,550,516	2679
	S43985	66,672	36,059	39,037	44,904	48,560	49,487	51,876	2714
	S43998	98,124	51,589	57,442	66,078	71,456	72,790	76,335	2726
	S44041	1,454,028	226,780	252,486	290,437	314,084	319,947	335,529	2747
	S48J	4,731,120	3,732,886	4,045,798	4,399,960	4,580,926	4,626,470	4,762,129	2755
	S87016	311,832	160,801	171,347	178,079	179,938	180,487	183,077	2765
	S87027	152,832	81,442	96,491	108,465	112,727	116,725	120,937	2773
	T10009F	660	379	412	451	475	481	498	2795
	T10035H	7,032	4,021	4,505	5,103	5,451	5,561	5,805	2834
	T10168H	84	46	50	54	56	56	58	2884
	T1110E	600	351	377	407	423	426	436	2887
	T1111E	1,128	653	708	766	797	805	828	2921
	T12354D	708	392	431	474	498	505	524	2963
	T14038H	288	162	177	194	205	207	215	3021
	T1712N	9,060	5,299	5,743	6,217	6,465	6,529	6,720	3076
	T1870H	200,796	118,860	127,481	137,280	142,707	143,694	147,758	3108
	T1926F	2,652	1,499	1,629	1,766	1,861	1,903	1,973	3133
	T21704D	3,060	1,855	1,928	1,989	1,998	1,987	2,000	3156
	T21705D	5,064	3,079	3,201	3,302	3,316	3,298	3,320	3181
	T29369	319,212	170,105	201,636	226,547	235,450	243,800	252,598	3211
	T41810F	5,052	2,687	3,145	3,451	3,635	3,680	3,814	3243
	T41812F	396	28	31	36	39	40	42	3283
	T41813D	3,600	2,159	2,434	2,787	2,890	3,058	3,197	3321
	T41834F	81,212	31,226	32,243	32,991	33,429	33,842	34,356	3355
	T43217F	902,532	504,475	537,535	560,835	568,386	570,547	579,692	3366
	T43492B	1,488	847	921	1,009	1,063	1,075	1,114	3415
	T43497B	507,480	208,778	226,052	244,485	254,140	256,654	264,123	3453
	T43654B	33,350	19,867	21,508	23,261	24,180	24,418	25,128	3472
	T43084	50,844	26,565	29,579	34,025	36,785	37,482	39,307	3488
	T44047	3,777,372	2,456,293	2,660,934	2,880,828	2,995,766	3,026,078	3,113,721	3500
	T6284K	50,556	28,337	31,892	34,957	36,832	37,261	38,615	3527

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SCENARIO C

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SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36	REC NO.
DDO-L-20	T82152A	264	159	188	212	220	228	236	3584
	T83385	1,116	653	682	697	700	696	703	3601
	T87020	36,704	13,812	14,366	14,533	14,555	14,781	14,871	3515
	T87038A	225,456	121,063	125,846	130,013	130,471	128,564	130,351	3635
	T87067	230,772	127,165	132,295	136,586	137,048	136,[illegible]	136,922	3658
	U17311F	554,364	356,816	384,844	414,427	430,810	433,760	446,057	3665
	U43262B	506,080	337,081	369,482	408,790	429,523	435,180	450,063	3680
	VP356D	261,660	135,947	147,196	159,186	165,465	167,121	171,984	3822
	V437078	2,040	1,266	1,386	1,534	1,611	1,633	1,656	3666
DDO-L-20	**TOTAL	57,295,819	40,114,656	43,879,416	47,312,251	49,118,871	49,680,881	51,121,881	

SCENARIO D

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30
DDD-L-20	B1851F	415,524	355,034	578,267	803,499	1,027,731	1,251,984
	B211548	4,200	3,787	6,179	8,572	10,964	13,358
	B3108Q	678,512	576,391	940,428	1,304,465	1,668,501	2,032,538
	B3108Q	678,512	576,391	940,428	1,304,465	1,668,501	2,032,538
	B3759D	7,500	9,914	14,844	20,173	25,503	31,433
	B43290F	44,328	37,849	61,754	85,658	109,563	133,468
	B43388A	52,392	110,488	180,268	250,047	319,827	389,608
	B43828A	433,032	38,385	59,384	82,344	105,324	128,303
	B44053	88,558	110,488	180,268	250,047	319,827	389,608
	B829J	709,824	581,724	949,129	1,318,534	1,683,939	2,051,344
	B844L	835,352	585,948	1,088,843	1,507,140	1,927,737	2,348,334
	C14810E	49,212	43,209	70,597	97,925	125,253	152,581
	C18472F	270,800	231,544	377,783	524,022	670,260	818,499
	C17884C	7,308	8,190	10,098	14,008	17,918	21,828
	C17889D	2,568	2,430	3,984	5,499	7,034	8,588
	C1911Q	11,112	9,548	15,578	21,604	27,632	33,661
	C21709D	9,732	8,454	13,794	19,133	24,473	29,813
	C2181J	3,284	3,659	5,969	8,280	10,591	12,902
	C2202F	514,812	469,483	765,899	1,062,514	1,359,030	1,655,546
	C29138	72,384	69,484	113,369	157,253	201,138	245,023
	C29388A	787,598	2,158,125	3,521,151	4,884,177	6,247,203	7,610,228
	C38488A	660	600	979	1,358	1,738	2,117
	C40131B	31,200	30,388	49,577	68,768	87,959	107,150
	C418339	88,158	84,534	105,293	146,051	186,809	227,568
	C43199F	57,398	56,769	60,892	128,214	161,437	198,659
	C43455E	748,598	684,212	1,116,346	1,548,479	1,980,613	2,412,747
	C43507A	1,383	70	114	159	203	247
	C43544	393,792	335,613	547,579	759,546	971,512	1,183,478
	C43549A	480,600	399,566	651,924	904,282	1,156,639	1,408,997
	C43742B	485,628	411,184	670,880	930,575	1,190,270	1,449,965
	C438278	517,524	458,851	748,651	1,038,452	1,328,253	1,618,053
	C43830A	24,204	19,514	31,839	44,164	56,489	68,814
	C43972A	61,680	18,498	25,284	35,071	44,858	54,645
	C44001	222,000	189,532	325,552	461,573	577,593	703,613
	C44030	249,052	233,885	381,278	528,666	676,456	824,048
	C44048	3,800,000	3,737,111	6,097,391	8,457,671	10,817,952	13,178,232
	C82186A	61,958	48,677	79,421	110,164	140,908	171,651
	C83141A	163,308	158,271	254,568	353,885	452,362	551,059
	C83195	198,936	160,087	261,194	362,302	463,409	564,516
	C87071	251,495	258,784	422,228	585,688	749,110	912,552
	DDC628E	31,358	25,694	41,922	58,150	74,378	90,606
	DDS281K	427,044	337,040	549,907	762,775	975,642	1,188,509
	DDT581K	2,050,298	1,882,668	3,071,718	4,260,770	5,449,822	6,638,874
	DES1074	72,884	68,847	108,228	151,612	193,794	236,076
	DES1180	8,000	4,083	6,661	9,267	11,854	14,440

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30
DDD-L-20							
	DES1278	199,464	172,583	281,599	390,606	495,612	608,618
	DES1279	5,808	5,683	9,272	12,861	16,450	20,040
	DES1378	3,000	2,698	4,402	6,105	7,809	9,513
	DES1473	61,860	52,725	86,025	119,325	152,626	185,926
	DES1478	5,808	5,683	9,272	12,861	16,450	20,040
	DES1480	5,808	5,683	9,272	12,861	16,450	20,040
	DES1580	5,808	1,038	1,693	2,348	3,004	3,659
	DES1973	147,720	145,263	237,008	328,754	420,499	512,244
	DES2073	121,956	119,998	195,786	271,573	347,361	423,149
	DES2573	48,792	41,642	67,942	94,242	120,542	146,842
	DES3073	7,860	10,264	16,747	23,229	29,712	36,194
	DES4071	76,308	65,001	106,054	147,108	188,161	229,215
	DES879B	199,464	183,096	298,736	414,376	530,016	645,656
	DES979	3,000	2,698	4,402	6,105	7,809	9,513
	D15390K	553,404	522,311	852,191	1,182,071	1,511,952	1,841,832
	D2525D	552	505	823	1,142	1,460	1,778
	D40099F	1,455,876	1,378,771	2,249,574	3,120,377	3,991,180	4,861,983
	D43261B	495,000	457,006	745,642	1,034,278	1,322,913	1,611,549
	D43783C	3,788,544	3,576,677	5,835,630	8,094,584	10,353,538	12,612,492
	F12224F	1,171,596	975,074	1,590,811	2,206,747	2,822,583	3,438,420
	F18680B	516	528	861	1,194	1,527	1,861
	F43832B	45,456	38,519	62,846	87,174	111,501	135,829
	F43833B	186,804	157,448	256,890	356,331	455,772	555,213
	G17602D	562,356	478,923	781,401	1,083,879	1,386,356	1,688,834
	G3866E	89,496	81,741	133,366	184,992	236,618	288,244
	G43755B	73,584	57,277	93,452	129,627	165,802	201,977
	G81188B	196,992	165,720	270,386	375,052	479,717	584,383
	G835F	1,105,140					
	H12225F	2,892	2,378	3,880	5,382	6,884	8,386
	H17024E	3,516	3,050	4,977	6,903	8,830	10,756
	H3697C	2,640	2,082	3,396	4,711	6,026	7,340
	H41802D	1,142,748	936,831	1,528,513	2,120,196	2,711,879	3,303,561
	H43577C	3,900	3,228	5,266	7,305	9,344	11,382
	H43595A	1,788	1,251	2,041	2,832	3,622	4,412
	H43879	3,852	6,397				
	I43746A	8,000	2,441	3,982	5,524	7,065	8,607
	I43903	240	157	256	355	455	554
	JJU513D		5,624,858	9,177,401	12,729,943	16,282,485	19,835,027
	J21708E	121,128	107,029	174,627	242,224	309,821	377,419
	J43923A	6,708	5,706	9,310	12,914	16,518	20,121
	J43924B	5,388	4,565	7,448	10,331	13,214	16,097
	J82293B	146,172	150,492	245,540	340,588	435,635	530,683
	J82299B	14,256	12,571	20,511	28,451	36,391	44,331
	J83382B	28,668	23,544	38,413	53,283	68,152	83,022
	J83388B	27,840	22,873	37,320	51,766	66,213	80,659
	KP146E	7,020	4,455	7,268	10,081	12,895	15,708
	KP146E	7,020	4,455	7,268	10,081	12,895	15,708

SCENARIO D

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30
DDD-L-20							
	LPP182	10,478	8,638	14,094	19,550	25,005	30,461
	L41800F	199,464	672,045	1,098,494	1,520,943	1,945,392	2,369,841
	L43335C	110,520	101,519	165,637	229,754	293,872	357,990
	L43466C	146,568	120,179	196,081	271,984	347,886	423,789
	L43468C	146,568	120,179	196,081	271,984	347,886	423,789
	L43498B	137,984	113,178	184,659	256,140	327,621	399,102
	L43536D	501,756	421,158	687,153	953,147	1,219,142	1,485,137
	L43872B	6,084	5,180	8,451	11,722	14,993	18,265
	M11199F	40,620	33,937	55,371	76,805	98,239	119,672
	M2418F	7,058	5,734	9,358	12,977	16,598	20,220
	M43294B	49,088	41,163	67,161	93,159	119,157	145,155
	M43945	71,028	58,953	92,923	128,894	164,864	200,834
	M809D	114,744	95,849	156,059	216,469	276,878	337,288
	M810G	159,072	135,505	221,087	306,669	392,251	477,834
	M834J	28,436	31,096	50,736	70,376	90,016	109,655
	N43741	2,880	2,389	3,898	5,407	6,916	8,425
	O22776C	138,228	122,764	200,299	277,834	355,369	432,904
	O2414F	98,698	84,0[illegible]8	138,062	191,505	244,948	298,391
	O82250C	2,484	1,[illegible]	3,233	4,484	5,735	6,986
	P10809E	13,834	11,582	18,897	26,211	33,526	40,841
	P21593C	444	374	610	846	1,082	1,318
	P43496C	231,828	194,088	318,669	439,251	561,832	684,414
	P43907A	583,928	[illegible],898	769,939	1,067,979	1,366,020	1,664,061
	P8279J	90,312	80,771	131,785	182,798	233,812	284,826
	P82277C	170,376	142,591	232,648	322,706	412,763	502,820
	R43323D	3,240	2,731	4,455	6,180	7,904	9,629
	S10858G	348,560	295,[illegible]	481,899	668,441	854,982	1,041,524
	S10926F	154,248	128,[illegible]	209,[illegible]	286,170	366,031	445,892
	S1898F	4,920	3,861	6,463	8,965	11,467	13,969
	S17868B	4,764	3,612	6,220	8,828	11,035	13,443
	S29149A	285,660	253,408	413,454	573,501	733,548	893,595
	S3725D	189,588	157,937	257,887	357,437	457,187	556,937
	S405F	430,764	423,619	691,166	958,717	1,226,265	1,493,814
	S43013C	4,176	3,302	5,713	7,924	10,136	12,347
	S43357C	94,356	88,612	141,314	196,016	250,719	305,421
	S43502A	3,652	3,021	4,929	6,837	8,745	10,652
	S43526B	3,696	3,155	5,148	7,141	9,133	11,126
	S43828	117,780	98,227	160,263	222,303	284,341	346,380
	S43829A	252,936	215,524	351,645	487,765	623,886	760,006
	S43835B	800,828	531,895	867,829	1,203,763	1,539,696	1,875,630
	S43926B	352,056	1,733,085	2,827,665	3,922,244	5,016,824	6,111,404
	S48J	4,731,120	5,674,034	9,257,634	12,841,234	16,424,834	20,008,435
	T10009F	660	567	926	1,284	1,642	2,000
	T10035H	7,032	5,984	9,763	13,543	17,322	21,102
	T10168H	84	70	115	159	204	248
	T1110E	600	532	869	1,205	1,541	1,877
	T1111E	1,128	989	1,613	2,237	2,862	3,486

SPECIFICATION NUMBER	FILE NAME	SCENARIO A	M+6	M+12	M+18	M+24	M+30
DDD-L-20							
	T12354D	708	585	855	1,325	1,695	2,064
	T14038H	288	243	397	551	704	858
	T1712N	9,060	8,021	13,088	18,152	23,217	28,283
	T1870H	200,788	180,487	294,479	408,471	522,463	636,455
	T1928F	2,652	2,248	3,664	5,082	6,500	7,919
	T21704D	3,060	2,900	4,731	6,563	8,394	10,226
	T21705D	5,064	4,814	7,854	10,894	13,934	16,974
	T41810F	5,052	4,324	7,055	9,785	12,516	15,247
	T41812F	398	42	68	95	121	148
	T41813D	3,600	3,207	5,233	7,259	9,285	11,310
	T43217F	802,532	771,015	1,257,973	1;744,930	2,231,887	2,718,844
	T43492B	1,488	1,285	2,071	2,873	3,675	4,478
	T43497B	507,480	318,165	515,848	715,531	915,214	1,114,898
	T43654B	33,350	30,088	49,088	68,090	87,092	106,094
	T44047	3,777,372	3,716,386	6,063,577	8,410,767	10,757,956	13,105,149
	T6284K	50,556	43,960	71,725	99,489	127,253	155,018
	T82152A	264	234	382	530	678	827
	T83385	1,118	1,004	1,638	2,273	2,907	3,541
	T87020	25,704	21,604	35,248	48,892	62,537	76,181
	U17811F	554,364	544,862	888,985	1,233,109	1,577,232	1,921,355
	U43262B	508,080	510,319	832,625	1,154,932	1,477,239	1,799,545
	VP356D	281,360	205,875	335,902	465,929	595,955	725,982
	V43707B	2,040	1,815	3,124	4,333	5,542	6,751
DDD-L-25	**TOTAL	45,556,411	50,348,090	82,133,183	113,926,678	145,720,158	177,513,655

APPENDIX I

DEMAND FUNCTION DERIVATION

SECTION I: TOTAL DEMAND

Total demand for a component over a six-month study period is represented by:

$$D_T = \sum_{i=1}^{6} d_i + r_i d_i \quad (D_r = d_1 + r_1 d_1 + d_2 + r_2 d_2 + \ldots + d_6 + r_6 d_6)$$

where

D_T = total demand for the six month period

d_i = normal demand for month i

r_i = combat replacement percentage for month i

replacement vs loss

However, our MOB factor, which represents monthly replacement requirements as a percentage of demand, is constant. I.E., $r_1 = r_2 = r_3 = r_4 = r_5 = r_6 = MOB$. Therefore,

$$D_r = \sum_{i=1}^{6} d_i + r_i d_i$$

$$= \sum_{i=1}^{6} d_i + \sum_{i=1}^{6} r_i d_i$$

$$= \sum_{i=1}^{6} d_i + \sum_{i=1}^{6} MOB \cdot d_i \quad \text{because } r_i = MOB \text{ for } i = 1 \text{ to } 6$$

$$= \sum_{i=1}^{6} d_i + MOB \sum_{i=1}^{6} d_i$$

Letting the sum of the normal monthly demands for the six-month period $\sum_{i=1}^{6}$ be represented by D_p, we now have:

$$D_T = D_p + MOB \cdot D_p$$

D_p represents normal 6 month demand for all the services combined, i.e.,

$$D_p = D_{pa} + D_{pf} + D_{pn} + D_{pm} + D_{pc} ,$$

Where

D_{pa} = Army demand

D_{pf} = Air Force demand

D_{pn} = Navy demand

D_{pm} = Marine demand

D_{pc} = Coast Guard demand

Therefore,

$$\begin{aligned} D_T &= D_p + MOB\ D_p \\ &= D_{pa}+D_{pf}+D_{pn}+D_{pm}+D_{pc}+MOB(D_{pa}+D_{pf}+D_{pn}+D_{pm}+D_{pc}) \\ &= D_{pa}+D_{pf}+D_{pn}+D_{pm}+D_{pc}+ \\ &\quad MOB\cdot D_{pa}+MOB\cdot D_{pf}+MOB\cdot D_{pn}+MOB\cdot D_{pm}+MOB\cdot D_{pc} \\ &= D_{pa} + MOB\cdot D_{pa} + \qquad (=D_A) \\ &\quad D_{pf} + MOB\cdot D_{pf} + \qquad (=D_F) \\ &\quad D_{pn} + MOB\cdot Dpn + \qquad (=D_N) \\ &\quad D_{pm} + MOB\cdot D_{pm} + \qquad (=D_M) \\ &\quad D_{pc} + MOB\cdot D_{pc} + \qquad (=D_C) \end{aligned}$$

In other words, total demand for the six-month period is the sum of the individual demands for each of the services during the period, i.e., $D_T = D_A + D_F + D_N + D_M + D_C$. Individual demand for a given service (i.e., D_F) is the sum of the normal demand for that service (D_{pf}) and the and the combat replacement quantity required ($MOB \cdot D_{pf}$) based on that demand.

NOTES:

- Normal demand includes both new issues and normal replacement (wear and tear, loss, etc.) requirements.

- MOB is assumed to represent combat <u>replacement</u> requirements, not combat <u>loss</u> percentage. Combat replacements are always higher than combat losses, because a percentage of the replacements will also be lost. If l equals the combat loss percentage and R equals the replacement requirements, then $R = \frac{1}{1-L} - 1$. For example, if combat losses are 15%, then replacement allowances must be 17.6% of the original required supply.

- MOB has only been made available as a constant factor by component item. However, the formulas developed are easily modifiable if it is found to be desirable to vary the replacement factory by service or time period.

SECTION II: SERVICE DEMAND

For a given service(s), the six-month normal demand D_{ps} shown in the previous section can be caldulated by:

$$D_{ps} = \sum_{i=1}^{n} q_i$$

Where

q_i = quantity demand at issue number i during the period

n = number of issues in the period.

Further, q_i can be calculated by:

$$q_i = n_i p_i s_i$$

Where

n_i = number of units issued per person at issue i

p_i = percent of service strength receiving the item at issue i

s_i = service size at issue i

Therefore,

$$D_{ps} = \sum_{i=1}^{n} n_i p_i s_i$$

The above formula requires the availability of figures for each individual issue during the given six-month study period. However, the only data currently available is:

- Current annual peacetime demand for all services combined

- Current base service strength for each service

- Projected service strength relative to base at the end of each six-month period.

Therefore, the following assumptions must be made in order to approximate expected demand with any degree of accuracy. Modifications to these assumptions will produce different results than those achieved.

- Demand is spread evenly across the year.

- Issue periods can be presumed to be "monthly" for demand smoothing purposes (because of monthly MOB factor).

- Demand increases linearly with growth in service strength.

- Demand is spread evenly across all services receiving the item according to relative service strength.

- Mobilization does not create an additional demand relative to peacetime other than that resulting from increased service strength.

- Growth (or decrease) in service strength is linear throughout a given six-month period.

Based on the above assumptions, the six-month service normal demand formula $D_{ps} = \sum_{i=1}^{n} n_i p_i s_i$ can be re-evaluated and restated. The combination of the factors $(n_i p_i)$ give one factor representing "demand units relative to service strength." Because demand is now assumed to be spread evenly across the year, the number of units given to each person at an issue (n_i) and the percent of service strength receiving the item at an issue (p_i) will be constant. The combination "demand factor" will therefore also be constant. Because a monthly issue period is assumed, the factor can be labeled "monthly demand units relative to service strength," and the formular recalculated as follows:

$$D_{ps} = \sum_{i=1}^{6} n_i p_i s_i$$

$$= \sum_{i=1}^{6} f_i s_i \qquad f_i = n_i p_i$$

$$= \sum_{i=1}^{6} f s_i \qquad f_i = f_2 = f_3 = \ldots = f_6 = f \quad \text{"monthly demand factor"}$$

$$= f \sum_{i=1}^{6} s_i$$

The "monthly demand units relative to service strength" can be calculated from the available figures for total annual demand and relative base service strengths. Having identified all services receiving the item, it is assumed as stated above that demand is spread evenly across all services receiving the item according to relative service strength. For example, for an item received by all services,

$$S_T = S_A + S_F + S_N + S_M + S_C$$

Where

S_T = total strength of all services receiving the item

S_A = base Army strength

$\vdots$ = etc.

For an item received only by the Air Force and Army,

$$S_T = S_A + S_F$$

The relative percent of use by a given service S is represented by:

$$R_S = S_S / S_T$$

The portion of the annual demand is therefore $D_S = R_S \cdot A$, where A is the current total annual demand.

Annual demand units relative to service strength can now be represented by:

$$AF_S = D_S/S_S$$

To arrive at a monthly figure, the yearly figure is simply divided by twelve.

In order to convert the six month service normal demand formula into something more easily calculatable from the figures available, the following relationship can be derived.

$$D_{ps} = f \sum_{i=1}^{6} S_i$$

= Monthly demand unit factor * Sum of service sizes at each month

= Six-month demand unit factor * Average service size during six-month period

$$= 6f \left(\sum_{i=1}^{6} S_i \Big/ 6 \right)$$

Note that the "six-month demand units as a percent of service strengths" is simply half the annual figure, or six times the monthly figure.

For computing the average service size during the six month period, the fitures available are the service size relative to service base at the end of each six-month period. The most straightforward way to compute average service size in a six month period is therefore to calculate average size growth relative to the ending size for the previous six months, and then multiply this factor by the previous ending size to arrive at the average size.

Because growth factors relative to base are given as <u>factors</u>, not percentages (i.e., 1.02 not 102), the relative size from the <u>end</u> of one period to the <u>end</u> of the next is given by:

$$M_S/M_0 - 1$$

Where

M_1 is the size factor relative to base at end of the current six-month period.

M_0 is the size factor relative to base at end of the previous six-month period.

Because growth (or decrease) is assumed to be linear, the <u>average</u> relative size from one period to the next is:

$$7/12\ (M_1/M_0 - 1).$$

The ending size of the previous period is:

$$S_S \cdot M_0$$

Where S_S is the base service strength.

The average size in the current period is therefore the ending previous size plus the average relative size increase (or decrease), i.e.,

$$\text{Avg. size} = (S_S \cdot M_0) + 7/12\ (M_1/M_0 - 1) \cdot (S_S \cdot M_0)$$

$$= S_S \cdot M_0 \left[1 + 7/12\ (M_1/M_0 - 1)\right]$$

Therefore

$$D_{ps} = 6f \cdot S_S \cdot M_0 \left[1 + 7/12\ (M_1/M_0 - 1)\right]$$

$$= \frac{AFs}{2} \cdot S_S \cdot M_0 \left[1 + 7/12\ (M_1/M_0 - 1)\right]$$

SECTION III: SUMMARIZATION OF FORMULAS

Normal six-month demand for a service:

$$D_{ps} = \frac{AFs}{2} \cdot S_S \cdot M_0 \cdot \left[1 + 7/12\ (M_i/M_0 - 1)\right]$$

Total six-month demand for a service:

$$D_S = D_{ps} + MOB \cdot D_{ps}$$

Total demand for all services:

$$D_T = D_A + D_F + D_N + D_M + D_C$$

SECTION IV: COMPUTER CALCULATIONS

In order to facilitate the computer calculations, the annual demand units factor (AF_S) was factored out of the equation and applied last. The following formula

$$D_S = D_{ps} = MOB \cdot D_{ps}$$

was actually calculated as

$$\begin{aligned} D_S &= D_{ps} + MOB \cdot D_{ps} \\ &= \frac{AFs}{2}\left\{ S_S \cdot M_0 \left[1 + 7/12\,(M_1/M_0 - 1)\right]\right\} \\ &\quad + MOB \cdot \frac{AFs}{2}\, S_S \cdot M_0 \left[1 + 7/12\,(M_1/M_0 - 1)\right] \\ &= \frac{AFs}{2}\left\{ \underbrace{S_S \cdot M_0 \;(1 + 7/12\,(M_1/M_0 - 1))}_{A} \right. \\ &\quad \left. \underbrace{+ MOB \cdot (S_S \cdot M_0\,(1 + 7/12\,(M_1/M_0 - 1)))}_{B} \right\} \end{aligned}$$

The formula was then calculated as follows:

1	$S_S \cdot M_0 \;(1 + 7/12\,(M_1/M_0 - 1))$	(A)
2	MOB . 1	(B)
3	1 + 2	Sum inside brackets
4	$\frac{AFs}{2}$. 3	Total

This was done for each service, then summed to obtain a grand total.

The growth factors, annual demand, start strength and MOB were all given figures.

AF_S, shown as "percent of strength receiving items" was calculated in another routine based on the formulas shown in this appendix, and entered into this routine. The figures shown are the yearly "unit demand relative to service strength" factors.

APPENDIX J

MILITARY TEXTILE DEMANDS
MAXIMUM STRENGTH REQUIREMENTS
GENERAL CATEGORIES

(In Millions)

Category	Measure	Peacetime	Scenario B	Scenario C	Scenario D
Broadwovens	ESY	145.39	449.18	240.40	750.20
Narrow Fabrics	LY	112.08	373.33	207.64	729,63
Knits	ESY	21.07	81.83	43.83	167.68
Non-wovens	ESY	.14	.47	.24	.76
Thread	LY	12,050.64	38,580.54	20,132.40	57,216.98

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SCENARIO B

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
B	CC-C-467	504	312	458	530	547	540	532
	CCC-C-41	24,174	16,159	22,506	27,678	30,782	31,455	31,486
	CCC-C-419	3,852,038	2,784,489	4,045,637	4,710,107	4,954,482	4,944,776	4,927,471
	CCC-C-426	284,566	194,003	280,560	329,802	348,308	347,610	344,119
	CCC-C-428	528	21	31	35	39	40	41
	CCC-C-429	1,021,523	739,464	1,081,278	1,260,994	1,324,927	1,320,721	1,314,152
	CCC-C-430	2,298,613	1,480,711	2,058,207	2,482,704	2,730,181	2,783,951	2,787,819
	CCC-C-432	38,048	25,604	36,727	42,209	45,655	48,329	48,404
	CCC-C-436	3,778,132	2,957,942	4,412,725	5,117,248	5,331,636	5,287,260	5,274,480
	CCC-C-438	705,540	335,022	474,092	569,214	623,396	634,484	638,589
	CCC-C-440	7,583	5,799	8,527	9,851	10,176	10,049	9,892
	CCC-C-441	821	398	544	628	663	668	656
	CCC-C-448	72,870	58,530	78,244	92,681	100,664	102,416	102,808
	CCC-C-461	799,861	528,165	735,623	898,497	997,229	1,019,543	1,025,082
	CCC-C-467	2,821,880	2,126,978	3,131,449	3,642,279	3,807,447	3,783,640	3,759,888
	CCC-C-478	1,998	1,645	2,461	2,843	2,980	2,971	3,000
	KSA-B-1000	10,462	8,925	12,463	14,990	16,570	16,962	17,188
	KSA-C-1100	1,234	289	443	512	522	510	503
	KSA-C-1200	1,044,414	678,038	922,820	1,068,184	1,125,325	1,132,934	1,112,674
	KSA-C-2000	1,358,787	938,644	1,436,701	1,660,818	1,697,708	1,659,945	1,638,938
	KSA-C-3000	252,274	161,892	225,488	277,301	308,401	315,138	315,451
	KSA-C-4000	81	62	90	104	109	108	107
	KSA-C-5000	1,834	1,551	2,234	2,582	2,817	2,894	3,020
	KSA-C-8000	162,263	151,513	215,209	254,652	273,473	276,812	276,280
	KSA-C-9000	244,638	243,433	345,773	409,144	439,385	443,143	442,289
	LPP-DES13-80	10,184	9,507	14,390	16,628	17,214	17,004	16,983
	LPP-DES18-73	987,173	834,257	1,208,181	1,418,995	1,500,247	1,501,489	1,494,891
	LPP-DES23-73	474,653	363,420	526,309	617,275	653,538	654,076	651,198
	LPP-DES32-75	698,124	544,654	798,491	922,578	960,743	954,620	948,498
	MIL-C-10176	1,105,137	886,150	1,297,021	1,498,780	1,608,098	1,631,678	1,679,990
	MIL-C-10296	4,512,326	3,519,376	5,057,558	5,921,706	6,270,720	6,280,824	6,248,693
	MIL-C-10789	12,468	9,397	13,599	15,912	16,926	17,011	17,067
	MIL-C-10859	2,268,920	1,654,836	2,409,962	2,819,849	2,975,410	2,972,240	2,959,380
	MIL-C-11065	958,670	705,144	1,018,945	1,192,918	1,261,450	1,261,908	1,255,643
	MIL-C-12095	1,024,198	789,393	1,162,435	1,350,074	1,409,103	1,389,424	1,389,979
	MIL-C-12189	3,068,303	2,565,301	3,760,351	4,345,271	4,525,702	4,498,688	4,468,371
	MIL-C-12369	580,944	1,139,688	1,702,281	1,977,668	2,055,172	2,032,782	2,018,472
	MIL-C-15062	11,978	45,170	68,177	76,466	81,963	83,105	85,502
	MIL-C-16290	330,335	220,508	306,928	378,720	418,328	427,284	427,478
	MIL-C-16375	24,639	51,631	79,188	91,493	93,403	91,245	89,946
	MIL-C-18387	190,551	147,273	215,554	250,203	258,443	255,218	251,249
	MIL-C-19002	825	604	824	952	1,005	1,011	993
	MIL-C-19699	2,851	1,907	2,627	3,215	3,573	3,653	3,655
	MIL-C-19759	953,300	670,007	927,014	1,100,181	1,197,054	1,218,298	1,220,475
	MIL-C-20696	21,662	15,805	23,081	26,809	27,958	27,751	27,438
	MIL-C-21115	4,690,369	4,316,894	6,270,458	7,316,958	7,883,428	7,898,975	8,181,791
	MIL-C-2184	8,584	6,800	10,430	12,050	12,302	12,018	11,847
	MIL-C-21852	284,737	178,543	250,889	302,110	329,653	334,258	335,146
	MIL-C-21881	1,567,321	1,180,608	1,679,090	1,958,353	2,133,609	2,183,882	2,246,383
	MIL-C-23928	825	604	824	952	1,005	1,011	993

SCENARIO B

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
B	MIL-C-29118	38,040	31,163	45,274	53,208	56,223	56,132	55,719
	MIL-C-29127	909,976	874,128	781,504	950,973	1,056,909	1,079,855	1,080,478
	MIL-C-29137	7,875	5,737	8,445	9,865	10,520	10,473	10,397
	MIL-C-29147	695,011	470,940	655,934	806,862	897,131	916,731	917,639
	MIL-C-29383	230,276	192,212	278,759	320,039	349,350	358,818	374,222
	MIL-C-297	801,836	470,910	676,489	789,591	859,874	878,180	906,594
	MIL-C-326	837,372	1,300,486	1,910,195	2,234,390	2,373,312	2,380,562	2,398,753
	MIL-C-332	1,129,343	799,782	1,158,226	1,358,407	1,438,216	1,439,405	1,433,077
	MIL-C-3395	13,551	10,163	14,949	17,273	17,924	17,759	17,590
	MIL-C-342	3,836,575	2,723,058	3,799,659	4,492,626	4,856,530	4,925,328	4,926,289
	MIL-C-3453	876	876	876	876	876	876	876
	MIL-C-368	809,466	1,789,691	2,645,870	3,062,890	3,249,341	3,267,715	1,827,120
	MIL-C-3736	57,205	47,216	67,973	78,828	85,837	88,161	91,928
	MIL-C-3760	103,738	74,753	107,944	126,503	133,946	134,077	133,468
	MIL-C-3924	2,232,928	1,664,474	2,414,031	2,819,093	2,967,068	2,960,420	2,939,220
	MIL-C-3953	1,025	1,025	1,025	1,025	1,025	1,025	1,025
	MIL-C-40039	5,397	3,873	5,704	6,733	7,104	7,088	7,011
	MIL-C-41808	41,108	30,607	45,007	52,001	53,713	53,042	52,217
	MIL-C-41820	489,958	453,291	683,967	790,275	820,928	812,975	814,398
	MIL-C-4277	131,239	131,239	131,239	131,239	131,239	131,239	131,239
	MIL-C-43122	356,573	175,028	253,932	297,758	313,378	312,207	305,811
	MIL-C-43128	386,200	319,070	465,230	542,219	570,321	568,920	566,474
	MIL-C-43191	6,316,273	4,463,067	6,435,995	7,552,134	8,004,827	8,015,131	7,975,545
	MIL-C-43204	167,306	125,774	183,104	214,101	226,078	225,989	225,345
	MIL-C-43234	58,249	41,653	60,121	70,466	74,833	74,719	74,386
	MIL-C-43251	793,268	532,920	808,192	934,889	983,839	948,584	941,880
	MIL-C-43375	177,457	134,424	194,874	228,320	241,735	241,937	240,874
	MIL-C-43468	4,097,991	3,328,202	4,623,676	5,444,604	5,881,922	5,938,100	5,920,758
	MIL-C-43473	2,436,303	1,809,137	2,584,356	3,022,893	3,205,341	3,212,428	3,197,594
	MIL-C-43476	2,289,544	1,768,092	2,477,881	2,926,106	3,154,636	3,166,116	3,166,492
	MIL-C-43482	3,089,708	2,082,146	3,108,933	3,832,783	3,796,023	3,781,733	3,740,328
	MIL-C-43504	17,321	12,837	19,382	22,393	22,861	22,333	22,015
	MIL-C-43525	402,334	282,211	423,594	494,310	515,271	509,836	507,085
	MIL-C-43594	2,397,175	805,722	1,183,244	1,370,885	1,423,797	1,410,369	1,393,819
	MIL-C-43600	50,820	47,536	71,948	83,131	86,072	85,021	84,917
	MIL-C-43605	883,480	683,578	872,843	1,124,024	1,170,516	1,162,930	1,165,566
	MIL-C-43627	4,735,678	3,616,830	5,299,584	6,178,292	6,474,740	6,444,591	6,403,224
	MIL-C-43637	1,105,200	873,342	1,260,635	1,477,571	1,564,959	1,568,780	1,559,828
	MIL-C-43675	66,049	48,176	73,890	85,372	87,155	85,140	83,929
	MIL-C-43718	1,221,789	1,590,432	2,324,902	2,722,134	2,889,953	2,897,313	2,909,876
	MIL-C-43734	12,983	15,061	22,427	26,068	27,188	26,965	26,846
	MIL-C-43774	4,943	4,246	6,466	7,473	7,665	7,550	7,493
	MIL-C-43791	70,551	47,189	67,754	81,073	87,302	87,817	87,443
	MIL-C-43842	134,709	159,229	238,295	276,500	287,372	284,365	282,974
	MIL-C-43843	1,241,741	980,879	1,416,598	1,660,093	1,757,607	1,759,222	1,751,201
	MIL-C-43847	21,218	15,797	23,230	26,839	27,723	27,377	26,851
	MIL-C-43874	23,040	17,148	25,249	29,172	30,122	29,736	29,274
	MIL-C-43892	1,856,573	8,234,787	12,072,602	13,846,728	14,525,814	14,431,752	14,340,716
	MIL-C-43906	4,085,171	2,873,256	4,163,633	4,892,117	5,160,429	5,147,815	5,093,546
	MIL-C-43920	616,290	431,107	607,920	730,815	807,335	826,492	839,751

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
B	MIL-C-43992	3,271,563	707,489	1,085,099	1,253,717	1,279,901	1,250,319	1,232,530
	MIL-C-44031	26,595,592	22,581,759	32,702,883	38,354,744	40,607,91[illegible]	40,641,354	40,482,583
	MIL-C-44034	7,842	5,701	8,357.	9,656	10,058	9,990	9,927
	MIL-C-44043	90,884	105,570	158,990	182,463	190,315	188,757	187,921
	MIL-C-44050	931,117	1,050,241	1,563,847	1,816,780	1,893,923	1,877,847	1,869,984
	MIL-C-483	271,934	214,405	315,183	364,217	378,328	371,699	366,966
	MIL-C-484	2,312,488	1,824,022	2,641,304	3,087,938	3,258,340	3,252,481	3,231,838
	MIL-C-508	1,357,203	1,080,404	1,583,806	1,841,380	1,929,034	1,920,418	1,911,383
	MIL-C-51251	250,860	193,966	279,983	328,164	347,572	347,977	348,432
	MIL-C-7020	1,070,409	1,069,302	1,070,403	1,071,043	1,071,307	1,071,341	1,071,251
	MIL-C-7219	1,191,729	873,526	1,258,722	1,471,399	1,557,488	1,559,068	1,552,363
	MIL-C-7350	6,954,867	5,472,659	7,695,798	8,939,081	9,437,188	9,445,995	9,406,320
	MIL-C-81814	165,423	106,263	145,754	173,601	188,408	181,271	189,762
	MIL-C-82252	34,891	28,924	41,682	48,142	52,539	53,966	58,311
	MIL-C-823	2,344,574	3,862,435	5,609,008	6,566,328	7,065,417	7,154,894	7,285,704
	MIL-C-83429	967,698	814,288	1,197,388	1,383,438	1,428,988	1,411,145	1,389,197
	MIL-C-83450	52,999	33,950	46,559	55,452	60,182	61,097	60,625
	MIL-C-87052	933,444	3,145,583	4,381,231	5,387,999	5,992,277	6,123,189	6,129,258
	MIL-F-43539	157,517	115,494	166,719	195,399	206,941	207,173	206,249
	MIL-T-43594	255,908,928	55,341,387	84,878,891	98,068,515	100,118,891	97,802,721	96,411,213
	MIL-T-43718	35,619	25,957	39,811	45,998	46,958	45,873	45,220
	[illegible]	3,049,590	2,665,719	3,781,224	4,460,154	4,757,895	4,783,554	4,756,988
B	**TOTAL	~~398,263,529~~	~~178,210,683~~	~~262,099,730~~	~~305,333,769~~	~~319,717,690~~	~~317,839,048~~	~~314,636,092~~
		401,303,219	180,862,481	265,817,954	309,793,923	324,475,525	322,622,602	319,353,990
K	KSA-C-1000	382,020	152,560	219,788	257,735	273,302	273,830	272,897
	KSA-K-1000	8,407,849	7,115,044	10,269,570	12,036,488	12,748,042	12,762,894	12,705,663
	KSA-K-2000	629,221	611,272	751,186	883,833	936,398	935,611	934,831
	KSA-K-3000	1,668,959	1,353,608	1,953,731	2,289,887	2,425,289	2,428,061	2,417,211
	KSA-K-4000	64,671	47,372	68,374	80,139	84,878	84,977	84,598
	KSA-K-5000	665	422	581	711	790	808	809
	KSA-K-6000	18,021	11,844	17,164	20,168	21,272	21,219	20,993
	KSA-K-8000	11,374	8,173	11,798	13,826	14,844	14,661	14,595
	KSA-K-900	1,440	1,051	1,545	1,785	1,844	1,821	1,792
	KSA-Y-1000	1,514,817,600	1,022,265,141	1,473,364,933	1,727,635,732	1,831,037,557	1,833,881,107	1,825,513,269
	KSA-Y-2000	15,143,228	15,158,808	21,974,023	25,908,398	27,568,068	27,832,271	27,568,306
	KSA-Y-3000	88,153	72,874	105,183	123,280	130,568	130,718	130,134
	LPP-DES12-80	26,138	24,447	37,002	42,753	44,265	43,725	43,672
	MIL-C-17155	721,708	541,771	755,931	813,848	1,007,881	1,028,625	1,034,742
	MIL-C-17157	1,339,728	1,085,351	1,567,162	1,843,056	1,941,714	1,937,647	1,917,110
	MIL-C-3735	4,138,544	3,180,618	4,538,910	5,358,315	5,728,435	5,760,340	5,741,595
	MIL-C-40004	25,238	17,048	24,607	28,842	30,548	30,580	30,440
	MIL-C-41831	21,402	18,258	25,495	30,664	33,897	34,700	35,160
	MIL-C-43247	109,753	84,007	121,578	142,148	150,119	150,100	148,384
	MIL-C-43352	6,170	1,655	2,434	2,812	2,905	2,869	2,824
	MIL-C-43358	175,107	139,881	198,393	233,850	247,581	247,782	248,432
	MIL-C-43824	18,238	14,320	21,044	24,325	25,142	24,836	24,453
	MIL-C-43858	1,650,263	7,324,717	10,738,420	12,407,183	12,920,458	12,836,776	12,758,797
	MIL-C-43938	337,508	248,116	377,475	436,131	445,241	431,950	428,782
	MIL-C-43983	799,764	698,392	1,030,788	1,212,029	1,279,994	1,278,298	1,274,158
	MIL-C-6590	249,189	192,919	282,338	326,859	338,773	335,208	330,180

SCENARIO B

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
K	MIL-C-8061	408	339	499	588	623	623	623
	MIL-C-81393	930	800	1,210	1,399	1,447	1,430	1,428
	MIL-C-83398	69,628	45,069	61,521	71,079	75,022	75,529	74,178
	MIL-G-3866	204,970	153,872	225,731	260,810	271,598	269,838	268,134
K	**TOTAL	1,551,121,677	1,060,465,849	1,528,749,408	1,782,581,669	1,899,786,271	1,802,659,630	1,894,025,970
M	KSA-NW-100	23,470	51,777	70,693	81,676	86,218	86,808	85,278
M	**TOTAL	23,470	51,777	70,693	81,676	86,218	86,808	85,278
N	DDD-T-86	2,985,408	2,870,248	4,108,000	4,822,429	5,352,146	5,421,869	5,446,840
	JJ-W-155	31,468,826	26,178,353	37,831,294	44,278,090	46,830,438	46,858,968	46,650,201
	KSA-R-1000	8,060						
	KSA-T-2000	557,001	380,355	531,121	638,834	706,190	722,913	732,498
	KSA-T-3000	49,344	11,548	17,711	20,463	20,890	20,408	20,117
	KSA-T-4000	263,166	191,551	293,788	339,440	346,529	338,520	333,704
	KSA-W-1000	30,840	7,217	11,069	12,789	13,058	12,755	12,573
	MIL-B-1687	481,218	350,999	538,339	621,993	634,984	620,308	611,482
	MIL-B-371	14,628,788	20,242,260	29,419,598	34,214,911	35,931,029	35,845,007	35,654,530
	MIL-B-593	1,164,196	1,064,839	1,553,283	1,815,905	1,911,042	1,905,322	1,893,712
	MIL-C-7040	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030
	MIL-F-21840	5,463,733	5,501,412	8,013,877	9,318,850	9,750,318	9,700,669	9,614,685
	MIL-T-2283	208,883	135,207	184,564	213,237	225,065	226,587	222,535
	MIL-T-43568	17,823,103	20,356,876	29,683,812	34,572,897	36,334,356	36,236,782	36,041,338
	MIL-T-43709	16,793	11,149	16,903	19,528	20,184	19,910	19,854
	MIL-T-5038	5,437,836	4,347,269	6,223,866	7,271,054	7,688,299	7,694,226	7,661,036
	MIL-T-5237	50,916	63,888	90,141	108,282	119,578	122,412	124,424
	MIL-T-5661	33,059	32,846	33,058	33,181	33,231	33,238	33,221
	MIL-T-6134	47,136	47,136	47,136	47,136	47,136	47,136	47,136
	MIL-T-8363	185	135	185	213	225	227	223
	MIL-W-17337	53,801	56,397	83,674	97,144	101,162	100,302	99,694
	MIL-W-27265	579,742	553,348	584,707	602,274	609,350	609,497	608,931
	MIL-W-4088	7,049,193	5,310,714	7,601,753	8,835,908	9,303,938	9,293,996	9,260,791
	MIL-W-43566	291	291	291	291	291	291	291
	MIL-W-43836	2,599,693	1,995,879	2,938,271	3,413,684	3,569,843	3,549,201	3,529,192
	MIL-W-43688	3,340,125	1,998,605	2,891,356	3,391,041	3,590,300	3,593,297	3,577,515
	MIL-W-43685	395,507	300,192	441,048	509,588	530,386	526,690	523,456
	MIL-W-43688	360,497	278,683	403,687	472,701	500,754	501,621	500,568
	MIL-W-5038	4,252	4,252	4,252	4,252	4,252	4,252	4,252
	MIL-W-530	12,824,245	9,880,885	14,423,892	16,803,039	17,623,588	17,551,486	17,432,198
	MIL-W-5625	10,858	10,858	10,858	10,858	10,858	10,858	10,858
	MIL-W-5664	579,499	443,087	643,299	748,279	785,540	783,310	778,461
	MIL-W-5665	766,229	408,127	498,702	549,120	569,059	569,250	567,569
	PPP-T-60	393	393	393	393	393	393	393
N	**TOTAL	112,683,840	106,653,829	152,722,736	177,508,834	186,785,458	186,542,729	185,637,308
T	C-T-301	11,064	522	801	926	945	923	910
	KSA-T-1000	172,584	143,328	206,455	238,564	280,351	267,425	279,047

SCENARIO B

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
T	MIL-T-34548	317,520	222,852	322,737	378,516	400,758	401,088	399,328
	MIL-T-43548	8,070,255,420	7,237,771,240	10,487,111,714	12,348,942,071	13,149,589,229	13,199,105,587	13,155,810,266
	MIL-T-43624	54,588,080	12,437,880	17,649,421	20,748,749	22,181,449	22,349,502	22,308,504
	MIL-T-43636	30,476,623	33,528,487	49,853,435	57,945,530	60,435,336	59,936,415	59,660,810
	MIL-T-83193	95,951,076	78,157,621	110,530,619	128,425,340	133,914,079	132,984,997	131,104,472
	V-B-871	183,200	157,375	227,164	266,258	282,003	282,331	281,078
	V-T-276	1,650,546,108	1,663,502,608	2,382,782,263	2,783,152,546	2,989,457,506	3,027,093,858	3,086,665,584
	V-T-280	35,861,089	36,301,560	52,470,193	61,477,407	65,217,632	65,384,689	65,274,229
	V-T-285	1,203,730,792	908,554,088	1,321,087,736	1,546,349,753	1,632,250,688	1,630,605,078	1,622,891,417
	V-T-295	478,604,825	399,114,104	567,306,018	662,584,697	701,993,585	703,619,904	700,827,298
	V-T-301	10,048,052	35,990,860	53,372,668	61,777,057	65,338,185	65,559,988	66,592,675
	V-T-385	62,366,400	40,478,402	58,283,331	68,742,098	72,489,359	73,744,473	73,897,442
		11,724,126,933	10,583,420,447	15,225,459,687	17,887,699,300	19,052,417,582	19,140,764,038	19,245,559,976
T	**TOTAL	1,692,070,819	10,494,360,507	15,099,184,555	17,799,027,508	18,893,821,083	18,981,316,228	18,985,992,660
W	MIL-B-87019	47,552	30,528	42,520	52,291	58,156	59,428	59,485
	MIL-C-29365	31,843	26,683	38,409	44,438	48,515	49,826	51,946
	MIL-C-43836	38,045	21,747	31,854	37,378	39,487	39,421	39,293
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
W	**TOTAL	117,440	78,958	112,783	134,107	146,158	148,673	150,724
Z	C-F-206	1,073	760	1,070	1,291	1,427	1,460	1,481
	DOD-L-20	65,965,776	54,801,012	79,001,018	92,834,941	98,533,869	98,949,391	98,955,499
	KK-L-2004	12,827	10,533	15,211	17,826	18,873	18,893	18,809
	KK-L-254							
	KK-L-271	15,262	11,228	16,260	19,071	20,191	20,208	20,119
	KSA-K-7000	655,304	357,353	521,807	602,173	627,550	623,842	619,884
	KSA-N-1000	4,242	3,377	4,718	5,672	6,270	6,418	6,504
	KSA-PC-100	28,468	20,776	31,853	36,806	37,583	36,720	36,200
	KSA-WP-100	5,332	4,548	6,351	7,639	8,444	8,634	8,759
	L-S-125	586,520	442,804	647,816	753,136	786,476	781,350	773,847
	LPP-DES8-78	99,732	77,808	114,070	131,797	137,249	136,360	135,500
	MIL-B-17757	170,115	125,231	181,387	212,706	225,192	225,372	224,378
	MIL-B-41828	7,209,298	5,458,502	7,892,789	9,242,468	9,773,035	9,775,828	9,726,842
	MIL-B-81813	107,185	68,010	97,185	114,204	121,693	122,312	121,957
	MIL-C-15085	154,704	724,345	1,068,872	1,235,055	1,313,526	1,324,218	1,353,659
	MIL-C-1734	2,580	2,788	4,016	4,840	5,064	5,201	5,427
	MIL-C-43258	755,379	557,257	809,491	946,228	997,570	996,354	990,926
	MIL-C-43303	2,369,324	2,250,201	3,269,186	3,817,980	4,021,084	4,013,804	3,986,798
	MIL-C-43424	23,674	17,898	25,843	30,344	32,020	31,953	31,614
	MIL-C-43678	1,288,682	945,903	1,365,428	1,600,381	1,694,940	1,696,871	1,689,310
	MIL-C-43701	57,137	41,775	60,771	70,898	74,617	74,480	74,090
	MIL-C-5040	4,006,762	3,790,086	4,106,680	4,275,664	4,335,008	4,330,700	4,320,841
	MIL-C-7515	2,728,578	2,706,729	2,737,448	2,752,465	2,757,084	2,756,331	2,755,602
	MIL-C-83242	80,878	51,816	71,060	84,633	91,852	93,248	92,528
	MIL-H-41802	279,250	860,016	1,301,168	1,508,502	1,553,346	1,528,314	1,508,364
	MIL-L-11075	14,880	11,159	16,406	18,955	19,580	19,337	19,038
	MIL-L-15040	60,960	501,474	722,339	834,683	910,910	935,662	976,323
	MIL-L-1670	37,200	27,899	41,014	47,387	48,950	48,342	47,590
	MIL-L-1709	232,427	181,196	265,076	306,274	320,784	320,059	320,096

SCENARIO B

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
Z	MIL-L-40051	47,278	34,205	49,370	57,866	61,287	61,357	61,081
	MIL-L-40069	1,800	1,533	2,320	2,651	2,776	2,742	2,739
	MIL-P-15084	690,864	1,517,266	2,663,788	3,091,334	3,307,800	3,345,038	3,421,892
	MIL-R-1670	158,000	131,655	198,698	229,823	238,236	235,477	235,035
	MIL-R-17343	1,875,000	487,384	714,533	825,572	859,720	854,148	848,754
	MIL-R-24049	6,750,000	1,754,584	2,572,318	2,972,058	3,094,891	3,074,832	3,055,513
	MIL-R-30500	4,988,083	1,537,040	2,259,363	2,610,475	2,718,987	2,697,835	2,681,835
	MIL-S-3577	388,651	281,613	431,513	498,866	509,735	498,200	491,197
	MIL-S-43355	393,928	1,228,592	1,858,812	2,155,004	2,218,068	2,180,448	2,154,808
	MIL-S-43993	7,029						
	MIL-S-6790	28,773	23,304	34,098	39,548	41,129	40,769	40,261
	MIL-T-40628	300,144	222,537	330,012	382,364	398,110	394,866	392,883
	T-C-571	611,340	476,725	703,454	816,913	852,493	846,477	841,350
	T-R-605	8,072	2,141	3,083	3,563	3,889	3,994	4,168
	T-R-618	3,960	159	229	265	289	297	310
	T-T-871	1,045,644	758,239	1,108,794	1,291,865	1,359,039	1,355,638	1,348,976
	T-T-881	22,643	16,546	25,231	29,165	29,935	29,364	29,071
	T-T-911	883,572	646,761	945,873	1,103,087	1,159,631	1,156,312	1,151,088
	V-F-106	154,200	36,086	55,346	63,947	65,282	63,774	62,866
	V-L-81	1,419,410	1,063,238	1,534,868	1,799,229	1,905,090	1,908,833	1,897,487
Z	**TOTAL	106,711,735	84,572,092	119,885,524	139,287,425	147,299,654	147,628,272	147,547,505

SCENARIO C

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
B	CC-C-467	504	237	257	282	297	301	311
	CCC-C-41	24,174	13,524	14,070	14,624	14,578	14,474	14,682
	CCC-C-419	3,852,038	2,098,448	2,292,381	2,508,638	2,622,888	2,658,888	2,744,058
	CCC-C-426	284,568	151,710	162,818	175,870	182,762	184,083	189,325
	CCC-C-428	528	14	16	18	19	20	20
	CCC-C-429	1,021,523	558,030	607,464	665,342	697,067	705,859	729,525
	CCC-C-430	2,298,613	1,210,895	1,273,907	1,319,234	1,328,547	1,328,088	1,339,882
	CCC-C-432	38,048	20,223	21,630	22,658	23,024	23,144	23,550
	CCC-C-438	3,778,132	2,139,848	2,381,756	2,678,352	2,848,235	2,898,641	3,018,028
	CCC-C-438	432,998	281,881	281,325	298,840	304,868	306,626	312,243
	CCC-C-440	7,583	4,401	4,784	5,244	5,525	5,589	5,792
	CCC-C-441	621	327	343	347	349	348	353
	CCC-C-448	72,870	45,116	48,032	49,897	50,427	50,600	51,332
	CCC-C-461	799,681	429,201	451,848	470,465	473,900	472,773	477,243
	CCC-C-467	2,821,880	1,588,965	1,739,814	1,919,371	2,020,702	2,048,845	2,122,503
	CCC-C-478	1,998	1,134	1,293	1,474	1,570	1,608	1,680
	KSA-B-1000	10,462	6,985	7,513	7,940	8,055	8,109	8,238
	KSA-C-1100	1,234	208	232	287	288	294	308
	KSA-C-1200	1,044,414	555,585	582,568	589,513	592,211	591,104	598,493
	KSA-C-2000	1,803,507	720,045	800,959	919,428	993,011	1,011,284	1,059,087
	KSA-C-3000	252,274	135,499	140,065	145,518	148,029	145,014	145,895
	KSA-C-4000	81	48	50	55	58	59	61
	KSA-C-5000	1,834	998	1,180	1,327	1,379	1,428	1,479
	KSA-C-8000	152,283	119,023	127,529	135,638	139,162	139,979	143,078
	KSA-C-9000	242,838	191,233	204,899	217,768	223,589	224,902	229,881
	LPP-DES13-80	10,164	6,694	7,548	8,641	9,271	9,474	9,912
	LPP-DES18-73	987,173	639,181	691,829	748,774	778,641	788,259	809,295
	LPP-DES23-73	474,653	278,011	301,291	328,184	339,194	342,512	352,547
	LPP-DES32-75	698,124	423,997	444,214	488,610	513,833	521,511	540,440
	MIL-C-10176	1,105,137	558,753	683,711	773,144	812,102	837,164	879,190
	MIL-C-10298	4,512,328	2,717,121	2,934,062	3,158,403	3,272,399	3,301,886	3,393,802
	MIL-C-10799	12,468	7,008	7,691	8,373	8,708	8,824	9,092
	MIL-C-10859	2,288,920	1,253,756	1,384,888	1,487,001	1,553,248	1,570,845	1,620,429
	MIL-C-11065	958,670	540,541	585,653	634,093	659,758	668,453	685,212
	MIL-C-12085	1,024,198	588,237	645,317	712,059	750,000	760,544	788,230
	MIL-C-12189	3,071,980	1,905,433	2,094,770	2,303,732	2,422,378	2,458,445	2,547,605
	MIL-C-12369	515,121	689,054	760,786	851,132	903,152	917,684	954,263
	MIL-C-15062	11,976	29,952	34,874	39,453	41,487	42,738	44,432
	MIL-C-16290	330,335	184,448	191,938	198,008	198,713	197,365	198,674
	MIL-C-16375	24,839	37,234	41,457	47,690	51,573	52,535	55,094
	MIL-C-16387	190,551	111,771	121,504	133,178	140,318	141,948	147,104
	MIL-C-19002	825	498	520	528	529	528	534
	MIL-C-19699	2,851	1,608	1,672	1,725	1,732	1,723	1,734
	MIL-C-19759	953,300	538,890	570,481	592,318	598,339	600,044	609,408
	MIL-C-20698	21,682	12,048	13,078	14,260	14,950	15,115	15,824
	MIL-C-21115	4,690,089	2,998,574	3,410,065	3,791,284	3,853,932	4,048,810	4,187,344
	MIL-C-2104	8,584	4,904	5,460	6,281	6,793	6,919	7,258
	MIL-C-21852	284,737	140,315	149,560	158,998	162,680	163,235	168,297
	MIL-C-21881	1,567,321	823,760	935,247	1,020,427	1,049,609	1,074,438	1,104,875
	MIL-C-23928	825	498	520	528	529	528	534

SCENARIO C

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
B	MIL-C-29118	38,040	24,056	25,989	28,187	29,392	29,653	30,543
	MIL-C-29127	909,976	486,782	506,385	522,451	525,314	523,533	527,675
	MIL-C-29137	7,875	4,397	4,764	5,249	5,519	5,577	5,783
	MIL-C-29147	695,011	394,184	410,084	423,304	424,796	421,843	424,407
	MIL-C-29383	230,279	123,904	146,522	164,521	170,912	176,886	183,208
	MIL-C-297	601,838	322,255	369,498	408,806	423,339	434,512	448,311
	MIL-C-328	837,372	941,650	1,048,871	1,167,593	1,227,412	1,249,988	1,295,001
	MIL-C-332	1,129,343	611,786	683,033	717,815	746,448	753,750	775,833
	MIL-C-3395	13,551	7,579	8,310	9,153	9,647	9,784	10,148
	MIL-C-342	3,838,575	2,181,458	2,306,090	2,412,010	2,450,175	2,460,893	2,502,722
	MIL-C-3453	876	876	876	876	876	876	876
	MIL-C-368	609,468	1,221,102	1,400,404	1,585,295	1,675,283	1,719,645	1,789,878
	MIL-C-3738	57,205	30,480	38,017	40,424	41,986	43,446	44,993
	MIL-C-3780	103,738	57,385	62,123	67,219	69,894	70,590	72,658
	MIL-C-3924	2,232,928	1,273,918	1,380,835	1,498,654	1,563,295	1,579,497	1,628,441
	MIL-C-3953	1,025	1,025	1,028	1,025	1,025	1,025	1,025
	MIL-C-40039	5,397	2,978	3,221	3,548	3,732	3,769	3,895
	MIL-C-41808	41,108	23,228	25,251	27,873	29,183	29,502	30,574
	MIL-C-41820	489,958	317,378	358,912	410,452	439,524	449,531	470,022
	MIL-C-4277	131,239	131,239	131,239	131,239	131,239	131,239	131,239
	MIL-C-43122	356,573	136,208	146,487	158,545	165,337	166,841	171,834
	MIL-C-43128	386,200	240,015	262,248	286,764	300,089	303,920	313,978
	MIL-C-43191	6,316,273	3,440,484	3,718,134	4,015,644	4,171,301	4,209,970	4,330,235
	MIL-C-43204	167,308	94,842	103,510	113,005	118,037	119,482	123,301
	MIL-C-43234	58,249	31,978	34,624	37,447	38,926	39,311	40,455
	MIL-C-43251	793,268	381,963	428,819	487,353	523,387	533,606	558,129
	MIL-C-43378	177,457	102,829	111,442	120,850	123,482	126,690	130,401
	MIL-C-43468	4,097,891	2,660,092	2,828,329	2,939,104	2,978,832	2,988,180	3,036,278
	MIL-C-43473	2,438,303	1,403,819	1,515,911	1,634,598	1,697,151	1,714,509	1,763,380
	MIL-C-43479	2,269,544	1,393,465	1,491,668	1,568,451	1,598,541	1,607,485	1,637,673
	MIL-C-43482	3,089,708	1,539,484	1,695,869	1,902,293	2,020,498	2,051,851	2,133,030
	MIL-C-43525	402,334	208,783	228,835	257,597	274,287	278,712	290,182
	MIL-C-43594	2,414,498	817,626	873,308	738,991	777,826	787,417	815,885
	MIL-C-43600	50,820	33,470	37,738	43,206	46,353	47,372	49,560
	MIL-C-43605	883,480	492,217	541,212	595,301	626,032	635,385	658,447
	MIL-C-43627	4,735,678	2,722,093	2,972,235	3,259,478	3,419,665	3,462,355	3,580,564
	MIL-C-43637	1,105,200	670,381	725,893	785,109	816,116	824,190	848,179
	MIL-C-43675	68,049	34,743	38,684	44,498	48,122	49,020	51,408
	MIL-C-43718	1,221,789	1,171,752	1,294,301	1,429,672	1,498,518	1,522,526	1,574,505
	MIL-C-43734	12,983	11,058	12,229	13,876	14,499	14,738	15,323
	MIL-C-43774	4,843	3,025	3,389	3,889	4,189	4,275	4,478
	MIL-C-43791	70,551	37,589	40,042	42,991	44,426	44,815	45,670
	MIL-C-43842	134,709	115,748	128,512	144,730	154,087	156,817	163,384
	MIL-C-43843	1,241,741	752,606	815,091	882,070	917,268	926,420	953,568
	MIL-C-43847	21,216	11,988	13,033	14,285	15,052	15,227	15,780
	MIL-C-43874	23,040	12,994	14,138	15,517	16,363	16,557	17,165
	MIL-C-43906	4,065,171	2,241,578	2,406,238	2,593,719	2,697,284	2,715,533	2,792,832
	MIL-C-43920	816,290	330,265	358,154	380,885	386,831	390,064	386,771
	MIL-C-43992	3,271,563	510,209	568,094	653,482	706,690	719,882	754,940
	MIL-C-44031	26,595,592	17,274,873	18,721,379	20,268,328	21,076,928	21,283,187	21,906,799

SCENARIO C

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
B	MIL-C-44034	7,842	4,229	4,849	5,114	5,378	5,458	5,657
	MIL-C-44043	90,884	77,407	85,600	95,731	101,493	103,171	107,258
	MIL-C-44050	931,117	767,791	850,251	952,521	1,010,749	1,027,874	1,069,108
	MIL-C-483	271,934	162,751	178,911	193,864	204,219	208,589	214,072
	MIL-C-484	2,313,209	1,397,934	1,514,861	1,641,975	1,710,882	1,728,330	1,780,844
	MIL-C-508	1,357,203	805,921	884,080	972,933	1,022,281	1,038,722	1,073,299
	MIL-C-51251	250,860	148,889	161,219	174,370	181,257	183,050	188,378
	MIL-C-7020	1,070,409	1,088,764	1,068,885	1,068,918	1,068,928	1,068,923	1,068,958
	MIL-C-7219	1,191,729	872,850	727,511	785,897	818,348	824,089	847,599
	MIL-C-7350	6,954,867	4,307,370	4,625,532	4,965,358	5,143,156	5,188,958	5,328,290
	MIL-C-81614	165,423	88,493	92,383	94,429	94,847	94,498	95,387
	MIL-C-82252	34,891	18,577	22,010	24,742	25,714	26,628	27,587
	MIL-C-823	2,344,574	2,738,667	3,082,332	3,410,481	3,553,994	3,628,546	3,748,125
	MIL-C-83429	967,898	617,970	671,797	738,358	775,849	784,879	813,394
	MIL-C-83450	52,999	28,278	29,518	30,173	30,308	30,194	30,479
	MIL-C-87052	933,444	2,832,770	2,738,973	2,827,404	2,837,374	2,817,651	2,834,774
	MIL-F-43539	157,517	88,650	95,995	103,837	107,948	109,017	112,194
	MIL-T-43594	255,908,928	39,909,714	44,437,589	51,118,830	55,278,847	58,310,753	59,053,119
	MIL-T-43718	35,619	18,719	20,843	23,978	25,928	28,412	27,698
	MIL-W-844	3,049,880	2,099,890	2,247,182	2,387,859	2,458,287	2,470,840	2,528,199
		7 856 573	6 108 178	6 716 227	7 387 445	7 768 785	7 884 861	8 171 048
B	**TOTAL	399,359,398	129,215,95E	141,500,328	156,318,272	164,618,805	166,868,529	172,840,853
K	KSA-C-1000	135,300	75,888	80,572	83,693	84,580	84,869	88,093
	KSA-K-1000	890	5,482,319	5,914,347	6,398,657	6,849,310	6,715,071	6,910,521
	KSA-K-2000	629,221	383,514	419,888	464,078	487,548	494,043	510,907
	KSA-K-3000	1,666,959	1,039,197	1,125,188	1,218,937	1,264,998	1,277,508	1,314,885
	KSA-K-4000	64,871	38,369	39,378	42,589	44,270	44,708	46,009
	KSA-K-5000	865	356	370	382	383	381	384
	KSA-K-6000	18,021	9,242	9,920	10,693	11,120	11,195	11,514
	KSA-K-8000	11,374	6,275	6,794	7,348	7,638	7,713	7,938
	KSA-K-900	1,440	797	867	950	1,001	1,013	1,049
	KSA-Y-1000	1,514,817,600	786,739,090	850,886,658	918,745,490	954,109,658	983,186,486	990,702,344
	KSA-Y-2000	15,143,226	11,617,319	12,589,498	13,681,631	14,241,347	14,382,837	14,804,164
	KSA-Y-3000	86,163	55,946	60,576	65,516	68,103	68,777	70,779
	LPP-DES12-80	26,138	17,213	19,408	22,220	23,839	24,363	25,488
	MIL-C-17155	721,708	436,760	463,149	485,622	491,825	492,664	499,275
	MIL-C-17157	1,339,726	849,810	911,445	981,499	1,020,294	1,027,350	1,056,399
	MIL-C-3736	4,136,544	2,487,677	2,671,434	2,855,428	2,944,454	2,965,044	3,037,481
	MIL-C-41831	21,402	14,289	15,370	16,243	16,477	16,588	16,849
	MIL-C-43247	109,753	64,120	69,608	75,497	78,634	79,481	81,893
	MIL-C-43352	6,170	1,256	1,368	1,497	1,577	1,596	1,654
	MIL-C-43358	175,107	106,928	114,140	123,573	128,504	129,762	134,557
	MIL-C-43824	18,238	10,879	11,820	12,949	13,637	13,795	14,292
	MIL-C-43858	1,650,263	5,433,102	5,973,983	6,571,017	6,910,225	7,013,479	7,268,046
	MIL-C-43892	1,856,573	6,109,178	6,716,227	7,387,445	7,768,785	7,884,861	8,171,048
	MIL-C-43938	337,508	177,487	197,623	227,327	245,838	250,428	262,622
	MIL-C-43983	799,764	518,403	569,046	631,848	665,724	674,845	698,876
	MIL-C-6590	248,189	147,411	159,764	174,241	182,992	184,937	191,331
	MIL-C-8061	408	253	277	307	322	327	338

SCENARIO C

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
K	MIL-C-81393	930	583	635	727	780	797	833
	MIL-C-83398	69,628	37,039	38,838	39,301	39,481	39,413	39,900
	MIL-G-3888	409,940	228,420	251,158	278,258	290,520	294,880	305,582
K	**TOTAL	1,544,504,303	822,085,898	889,319,225	980,598,984	997,793,858	1,007,369,187	1,038,272,831
M	KSA-NW-100	23,470	42,517	44,599	45,147	45,360	45,288	45,852
M	**TOTAL	23,470	42,517	44,599	45,147	45,360	45,288	45,852
N	DDD-T-88	2,965,408	2,231,997	2,401,861	2,573,445	2,643,270	2,680,168	2,717,732
	KSA-R-1000	8,080						
	KSA-T-2000	557,001	297,718	320,213	338,385	343,261	345,553	350,988
	KSA-T-3000	49,344	8,328	9,272	10,868	11,534	11,750	12,322
	KSA-T-4000	283,168	138,138	153,810	176,928	191,334	194,908	204,398
	KSA-W-1000	30,840	5,205	5,795	6,666	7,209	7,344	7,701
	MIL-B-1667	481,216	253,125	281,843	324,205	350,603	357,147	374,541
	MIL-B-371	14,632,618	15,275,509	16,685,886	18,154,432	18,967,854	19,202,700	19,826,208
	MIL-G-593	1,164,198	809,074	880,031	981,773	1,006,75[illegible]	1,018,297	1,051,534
	MIL-C-7040	3,821,030	3,821,030	3,821,030	3,821,030	3,821,030	3,821,030	3,821,030
	MIL-F-21840	5,463,733	4,182,871	4,545,041	4,950,354	5,179,970	5,238,248	5,410,768
	MIL-T-2283	208,883	111,117	1[illegible]6,514	117,903	118,442	118,239	119,899
	MIL-T-43566	17,475,819	16,034,151	16,390,191	17,873,953	18,682,667	18,907,397	19,520,390
	MIL-T-43709	18,793	7,873	8,863	10,154	10,906	11,139	11,858
	MIL-T-5038	5,437,838	3,382,940	3,631,595	3,919,291	4,069,884	4,108,483	4,224,540
	MIL-T-5237	50,916	48,804	52,998	56,391	57,329	57,835	58,853
	MIL-T-5661	33,059	32,743	32,788	32,772	32,775	32,774	32,780
	MIL-T-6134	47,138	47,136	47,136	47,136	47,136	47,136	47,136
	MIL-T-8363	185	111	117	118	118	118	120
	MIL-W-17337	53,801	41,581	45,854	51,092	54,098	54,950	57,091
	MIL-W-27265	579,742	538,920	541,413	546,206	548,717	549,371	551,313
	MIL-W-4088	7,049,193	4,081,887	4,425,697	4,808,160	5,010,008	5,087,217	5,220,993
	MIL-W-43566	291	291	291	291	291	291	291
	MIL-W-43638	2,599,693	1,486,482	1,631,194	1,799,032	1,893,307	1,920,008	1,989,112
	MIL-W-43668	3,155,603	1,477,147	1,600,847	1,733,100	1,802,224	1,819,867	1,873,182
	MIL-W-43685	395,507	222,029	244,463	269,574	283,876	288,235	298,889
	MIL-W-43688	360,497	211,209	229,945	249,578	259,885	261,612	270,493
	MIL-W-5038	4,252	4,252	4,252	4,252	4,252	4,252	4,252
	MIL-W-530	12,824,245	7,472,058	8,142,838	8,899,402	9,320,853	9,432,851	9,746,972
	MIL-W-5625	10,858	10,858	10,858	10,858	10,858	10,858	10,858
	MIL-W-5664	579,499	335,787	365,738	398,311	416,287	421,327	435,004
	MIL-W-5665	469,447	285,255	291,885	299,013	302,771	303,724	306,611
	PPP-T-80	393	393	393	393	393	393	393
N	**TOTAL	80,610,258	61,633,699	68,700,430	72,242,864	75,249,691	76,076,216	78,357,870
T	C-T-301	11,064	377	419	483	522	532	557
	KSA-T-1000	172,584	92,059	109,070	122,805	127,424	131,942	136,704
	MIL-T-34548	317,520	170,472	184,751	200,016	207,995	210,030	216,184
	MIL-T-43548	8,070,255,420	5,629,020,917	6,074,754,918	6,535,523,306	6,765,768,193	6,488,585,223	7,004,304,941

SCENARIO C

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
T	MIL-T-43624	54,568,080	9,586,065	10,423,040	11,092,151	11,403,891	11,491,297	11,782,329
	MIL-T-43636	30,476,623	24,602,827	27,197,154	30,408,989	32,237,533	32,767,399	34,063,951
	MIL-T-83193	85,961,076	58,885,304	63,485,013	68,638,883	71,675,795	72,308,415	74,583,047
	V-B-871	183,200	120,801	130,805	141,475	147,083	148,518	152,840
	V-T-278	1,523,441,628	1,285,901,025	1,424,217,820	1,547,431,158	1,600,915,619	1,627,756,214	1,674,827,853
	V-T-280	35,861,069	27,573,468	29,994,812	32,503,564	33,781,438	34,155,048	35,159,393
	V-T-285	1,208,240,184	698,809,829	759,799,814	827,815,729	864,388,795	874,004,811	901,508,598
	V-T-295	478,604,625	310,937,160	334,890,001	359,636,368	372,346,010	375,651,032	385,882,649
	V-T-301	10,046,052	24,659,441	28,218,179	31,989,292	33,872,045	34,748,424	38,191,646
	V-T-385	52,368,400	32,160,165	34,269,311	35,615,722	35,987,544	36,097,447	36,615,434
T	**TOTAL	1,588,475,525	8,102,819,910	8,787,872,707	9,481,119,743	9,822,857,887	9,868,058,332	10,195,208,226
W	MIL-B-87019	47,552	25,551	26,582	27,440	27,537	27,348	27,812
	MIL-C-29365	31,843	17,245	20,366	22,850	23,730	24,551	25,423
	MIL-C-43836	38,045	16,406	17,904	19,671	20,621	20,872	21,567
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
W	**TOTAL	117,440	59,202	64,852	69,961	71,888	72,789	74,502
Z	C-F-208	1,073	590	638	673	683	687	698
	DD-L-20	3,788,544	2,361,812	2,567,248	2,765,767	2,874,995	2,903,422	2,987,921
	DDD-L-20	57,295,919	40,114,658	43,679,415	47,312,251	49,118,871	49,680,881	51,121,891
	JJ-W-155	31,468,828	20,026,370	21,717,959	23,522,105	24,473,635	24,728,449	25,483,661
	KK-L-2004	12,627	8,078	8,750	9,470	9,849	9,946	10,238
	KK-L-271	15,282	8,589	9,308	10,077	10,479	10,582	10,892
	KSA-K-7000	855,304	268,489	292,564	321,261	337,590	342,845	354,942
	KSA-N-1000	4,242	2,642	2,842	3,004	3,048	3,088	3,117
	KSA-PC-100	28,488	14,989	16,888	19,187	20,744	21,131	22,157
	KSA-WP-100	5,332	3,560	3,829	4,046	4,105	4,132	4,197
	L-S-125	586,520	335,588	365,174	399,095	418,544	423,384	437,749
	LPP-DES8-78	99,732	57,714	63,459	69,801	73,405	74,502	77,208
	MIL-B-17757	170,115	95,795	103,819	112,401	116,888	118,032	121,492
	MIL-B-41826	7,209,298	4,182,732	4,531,915	4,907,352	5,108,223	5,157,659	5,310,623
	MIL-B-81813	107,185	52,708	56,830	60,866	62,847	63,375	65,002
	MIL-C-15085	154,704	487,109	582,863	638,362	674,086	693,345	721,862
	MIL-C-1734	2,580	1,791	2,121	2,385	2,478	2,566	2,659
	MIL-C-43256	755,379	424,051	460,678	500,445	521,833	527,431	543,738
	MIL-C-43303	2,369,324	1,711,946	1,860,712	2,024,421	2,113,362	2,136,889	2,204,222
	MIL-C-43424	23,874	14,014	15,030	16,185	16,825	16,942	17,421
	MIL-C-43678	1,268,682	726,060	786,191	850,351	883,959	892,708	918,704
	MIL-C-43701	57,137	31,625	34,441	37,495	39,150	39,603	40,882
	MIL-C-5040	4,008,762	3,625,370	3,670,353	3,720,407	3,748,180	3,754,988	3,775,845
	MIL-C-7515	2,728,578	2,689,708	2,694,573	2,699,948	2,702,999	2,703,928	2,708,219
	MIL-C-83242	80,878	43,158	45,052	46,050	46,254	46,084	46,519
	MIL-H-41602	139,625	314,652	348,048	394,730	423,110	430,159	449,302
	MIL-L-11075	14,880	8,471	9,208	10,090	10,630	10,753	11,143
	MIL-L-15040	60,960	322,094	381,613	428,968	445,827	461,637	478,298
	MIL-L-1870	37,200	21,179	23,020	25,228	26,574	26,882	27,857
	MIL-L-1709	232,427	132,200	146,572	161,628	169,738	172,678	178,942
	MIL-L-40051	47,278	26,263	28,435	30,752	31,960	32,282	33,221

SCENARIO C

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
Z	MIL-L-40089	1,800	1,079	1,217	1,393	1,495	1,528	1,598
	MIL-P-15064	890,864	1,237,362	1,421,059	1,598,611	1,679,091	1,724,140	1,790,045
	MIL-R-1870	158,000	93,377	104,908	119,809	128,060	130,746	138,837
	MIL-R-17343	1,875,000	381,523	397,509	437,238	459,808	468,677	483,618
	MIL-R-24049	8,750,000	1,301,483	1,431,033	1,574,050	1,655,307	1,680,037	1,741,017
	MIL-R-30500	4,989,083	1,135,839	1,251,017	1,380,450	1,454,141	1,478,683	1,531,508
	MIL-S-3577	388,651	203,420	228,322	280,044	281,018	288,195	300,023
	MIL-S-43355	199,484	449,503	497,211	583,900	604,443	614,571	641,860
	MIL-S-43993	7,028						
	MIL-S-8790	28,773	17,740	19,265	21,040	22,089	22,338	23,104
	MIL-T-40825	300,144	162,971	130,285	200,945	212,719	218,257	224,747
	T-C-571	811,340	353,888	388,817	430,244	453,787	460,435	477,523
	T-R-805	8,072	1,375	1,629	1,831	1,904	1,971	2,042
	T-R-818	3,980	102	121	138	142	147	152
	T-T-871	1,045,844	571,874	623,890	681,899	713,480	722,130	745,818
	T-T-881	22,843	11,871	13,254	15,188	16,374	16,692	17,482
	T-T-911	883,872	485,881	531,054	581,781	609,468	617,227	637,910
	V-F-108	154,200	28,024	28,978	33,331	36,045	36,718	38,508
	V-L-81	1,419,410	817,300	884,358	958,198	993,988	1,003,578	1,032,729
Z	**TOTAL	132,980,180	85,344,187	92,481,267	99,982,689	103,812,190	104,968,880	107,674,915

SCENARIO D

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
B	CCC-C-41	24,174	21,155	34,515	47,876	61,237	74,598	87,959
	CCC-C-419	3,746,178	3,180,056	5,166,560	7,153,064	9,139,567	11,126,070	13,112,570
	CCC-C-428	284,568	230,503	378,082	521,664	667,244	812,823	958,404
	CCC-C-428	528	20	33	45	58	71	84
	CCC-C-429	1,207,068	954,937	1,558,053	2,161,167	2,764,284	3,367,401	3,970,517
	CCC-C-430	1,130,985	892,839	1,456,736	2,020,635	2,584,533	3,148,431	3,712,329
	CCC-C-432	38,048	30,862	50,355	69,847	89,339	108,831	128,323
	CCC-C-438	3,776,132	3,197,870	5,217,250	7,236,831	9,256,413	11,275,993	13,295,573
	CCC-C-438	67,649	59,919	97,784	135,607	173,452	211,295	249,139
	CCC-C-440	7,583	6,594	10,759	14,923	19,088	23,253	27,417
	CCC-C-441	621	495	808	1,121	1,434	1,747	2,059
	CCC-C-448	72,870	69,010	112,595	156,180	199,766	243,351	286,936
	CCC-C-461	873	705	1,150	1,595	2,040	2,485	2,930
	CCC-C-467	2,948,040	2,463,898	4,020,043	5,578,190	7,132,337	8,688,480	10,244,629
	CCC-C-478	1,998	1,682	2,744	3,806	4,868	5,930	6,992
	KSA-B-1000	10,462	10,765	17,565	24,364	31,163	37,962	44,761
	KSA-C-1100	1,234	310	506	701	897	1,093	1,208
	KSA-C-1200	1,044,414	840,455	1,371,269	1,902,083	2,432,897	2,963,711	3,494,525
	KSA-C-2000	1,442,828	996,724	1,626,235	2,255,746	2,885,255	3,514,766	4,144,276
	KSA-C-4000	81	68	111	155	198	241	284
	KSA-C-5000	1,834	1,468	2,395	3,322	4,249	5,176	6,103
	LPP-DES13-80	10,164	8,945	18,228	22,507	28,788	35,069	41,350
	LPP-DES18-73	987,173	985,987	1,576,050	2,166,135	2,756,220	3,406,303	4,016,387
	LPP-DES23-73	474,653	420,808	686,579	952,350	1,218,123	1,483,894	1,749,667
	LPP-DES32-75	698,124	604,078	985,598	1,367,120	1,748,642	2,130,163	2,511,685
	MIL-C-10298	4,512,328	4,114,517	6,713,160	9,311,802	11,910,445	14,509,088	17,107,730
	MIL-C-10799	12,468	10,570	17,246	23,922	30,597	37,273	43,948
	MIL-C-10859	2,268,920	1,893,228	3,088,953	4,284,675	5,480,400	6,676,122	7,871,844
	MIL-C-11065	958,670	817,902	1,334,472	1,851,042	2,367,611	2,884,181	3,400,750
	MIL-C-12095	1,024,198	882,699	1,440,193	1,997,688	2,555,182	3,112,677	3,670,169
	MIL-C-12189	3,068,303	2,846,451	4,644,210	6,441,969	8,239,728	10,037,488	11,835,245
	MIL-C-12369	515,121	1,032,948	1,685,337	2,337,725	2,990,112	3,642,501	4,294,889
	MIL-C-15062	3,998	3,140	5,123	7,106	9,089	11,071	13,054
	MIL-C-16290	330,335	288,204	470,227	652,251	834,275	1,016,298	1,198,322
	MIL-C-18375	138	7	11	16	20	25	29
	MIL-C-18387	190,551	167,484	273,263	379,043	484,822	590,601	696,381
	MIL-C-19002	825	750	1,224	1,698	2,172	2,646	3,120
	MIL-C-19699	2,851	2,514	4,102	5,690	7,278	8,868	10,454
	MIL-C-19759	953,300	822,157	1,341,415	1,860,672	2,379,929	2,899,185	3,418,443
	MIL-C-20698	21,662	18,123	29,569	41,015	52,461	63,907	75,353
	MIL-C-21115	227,379	178,645	291,474	404,302	517,131	629,959	742,788
	MIL-C-2184	8,584	7,301	11,911	16,522	21,133	25,744	30,355
	MIL-C-21852	85,121	68,048	107,759	149,473	191,185	232,898	274,612
	MIL-C-23928	825	750	1,224	1,698	2,172	2,646	3,120
	MIL-C-29118	37,888	38,374	59,348	82,321	105,294	128,267	151,240
	MIL-C-29127	25,872	24,510	39,990	55,470	70,950	86,430	101,910
	MIL-C-29137	7,375	6,683	10,905	15,125	19,347	23,568	27,789
	MIL-C-29147	695,011	618,540	1,005,934	1,395,328	1,784,722	2,174,116	2,563,510
	MIL-C-297	288,404	234,458	382,538	530,615	678,694	826,772	974,851
	MIL-C-328	47,933	41,048	68,973	92,898	118,823	144,749	170,674

SCENARIO D

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
B	MIL-C-332	1,129,343	928,031	1,510,893	2,095,765	2,680,617	3,265,479	3,850,341
	MIL-C-3395	13,551	11,338	18,500	25,662	32,823	39,984	47,145
	MIL-C-342	3,836,575	3,501,103	5,386,010	7,470,917	9,555,825	11,640,731	13,725,638
	MIL-C-3453	876	876	876	876	876	876	876
	MIL-C-388	128,309	100,915	184,650	228,388	292,121	355,857	419,592
	MIL-C-3760	103,738	86,882	141,722	19[illegible],582	251,441	306,301	361,161
	MIL-C-3924	2,232,928	1,924,079	3,139,287	4,3[illegible],494	5,589,703	6,784,911	8,000,119
	MIL-C-3953	1,025	1,025	1,025	1,025	1,025	1,025	1,025
	MIL-C-40039	5,397	4,528	7,388	10,248	13,107	15,967	18,927
	MIL-C-41808	41,106	34,806	56,789	78,772	100,755	122,738	144,721
	MIL-C-41820	455,087	443,911	724,276	1,004,841	1,285,005	1,565,370	1,845,735
	MIL-C-4277	131,239	131,239	131,239	131,239	131,239	131,238	131,239
	MIL-C-43122	356,573	206,540	336,985	487,431	597,878	728,323	858,769
	MIL-C-43128	388,200	381,397	589,850	817,901	1,046,152	1,274,403	1,502,855
	MIL-C-43191	6,318,273	5,215,854	8,510,077	11,804,301	15,098,525	18,392,749	21,686,973
	MIL-C-43204	187,308	143,120	233,811	323,902	414,294	504,684	595,074
	MIL-C-43234	58,249	48,427	79,013	109,599	140,185	170,770	201,356
	MIL-C-43251	725,349	515,013	840,285	1,165,558	1,490,827	1,816,099	2,141,371
	MIL-C-43375	177,457	155,844	253,945	352,247	450,548	548,850	647,152
	MIL-C-43468	4,097,991	4,055,607	6,617,043	9,178,478	11,739,915	14,301,350	16,862,786
	MIL-C-43473	2,438,303	2,129,118	3,473,824	4,818,530	6,163,236	7,507,942	8,852,648
	MIL-C-43479	2,001,830	1,895,811	3,093,165	4,290,519	5,487,873	6,685,227	7,882,581
	MIL-C-43482	2,602,480	1,932,503	3,153,032	4,373,559	5,594,089	6,814,618	8,035,145
	MIL-C-43525	388,577	283,789	463,025	642,259	821,494	1,000,730	1,179,965
	MIL-C-43594	172,194	372,108	607,124	842,140	1,077,155	1,312,170	1,547,186
	MIL-C-43600	50,820	49,725	81,130	112,538	143,941	175,346	208,751
	MIL-C-43605	883,480	735,988	1,200,822	1,665,657	2,130,491	2,595,326	3,060,160
	MIL-C-43627	4,733,830	4,098,219	6,683,303	9,270,390	11,857,475	14,444,559	17,031,645
	MIL-C-43637	1,105,200	1,015,194	1,656,389	2,297,545	2,938,720	3,579,895	4,221,071
	MIL-C-43718	455,950	409,731	668,508	927,284	1,186,061	1,444,838	1,703,616
	MIL-C-43724	12,983	16,573	27,040	37,507	47,974	58,441	68,908
	MIL-C-43774	4,943	4,498	7,339	10,180	13,022	15,863	18,704
	MIL-C-43791	70,551	57,812	94,324	130,837	167,350	203,862	240,375
	MIL-C-43842	134,709	173,101	282,428	391,753	501,080	610,408	719,732
	MIL-C-43843	1,230,178	1,129,599	1,843,031	2,556,462	3,269,893	3,983,324	4,696,756
	MIL-C-43847	21,218	17,985	29,311	40,657	52,003	63,349	74,695
	MIL-C-43874	23,040	19,468	31,763	44,059	56,354	68,650	80,946
	MIL-C-43892	1,858,573	9,133,260	14,901,633	20,670,008	26,438,383	32,206,757	37,975,132
	MIL-C-43906	4,065,171	3,402,118	5,550,823	7,699,529	9,848,236	11,996,941	14,145,647
	MIL-C-43920	871	828	1,350	1,873	2,397	2,919	3,442
	MIL-C-44031	28,595,592	26,147,416	42,661,574	59,175,732	75,689,890	92,204,048	108,718,206
	MIL-C-44034	7,842	6,323	10,316	14,309	18,303	22,296	26,289
	MIL-C-44043	90,804	116,010	189,280	262,549	335,819	409,088	482,358
	MIL-C-44050	931,117	1,149,978	1,876,281	2,602,582	3,328,884	4,055,187	4,781,489
	MIL-C-483	271,934	243,908	397,954	552,001	706,048	860,096	1,014,143
	MIL-C-484	2,312,486	2,112,551	3,446,792	4,781,035	6,115,277	7,449,520	8,783,762
	MIL-C-508	1,357,194	1,210,584	1,975,187	2,739,745	3,504,329	4,268,909	5,033,491
	MIL-C-51251	250,860	225,471	367,874	510,277	652,680	795,083	937,486
	MIL-C-7020	1,070,409	1,070,036	1,072,405	1,074,775	1,077,144	1,079,514	1,081,883
	MIL-C-7219	1,191,729	1,010,063	1,637,318	2,264,565	2,891,816	3,519,065	4,146,317

SCENARIO D

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
B	MIL-C-7350	6,954,867	8,271,216	9,824,683	13,578,150	17,231,617	20,885,082	24,538,549
	MIL-C-81814	165,423	136,215	222,247	308,278	394,309	480,339	566,371
	MIL-C-823	483,687	412,647	673,285	933,884	1,194,502	1,455,122	1,715,740
	MIL-C-83429	987,698	925,997	1,510,837	2,095,677	2,680,517	3,265,357	3,850,197
	MIL-C-83450	52,999	43,525	71,014	98,504	125,993	153,483	180,972
	MIL-F-43539	157,517	134,245	219,032	303,818	388,605	473,391	558,178
	MIL-W-844	3,049,890	3,198,539	5,218,405	7,234,272	9,253,139	11,272,005	13,290,872
B	**TOTAL	121,732,171	118,030,425	191,478,489	264,926,549	338,374,624	411,822,685	485,270,731
K	KSA-C-1000	135,300	115,772	188,892	262,011	335,130	408,249	481,369
	KSA-K-1000	690	8,271,985	13,498,397	18,720,808	23,945,220	29,169,632	34,394,043
	KSA-K-2000	629,221	580,822	947,858	1,314,491	1,681,325	2,048,160	2,414,995
	KSA-K-3000	1,866,959	1,573,738	2,567,677	3,561,617	4,555,557	5,549,498	6,543,438
	KSA-K-4000	84,671	65,076	89,881	124,646	159,431	194,216	229,001
	KSA-K-6000	18,021	14,027	22,886	31,746	40,605	49,464	58,324
	KSA-K-8000	11,374	9,502	15,504	21,505	27,507	33,508	39,510
	KSA-K-800	1,440	1,195	1,949	2,704	3,458	4,213	4,967
	KSA-Y-2000	15,143,226	17,649,795	28,797,035	39,944,273	51,091,513	62,238,752	73,385,991
	KSA-Y-3000	88,153	84,724	138,234	191,743	245,253	298,763	352,273
	LPP-DES12-80	26,136	25,573	41,724	57,875	74,027	90,178	106,329
	MIL-C-17155	721,708	676,283	1,103,410	1,530,536	1,957,662	2,384,787	2,811,918
	MIL-C-17157	1,339,728	1,290,426	2,105,432	2,920,439	3,735,445	4,550,451	5,365,457
	MIL-C-3735	4,136,544	3,789,635	6,183,089	8,576,541	10,969,998	13,363,448	15,756,901
	MIL-C-41831	21,402	22,022	35,931	49,840	63,749	77,658	91,567
	MIL-C-43247	109,753	98,900	158,100	219,299	280,498	341,698	402,897
	MIL-C-43352	6,170	1,882	3,071	4,260	5,449	6,638	7,827
	MIL-C-43358	175,107	161,808	260,089	360,768	461,448	562,127	667,419
	MIL-C-43624	18,238	16,307	26,606	36,905	47,203	57,503	67,802
	MIL-C-43858	1,650,283	8,123,835	13,254,878	18,385,521	23,516,364	28,647,207	33,778,050
	MIL-C-43983	711,312	714,446	1,165,678	1,616,905	2,068,134	2,519,363	2,970,593
	MIL-C-6590	246,189	221,345	361,142	500,940	640,737	780,533	920,330
	MIL-C-8061	408	383	625	867	1,108	1,350	1,592
	MIL-C-81393	930	836	1,364	1,892	2,421	2,949	3,477
	MIL-C-83398	69,828	56,030	91,418	126,806	162,193	197,581	232,968
	MIL-G-3668	409,940	341,546	557,260	772,974	988,686	1,204,400	1,420,114
K	**TOTAL	27,403,507	43,895,893	71,615,708	99,337,912	127,060,119	154,782,324	182,509,148
M	KSA-NW-100	23,470	64,312	104,930	145,548	186,167	226,785	267,403
M	**TOTAL	23,470	64,312	104,930	145,548	186,167	226,785	267,403
N	DDD-T-86	914,719	805,849	1,314,808	1,823,763	2,332,722	2,841,678	3,350,634
	JJ-W-155	31,404,998	30,236,841	49,333,958	68,430,979	87,527,990	106,625,005	125,722,023
	KSA-T-3000	49,344	12,397	20,227	28,057	35,886	43,716	51,546
	KSA-T-4000	263,166	205,643	335,522	465,402	595,281	725,161	855,040
	KSA-W-1000	30,840	7,748	12,642	17,535	22,429	27,322	32,216
	MIL-B-371	14,572,861	22,923,536	37,401,551	51,879,574	66,357,590	80,835,608	95,313,631
	MIL-B-593	1,120,402	1,027,712	1,676,793	2,325,874	2,974,956	3,624,037	4,273,118

SCENARIO D

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
N	MIL-C-7040	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030	3,621,030
	MIL-F-21840	5,462,853	8,294,887	10,288,582	14,243,508	18,218,449	22,193,389	26,170,313
	MIL-T-2283	208,883	168,091	274,254	380,417	486,579	592,742	698,905
	MIL-T-43588	17,348,085	22,821,580	36,908,897	51,198,208	65,483,521	79,770,833	94,058,151
	MIL-T-43709	16,795	11,700	19,090	26,479	33,869	41,260	48,649
	MIL-T-5038	5,437,838	5,009,240	8,073,481	11,137,717	14,201,957	17,266,197	20,330,433
	MIL-T-5661	33,059	32,987	33,442	33,897	34,352	34,807	35,262
	MIL-T-6134	47,136	47,136	47,136	47,136	47,136	47,136	47,136
	MIL-T-8363	185	168	274	380	487	593	699
	MIL-W-17337	53,801	82,310	101,864	141,018	180,371	219,724	259,080
	MIL-W-27265	579,742	584,853	618,792	668,731	720,670	772,609	824,548
	MIL-W-4088	7,049,193	8,011,785	9,625,412	13,239,059	16,852,703	20,466,349	24,079,997
	MIL-W-43566	291	291	291	291	291	291	291
	MIL-W-43638	2,599,693	2,231,774	3,641,315	5,050,858	6,460,402	7,869,940	9,279,484
	MIL-W-43685	3,155,803	2,235,863	3,647,987	5,060,112	6,472,238	7,884,362	9,296,488
	MIL-W-43685	395,507	331,868	541,469	751,071	960,673	1,170,274	1,379,874
	MIL-W-43688	380,497	319,137	520,697	722,258	923,818	1,125,378	1,326,938
	MIL-W-5038	4,252	4,252	4,252	4,252	4,252	4,252	4,252
	MIL-W-530	12,894,445	11,297,395	18,432,552	25,567,788	32,702,983	39,838,178	46,973,376
	MIL-W-5825	10,858	10,858	10,858	10,858	10,858	10,858	10,858
	MIL-W-5884	578,499	506,560	824,863	1,144,133	1,463,488	1,782,768	2,102,089
	MIL-W-5885	489,447	325,763	401,224	476,888	552,147	627,608	703,069
	PPP-T-60	393	393	393	393	393	393	393
		22,494	44,717	72,157	101,207	131,243	157,635	185,72[illegible]
N	**TOTAL	108,703,389	116,928,527	187,711,484	258,495,492	329,279,499	400,063,498	470,649,503
T	C-T-301	11,084	581	915	1,289	1,624	1,978	2,332
	MIL-T-34548	317,520	258,031	420,998	583,905	746,931	909,898	1,072,865
	MIL-T-43548	5,346,309,232	6,712,983,651	10,952,608,229	15,192,324,767	19,432,043,304	23,671,761,850	27,301,745,771
	MIL-T-43624	49,675,320	8,881,555	14,490,959	20,100,362	25,709,765	31,319,188	36,928,572
	MIL-T-43636	30,476,823	36,877,123	60,187,936	83,458,751	106,749,565	130,040,378	153,331,192
	MIL-T-83193	95,951,078	38,737,703	144,782,569	200,827,433	256,872,299	312,917,163	368,962,029
	V-B-871	183,200	182,936	298,475	414,013	529,552	645,091	760,629
	V-T-155	52,494	44,717	72,959	101,201	129,443	157,685	185,927
	V-T-276	1,116,873,244	1,262,747,090	2,060,271,572	2,857,796,053	3,655,320,536	4,452,845,012	5,250,369,495
	V-T-280	34,253,864	37,546,221	61,259,630	84,973,033	108,686,439	132,399,842	156,113,248
	V-T-285	1,201,603,692	1,042,215,653	1,700,457,123	2,358,698,595	3,016,940,066	3,675,181,529	4,333,422,995
	V-T-295	461,305,713	435,658,262	700,527,595	965,396,930	1,230,270,267	1,495,141,599	1,760,012,932
	V-T-301	3,409,790	2,845,909	4,643,325	6,440,742	8,238,158	10,035,575	11,832,991
T	**TOTAL	9,342,402,832	9,628,977,412	15,700,000,285	21,771,119,114	27,842,237,949	33,913,356,768	39,374,740,978
W	MIL-B-87019	47,552	39,867	65,209	90,451	115,693	140,935	166,177
	MIL-C-43836	24,468	13,417	21,891	30,365	38,840	47,313	55,787
		+25,470	+64,312	+104,930	+145,518	+186,167	+226,785	+267,405
W	**TOTAL	72,020	53,384	87,100	120,816	154,533	188,248	221,964
Z	C-F-208	1,073	909	1,483	2,057	2,631	3,204	3,778
	DDD-L-20	45,556,411	50,346,090	82,133,183	113,926,678	145,720,159	177,513,655	209,319,451
	KK-L-2004	12,627	12,231	19,955	27,679	35,405	43,130	50,854

SCENARIO D

TYPE	SPECIFICATION NUMBER	SCENARIO A	M+6	M+12	M+18	M+24	M+30	M+36
Z	KK-L-271	15,262	13,000	21,211	29,422	37,632	45,843	54,054
	KSA-K-7000	655,304	398,856	650,765	902,674	1,154,583	1,406,492	1,658,401
	KSA-N-1000	4,242	4,072	6,643	9,215	11,787	14,358	16,930
	KSA-PC-100	159	150	244	339	434	528	623
	KSA-WP-100	5,332	5,486	8,951	12,416	15,881	19,346	22,811
	L-S-125	586,520	604,755	823,545	1,142,339	1,461,129	1,779,921	2,098,715
	LPP-DES8-78	89,732	86,297	140,800	195,303	249,806	304,309	358,812
	MIL-B-17757	170,115	144,994	236,570	328,145	419,720	511,298	602,871
	MIL-B-41826	7,209,298	6,328,883	10,328,067	14,323,259	18,320,445	22,317,635	26,314,825
	MIL-B-81813	107,185	80,015	130,551	181,088	231,625	282,161	332,698
	MIL-C-15085	51,552	40,527	66,122	91,718	117,314	142,910	168,506
	MIL-C-1734	2,580	2,638	4,304	5,970	7,636	9,303	10,969
	MIL-C-43258	755,379	640,248	1,044,615	1,448,981	1,853,348	2,257,712	2,662,081
	MIL-C-43303	2,389,324	2,584,034	4,216,056	5,848,078	7,480,098	9,112,120	10,744,142
	MIL-C-43424	23,674	21,279	34,719	48,159	61,598	75,038	88,478
	MIL-C-43678	1,268,682	1,099,494	1,793,910	2,488,327	3,182,745	3,877,161	4,571,579
	MIL-C-43701	57,137	47,669	77,776	107,883	137,988	168,095	198,202
	MIL-C-5040	4,006,762	3,895,143	4,400,482	4,905,818	5,411,157	5,916,467	6,421,835
	MIL-C-7515	2,728,578	2,713,920	2,760,092	2,806,264	2,852,436	2,898,608	2,944,781
	MIL-C-83242	80,878	66,429	108,384	150,339	192,295	234,249	276,205
	MIL-H-41602	139,925	470,431	767,548	1,064,860	1,361,775	1,658,889	1,956,003
	MIL-L-11075	14,880	12,895	20,712	28,730	36,747	44,765	52,783
	MIL-L-1670	37,200	31,738	51,780	71,824	91,868	111,912	131,957
	MIL-L-1709	441,528	371,724	606,500	798,288	1,078,048	1,310,821	1,545,594
	MIL-L-40051	47,278	39,773	64,893	90,012	115,132	140,252	165,372
	MIL-L-40069	1,800	1,604	2,617	3,629	4,642	5,655	6,668
	MIL-P-15064	322,272	270,553	441,428	612,308	783,181	954,058	1,124,934
	MIL-R-1870	156,000	138,945	226,699	314,454	402,208	489,963	577,717
	MIL-R-17343	1,875,000	540,568	881,979	1,223,390	1,564,801	1,906,212	2,247,624
	MIL-R-24049	6,750,000	1,946,044	3,175,124	4,404,204	5,633,284	6,862,365	8,091,445
	MIL-R-30500	4,989,083	1,697,252	2,769,201	3,841,150	4,913,098	5,985,048	7,056,998
	MIL-S-43355	199,464	672,045	1,096,494	1,520,943	1,945,392	2,369,841	2,794,291
	MIL-S-6790	28,773	26,659	43,498	60,336	77,173	94,012	110,849
	MIL-T-40625	342,264	270,436	441,237	612,042	782,843	953,642	1,124,444
	T-C-571	611,340	530,415	865,416	1,200,414	1,535,414	1,870,414	2,205,412
	T-R-605	6,072	2,026	3,306	4,585	5,864	7,144	8,424
	T-R-616	3,860	151	246	341	436	531	627
	T-T-871	1,220,304	972,677	1,586,997	2,201,317	2,815,642	3,429,963	4,044,286
	T-T-881	22,643	17,671	28,832	39,993	51,154	62,317	73,476
	T-T-911	1,023,638	820,531	1,338,762	1,856,992	2,375,222	2,893,454	3,411,683
	V-F-108	154,200	38,741	63,209	87,677	112,145	136,612	161,080
	V-L-61	1,419,410	1,237,918	2,018,758	2,801,600	3,583,441	4,365,283	5,147,124
Z	**TOTAL	85,574,534	78,147,712	125,502,662	171,821,037	218,225,359	264,588,724	310,960,390

APPENDIX L

SPECIALTY ORGANIC FIBERS

Summary - High Performance Fibers

Fiber	Fiber Type	Tenacity (gm/denier)	Elongation at Break (percent)	LOI[a]	Moisture Regain (20°C, 65% RH)	Degradation Temperature (°C)	Remarks	Applications
Nomex	Aramid	5.8	15-22	27-28	7	370	Does not melt; self-extinguishing; dyeing problems; pilling problems; UV light sensitive; abrasion resistance similar to nylon 6/6 and polyester. Excellent electrical insulation.	Hot air filtration, fire resistant clothing (fire fighters, racing car drivers, munitions workers, petroleum workers) electrical insulation; aerospace.
Nomex III	95% Nomex 5% Kevlar	n.a.	n.a.	n.a.	n.a.	n.a.		
Nomex SP	50% Nomex 50% Kevlar							
Conex	Aramid	3.5-4.5	35-50		5-6	375-415		Hot air filtration, electrical insulation, protective clothing.
Durette	Modified aramid	2-4	17-20	35-38	4.1	895 = ignition	Resists shrinkage at high temperatures.	Hyperbaric chamber clothing; auto racing uniforms.
Kevlar	Aramid	19-22	4		5	450	Very strong fiber.	Rubber reinforcement, woven fabrics, cables, harnesses, plastics reinforcement.
Kevlar 29	Aramid	19-22	3-4		3.5		Very strong fiber.	
Kevlar 49			2.8				Very strong fiber.	
PBI	Polybenzimidizole	5	19-24	38-43	13	400	Light sensitive, excellent acid resistance.	Aerospace, woven goods (clothing), stack gas filtration, asbestos replacement product.
Polyimide 2080	Polyimide	n.a.	n.a.	44	n.a.	n.a.	Good acid resistance.	Stack filtration, aerospace, fire turn-out suits.
Kermel	Polyamideimide	2-4	10-20	n.a.	n.a.	350-400	Attacked by alkaline solutions; resists acids.	Fire resistant clothing.
Celiox	Cyclized, cross-linked Polyacrylonitrile	1.7	10	50	10	315	Less than average abrasion resistance. Converts to carbon fiber upon high temperature exposure.	Fire resistant clothing; filtration, heat shielding.
Kynol	Novoloid	1.5	35	29-30	6-7	2,500	Low strength and low abrasion resistance; good flame resistance and thermal stability.	Fire resistant clothing; electrical insulation, filtration.
PTFE	Fluorocarbon	1.6	19	795	0	371	Poor abrasion resistance, low strength, poor dyeability.	Filtration, packing.

a. LOI, Limiting Oxygen Index, is defined by ASTM 2863 as the lowest percentage of oxygen in an oxygen-nitrogen mixture required to just support combustion under specified conditions. A low LOI indicates high flammability. Since the oxygen content of air is 21%, a fiber with a markedly higher LOI will exhibit reasonable fire resistance. For example: untreated cotton has an LOI of 16-17 and flame-retardant treated cotton has an LOI of 31-32; spun nylon has an LOI of 20 and wool, 25.

APPENDIX M

MAN-MADE FIBER PRODUCERS (MMFPA MEMBERS)

	Acetate	Acrylic	Aramid	Metallic	Modacrylic	Nylon	Olefin (Polypropylene)	Polyester	Rayon	Saran	Spandex	Triacetate
Allied						F,S		F				
American Cyanamid		S,T										
American Enka						F,S		F,S	S			
Avtex	S							F	F,S			
Beaunit												
Celanese (Fibers Mktrg Co.) (M) = Mexico (C) = Canada	S,T,F	S,T(M)				F(M),S	F(C),S(C)	F,S,T	F(M),S(M)			F,S
Courtaulds (O.C.M.A)		S,T			X	F			S,T			F
Badische		S,Y				F,S						
DuPont		S,T	Y			Y,F,S,T		F,S,T			X	
Eastman	F				X			F,S				
Hercules							S,T					
Hoechst								F,S				
Monsanto		S,T,Y			X	F,S,T						
Phillips							F,S					
North American Rayon									F,T			
Amoco Fabrics												
* Fiber (X)			1	5	6					6	6	
* Staple (S)	5	13				19	13	26	14			2
* Tow (T)	7	10				8	6	15	3			2
* Yarn (Y)	8	8	1			2	3	3	1			
* Filament (F)	2					26	19	34	15			6

*Total number of domestic producers

APPENDIX N

DOMESTIC MAN-MADE FIBER CAPACITY
(MM Lbs)

	Rayon			Acetate			Nylon(1)		Polyester		Olefin(2)		Acrylic(3)	Textile Glass Fiber	Other(4)
	Yarn	Staple and Tow	Total	Yarn	Staple and Tow	Total	Yarn & Monofilament	Staple and Tow	Yarn & Monofilament	Staple and Tow	Yarn & Monofilament	Staple and Tow	Staple and Tow		Yarn & Monofilament
1975	100	725	825	384	28	412	1,871	773	1,852	1,961	672	125	824	909	16
1976	94	737	831	395	18	413	1,842	885	2,027	2,149	864	120	829	893	16
1977	85	690	775	371	8	379	1,885	959	2,126	2,390	878	114	869	940	16
1978	85	658	743	318	8	326	1,844	965	2,057	2,558	926	119	869	1,084	16
1979	75	671	746	326	8	334	2,030	1,030	2,084	2,637	908	136	855	1,220	20
1980	75	514	589	360	8	368	2,053	991	2,092	2,733	930	152	848	1,443	20
1981	63	514	657	323	8	331	1,976	930	2,014	2,769	933	234	830	1,440	20
1982	58	510	568	318	4	322	2,028	1,039	2,026	2,854	989	287	838	1,695	20

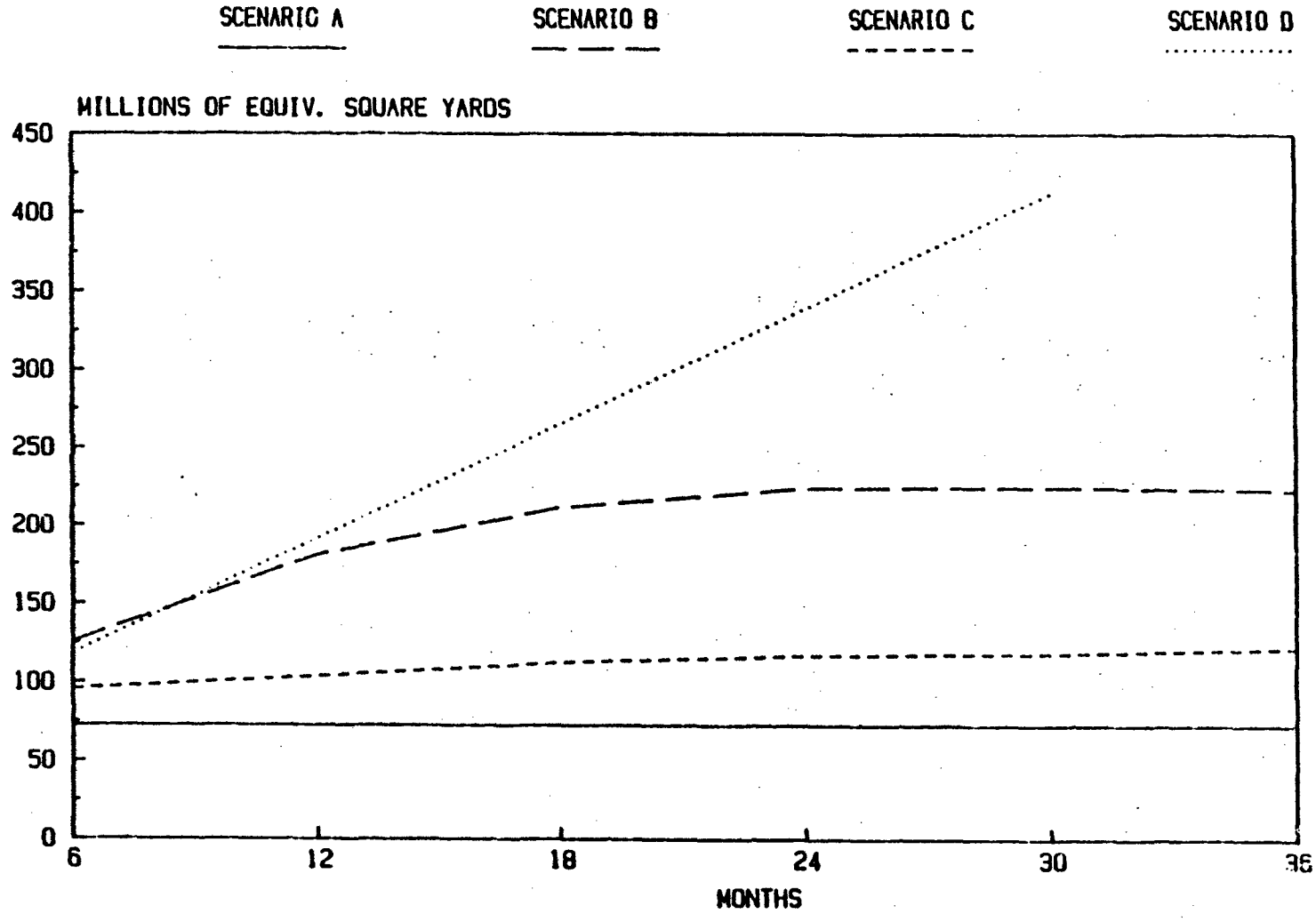
(1) Nylon includes Aramid.
(2) Olefin includes polyethelene, polypropylene and vinyon.
(3) Acrylic includes modacrylic.
(4) Other includes saran adn spandex.

APPENDIX O
U.S. MAN-MADE FIBER CAPACITY
(Millions of Pounds)

	FORECAST			
	Nov. 1982	May 1983	Nov. 1983	May 1984
RAYON				
Filament	58	58	58	58
Staple & Tow	510	510	510	510
Total	568	568	568	568
ACETATE				
Filament	318	318	318	318
Staple	4	4	4	4
Total	322	322	322	322
NYLON				
Textile Filament	536	537	539	523
Industrial Filament	528	533	538	546
Carpet Filament	933	950	955	960
Staple	987	1,037	1,055	1,062
Total	2,984	3,057	3,087	3,091
POLYESTER				
Textile Filament	1,265	1,274	1,274	1,274
Industrial Filament	337	340	343	345
Staple	2,832	2,852	2,877	2,877
Total	4,434	4,466	4,494	4,496
ACRYLIC				
Staple & Total	849	851	856	856
OLEFIN				
Yarn	226	232	235	235
Monofilament	369	373	378	378
Slit Film	460	470	470	480
Staple	274	274	274	274
Total	1,329	1,349	1,357	1,367
OTHER				
Saran Yarn	5	5	5	5
Spandex Yarn	25	25	25	25
Vinyon Staple	7	7	7	7
Total	37	37	37	37
TOTAL*				
Cellulosic	890	890	890	890
Noncellulosic	9,633	9,760	9,831	9,847
Total	10,523	10,650	10,721	10,737
* Excludes:				
Textile Glass	1,718	1,754	1,804	1,815

APPENDIX P

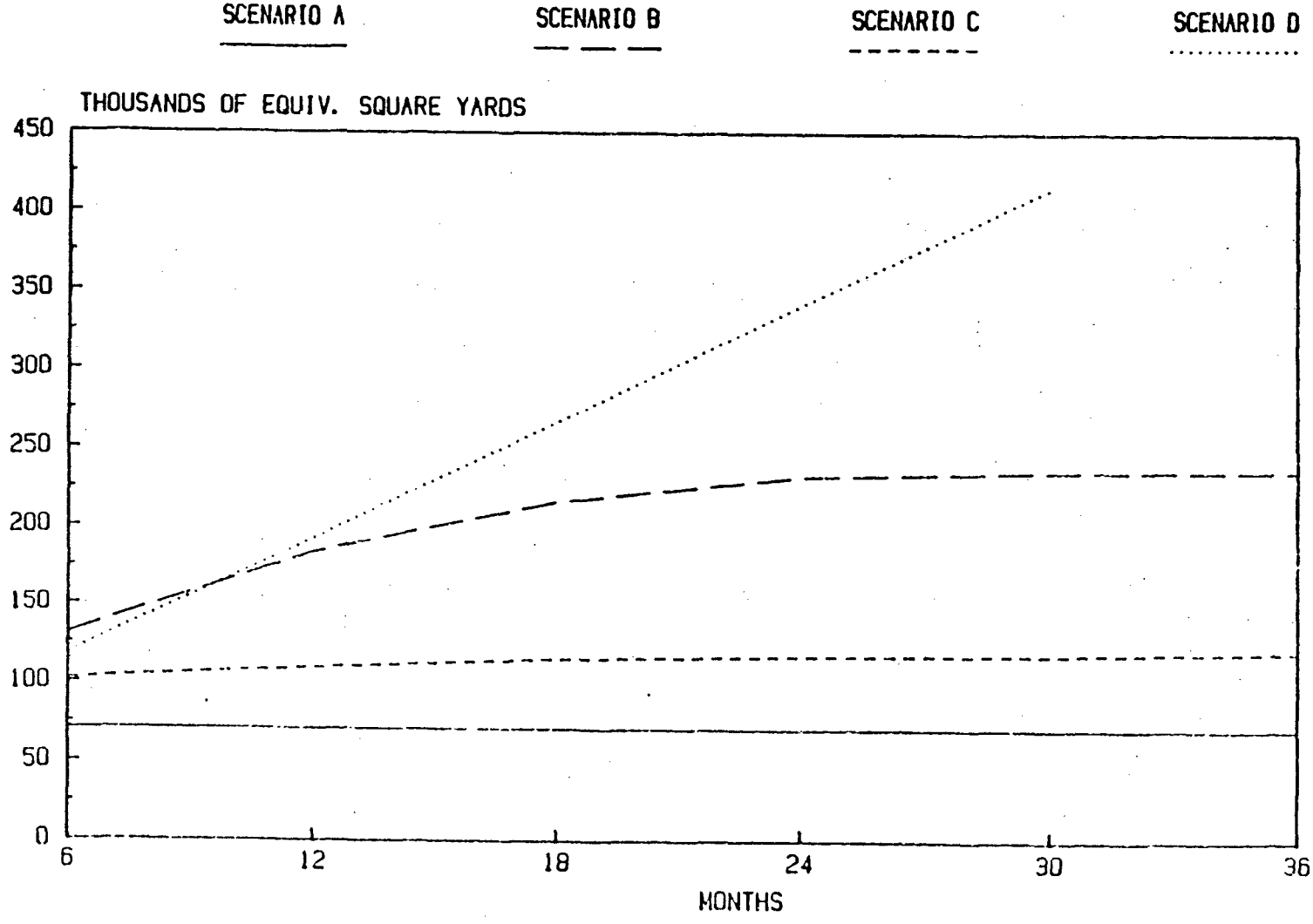
TEXTILE CATEGORY DEMANDS
BROADWOVEN BY SCENARIO



APPENDIX Q

TEXTILE CATEGORY DEMANDS

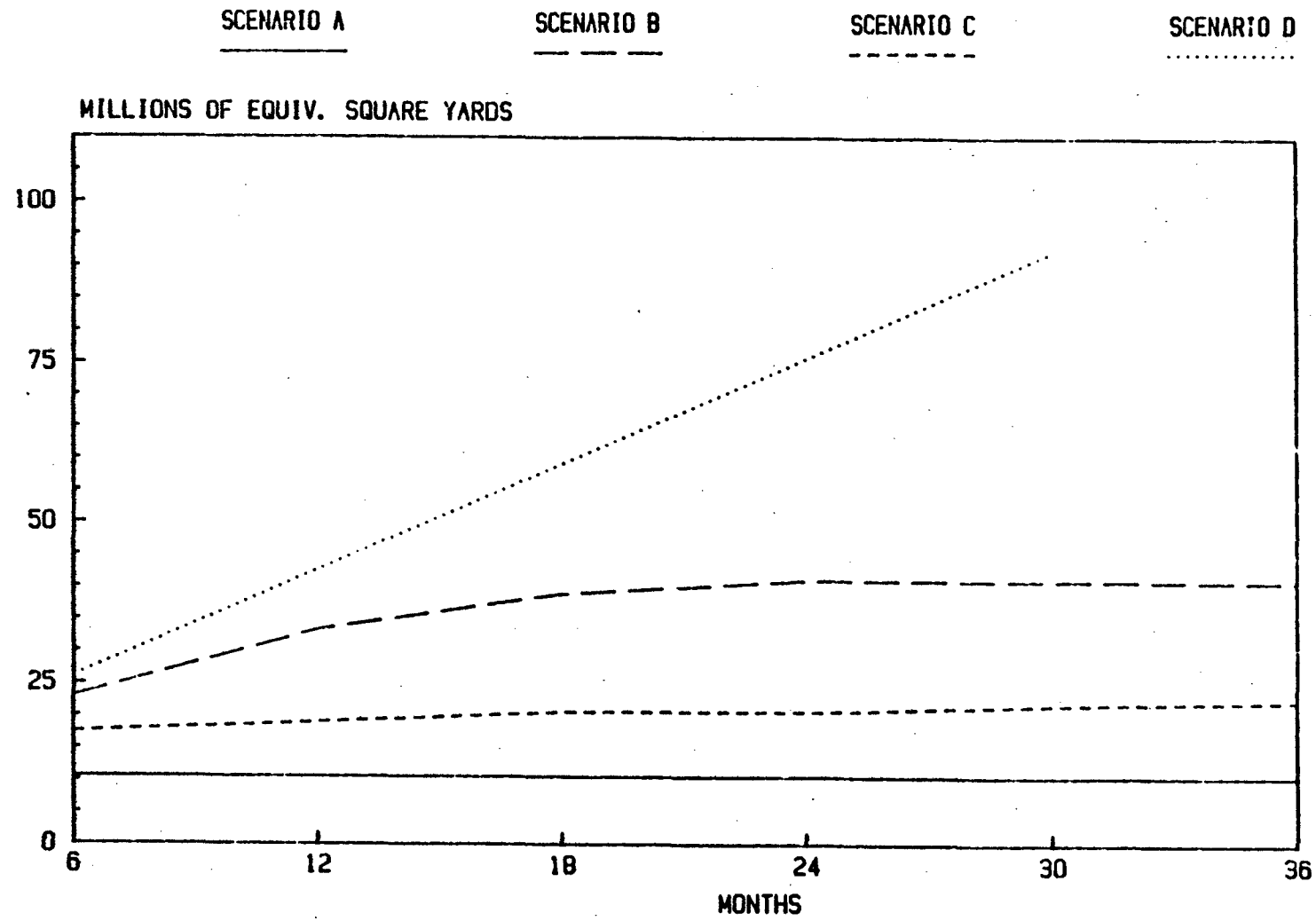
NON-WOVEN BY SCENARIO



APPENDIX R

TEXTILE CATEGORY DEMANDS

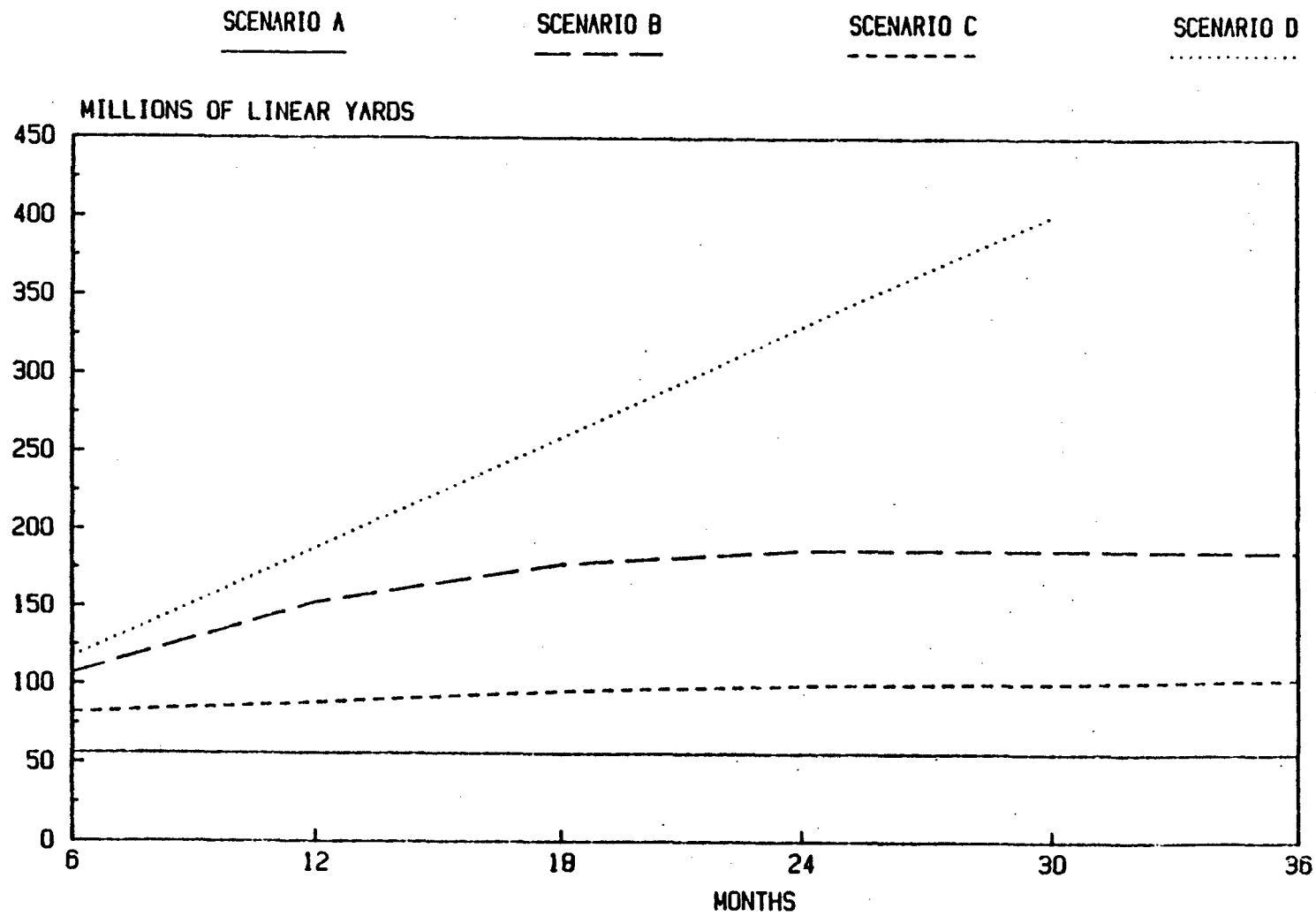
KNIT BY SCENARIO



APPENDIX S

TEXTILE CATEGORY DEMANDS

NARROW WOVEN BY SCENARIO



APPENDIX T

Classes of Broadwoven Textiles

Cotton Broadwoven Gray Goods

Duck and Allied Fabrics

Sheeting and Allied Coarse and Medium Yarn Fabrics
(except Bed Sheeting)

Bed Sheeting

Print Cloth Yarn Fabrics

(Carded yarns approximately 28's to 42's; threads per sq. in. 85 and above.)

Tobacco, Cheese, and Bandage Cloth
(Threads per sq. in. 84 and under)

Carded Colored Yarn Fabrics
(Denims, Chambrays, etc.)

Toweling, Washcloth, Dishcloth fabrics

Blanketing & Other Napped Fabrics

Fine Cotton Goods
- Combed
- Fine Carded

Other Woven Fabrics and Specialties
(Bedspreads, Drapery, Upholstery, Corduroys, Velveteens, Damasks, etc.)

Man-Made Fiber Broadwoven Gray Goods

100% Filament Yarn Fabrics

100% Spun Yarn Fabrics & Blends
(Chiefly Manmade Fibers by weight; except bed sheeting)

Bed Sheeting

Combinations & Mixtures of Filament and Spun Yarn Fabrics

Blanketing, Silk, Pope & other speciality fabrics

Wool Broadwoven Goods

Woolen Apparel Fabrics

Worsted Apparel Fabrics

Non-Apparel Fabrics

APPENDIX U

STANDARD INDUSTRY FABRICATIONS

Name of Fabric	Weave or Method of Fabrication	Characteristics: Distinguishing	Characteristics: Performance	Suitable End Use	Influences Garment Mfg.	Some Factors Influencing Cost
Broadcloth	Plain weave	Weight may vary from sheer dress fabrics to heavy coatings - cotton broadcloth has approx. twice as many warp as filling yarns giving fine rib appearance	Durable Versatile	Blouses Shirts Dresses Heavy coatings (wool)		Fiber content Weight Ply yarns Mercerization
Duck	Number and army ducks, plain weave ounce ducks 2/1 basket	Closely woven, heavy material - generally made of ply yarns in warp and yarns of various sizes and weights in filling	Most durable	Sports equipment Some sportswear, such as shoe uppers Work clothes, Industrial uses	Difficult to stitch several thickness together - thickness of fabric reduces no. of plies (layers) per spread	Weight
Gabardine	Twill weave	Warp faced steep (45° or 63°) twill of worsted, cotton and various blends Smooth, hard surface Appearance of single, diagonal lines on fabric face	Long wearing Tendency to shine	Men's and women's wear Sportswear Rainwear	Care in pressing due to tendency to shine Difficult to conceal construction in-accuracies and defects in flat, firmly woven fabric Uniformity of interior details (hems, seam allowances) more critical if imprinting on garment exterior	Weight Yarn twist Fiber content May be piece dyed (cheaper than stock or skein dyeing)
Muslin	Plain weave	Soft cotton fabric warp yarns ave. 30s, filling yarns 38s to 44s. Thread count approx. W-56 to 80 F-44 to 80	Versatile - can be bleached, printed, dyed, glazed, etc. for wide use	Blouses Summer dresses Underlinings Patternmaking	Should be pre-shrunk before cutting	Yarn quality Thread count

Name of Fabric	Weave or Method of Fabrication	Characteristics: Distinguishing	Characteristics: Performance	Suitable End Use	Influences Garment Mfg.	Some Factors Influencing Cost
Osnaburg	Plain weave	Coarse cotton cloth of medium to heavy weight. Characterized by uneven yarns which have bits of cellulosic waste. Should be described as P. W. (part waste) or Clean Most impurities bleached out and fabric resembles coarse yarn linen.	Depends on waste incorporated Washable	Suiting Sportswear Beachwear Pocketing	Waste in yarn may cause irregularities in fabric that would be objectionable on collars, lapels and other highly visible garment parts	Percent waste Yarn quality Compactness of weave
Poplin	Rib weave	Similar to a lightweight rep - heavy rounded filling produces light corded effect W-88 to 116. F-40 to 56. More pronounced rib filling effect than broadcloth.	Durable	Dress goods Sportswear Uniforms Rainwear if water repellent finish	Seam finishes needed to prevent ravelling	Fiber content Weight Yarn quality Carded or combed
Woolen	Any weave	Fabric of coarse and fine hair fibers in rather random arrangement in the yarns; characteristics are loose fiber ends and bulk; has lower thread count and cheaper than worsteds	Does not tailor well nor hold creases Gives good wear, tends to sag.	Women's suits Coats	Difficult to tailor well. Pressing difficult for pleats, creases and flat edges. Bulky especially where seams join. Requires underlining to reduce sagging	Shorter fibers than worsteds. Less yarn processing Loosely woven compared to worsted.
Worsted	Depends on fiber and spinning method smooth, lustrous high twist, any weave, normally plain weave	Fabrics of uniform, fine, long hair fibers in parallel arrangement in yarns; more expensive than woolens; lightweight, compact fabric.	Holds crease Gives better wear than woolens Strong	Tailored suits Coats Sportswear	Tailors well Difficult to conceal inaccuracies and defects in construction	Fiber quality Yarn quality Compactness of weave

APPENDIX V
SHUTTLELESS WEAVING MACHINES

FLEXIBLE-RAPIER MACHINES

Manufacturer	Nuovo Pignone Div. Smit Via E. Romagna 1, 36015 Schio, Italy	Nuovo Pignone Div. Smit Via E. Romagna 1 36015 Schio, Italy	Picanol Polenlaan 3 7 8900 Ieper, Belgium
U.S. representative	PTMI Box 3323 Spartanburg, S.C. 29304	PTMI Box 3323 Spartanburg, S.C. 29304	Picanol of America Box 5519 Greenville, S.C. 29606
Model	TP 300 Series	TP 400 Series	PGW
Width (in.)	75 161	79 165	64-111
Speed: Weft insertion (ypm) Picks/min.	561 300 (75-in. model)	724 (79 in. model) 330 (79 in. model)	— 240 (79 in. model)
Weft insertion method	Grippers and flexible rapiers guided into the shed	Guided flexible rapier with gripper system, tip-to-tip transfer	Flexible rapier driven by toothed belt amplifier system
Warp shedding method	Cams—12 harnesses, positive type, Staubli dobby—20 and 28 positive type, Staubli #2232 jacquard heads	Dobby, cam jacquard	Underneath cam (8), outside cam (12), dobby (20), jacquard
Color pattern selection	Weft—8 color selector, separate from dobby (warp)	Eight colors, pick and pick, mechanically driven, with own separate tape pattern	Up to eight colors controlled from dobby, or separate station on cam looms
Warp beam dia (in.)	31 5, 39 4	31 5, 39 4	28, 32, 38
Pick range (ppi)	5 08 227 3 (2 0 avail)	4 88 282 37 (1 8 avail)	7 450
Fabrics woven	Woolens, drapery, upholstery, blankets—normal and thermal, electric blanket shells, table cloth, denim, corduroy, industrials	Woolen blankets, acrylic, worsted apparel, fancy cotton shirting, blends, denim, twills	Apparel, home furnishings, heavy industrials, character yarn fabrics, linings, sheetings, denim, corduroy, ticking
Fibers, yarns woven	Kevlar, flax, mannades, cotton, silk, rayon, acetate, jute, hemp, polypropylene	Monofilament, 15 2 200 dTex, wool Nm 0 5 82, cotton, Ne 0 3 100	Cotton; blends of polyester, flax, rayon; all filaments including nylon, polyester, rayon, plied industrials
Approx cost ($ U.S.)	Depends on specs	Low to mid 40 000	25 000 (depends on specs)
Approx delivery (mo.)	Depends on specs	6 8	6
Other special features	Industrial and terry (TPS) looms available, low noise level—88 dBA, low maintenance and operating cost, tucked in, leno, hot knife selvages, low filling waste—[illegible]	Completely enclosed lubrication system; multipick weft insertion capability, 8 color weft selection, reduced warp space, doesn't require perfect yarns	Thermo tucked selvages, tucking in side and center, ultrasonic selvage cutter, pick finding device; independent batching motion (up to 60 in dia), electro mechanical warp stop motion

AIR-JET MACHINES

Manufacturer	Gunne GmbH & Co. D 4773 Mohnesee Gunne, West Germany	Gunne GmbH & Co. D 1772 Mohnesee Gunne West Germany	Investa Kodanska 46 Prague 10 Czechoslovakia
U.S. representative	Otex Inc Box 6081 Greenville, S.C. 29606	Otex Inc Box 6081 Greenville, S.C. 29606	Omintex 3301 Parkside Dr Charlotte, N.C. 28208
Model	Air Jet 2000	Air Jet Terry	Jettis 190
Width (in.)	48 111	48 111	75
Speed: Weft insertion (ypm) Picks/min.	To 1,420 To 630	To 1 040 To 370	1,040 500
Weft insertion method	Main nozzle and auxiliary nozzles	Main nozzle and auxiliary nozzles	Multijet confusor
Warp shedding method	Cam motion, dobby, jacquard	Cam motion, dobby, jacquard	Cam motion up to 8 harnesses
Color pattern selection	Single color weft insertion (multicolor weft insertion under development)	Single color weft insertion	Single color
Warp beam dia (in.)	To 36	To 36 (ground), To 48 (pile)	35 4
Pick range (ppi)	1 27 320 04	2 54 160 02	10 16 203 20
Fabrics woven	Lightweight to medium weight fabric (to 14 75 oz/sq yd)	All types terry	Fabrics to 12 5 oz/sq yd, plain, twill, sateen, corduroy
Fibers, yarns woven	Staple and filament	Staple fiber yarns	Cotton, polyester, rayon and their blends
Approx. cost ($ U.S.)	Depends on specs	Depends on specs	33 000
Approx. delivery (mo.)	6 7	6 7	2 4
Other special features	Air consumption ranges 20-45 cu m/hr. machine	Air consumption ranges 20-45 cu m/hr. machine, pile length ranges 0 7 mm	Horizontal warp, easy operation, high production, efficiency

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AIR-JET MACHINES

Investa Kodanska 46 Prague 10 Czechoslovakia	**Nissan Motor Co. Ltd.** 3 1 5 Chome Shimorenjaku Mitaka Tokyo Japan	**Picanol** Predenlaan 3 7 8900 Ieper Belgium	**Rüti Machine Works Ltd.** CH 8630 Rüti Switzerland
Omtatex 3301 Parkside Dr Charlotte N C 28208	Nissan Textile Machinery Box 21043 Charlotte N C 28224	Picanol of America Box 5519 Greenville S C 29606	Rüti Corp 2601 Westinghouse Blvd Charlotte N C 28217
P 110 130, 150, 170 N	1A22	PAT	1 5000
43 51 59, 67	59 1 66 9 74 8	75 94 5 110 130	55 130
According to width 460	1 050 500	1 090 1 335 350 520	1 000 (74 in model) 500
Single jet confusor	Single nozzle with closed type air guide	By air jet with combined use of main nozzle relay nozzles and channel separated from the reed	Compressed air
Cam motion up to 10 harnesses	4 or 8 harness plain weave with crank motion, 9 harness side mounted cam or 10 harness dobby	PAT E crank motion for plain weave for maximum 8 harnesses. PAT M outside cam motion to 12 harnesses. PAT R negative dobby to 16 harnesses	Czar crank dobby
One color	1 pick measuring system with single 1x1 or 2x2 insertion capability for filling mixing	Single color weft mixing or multicolor	Universal mixer 1x1, 2x1 2x2 3x1 and single filling insertion
31 5	31 5 or 38 37	32 39 38	28 36
12 7 190 50	12 131	3 5 450	5 6 220
Light and medium heavy fabrics, plain twill sateen	Printcloth, poplin, broadcloth, batiste, gabardine denim corduroy linings industrial fabrics	Light and mediumweight fabrics of spun and filament yarns up to 15 oz/sq yd in single color weft mixing or multicolor	Batiste broadcloth, shirting bottomweight, uniform twill, twill sheeting corduroy fulett sateen lining, impression fabric crepe
Cotton polyester, rayon and their blends, glass fiber, rayon and acetate filament	100% cotton blends 100% manmade spuns Bemberg acetate rayon, glass etc	Spuns Ne 6 80, filament 54 270 den	Spun yarns natural and manmade; filament yarns flat and textured
14 000 22 000	–	–	31 000 (74 in model)
3 12	6 8 (from Japan)	–	6 7
Inclined warp small floor space, low air consumption easy operation	Less energy requirements due to single nozzle closed air concept, conventional reed cuts inventory 1 pick measuring device offers 1x1 2x2 filling mixing, handles wide variety of fancy filling	Drum type measuring with thumb screw for fine adjustment of filling length air supply to main and relay nozzles electronically controlled through electromagnetic valves auto pick finding on cam dobby versions	Well suited for making apparel fabrics from smooth yarns at high efficiency

AIR-JET MACHINES

Manufacturer	**Adolph Saurer Ltd.** CH 9320 Arbon Switzerland	**Toyoda Auto Loom Works** 1 Toyodacho 2 Chome Kariya shi Aichi Japan 448	**Tsudakoma Corp.** No 18 18 5 Chome Nomachi, 921 91, Kanazawa Japan
U.S. representative	Saurer Corp Box 16179 Greenville S C 29606	Toyoda Textile Machy Inc Box 241047 Charlotte N C 28224	Tekmatex Inc Box 8604 Charlotte N C 28208
Model	Saurer 600	JA, JAII	ZA100, ZA200
Width (in.)	72 8	59 00 114 2 (four models)	59 142 (nine models)
Speed: **Weft insertion (rpm)** **Picks/min.**	1 210 600	– 350 550	1 570 600
Weft insertion method	Storage device measures exact pick length, main and sequential nozzles have microprocessor control	Main nozzle and sub nozzle with air guide	Main and sub nozzles with profile reed by open or drum type yarn storage device
Warp shedding method	Cam motion maximum 10 cams 6 pick repeat, negative dobby floor mounted maximum 16 harness frames	Crank up to 6 harnesses cam up to 10 harnesses dobby (floor or top mount) up to 16 harnesses	Plain shedding for 4 or 6 shafts dobby shedding of 16 shafts, cam shedding of 10 shafts
Color pattern selection	Single color or filling mixer	Filling mixer and 2 color selection by mid 1983	1 color, mixing 1 1 2 1
Warp beam dia (in.)	39 3	31 49 35 43	40
Pick range (ppi)	7 6 304	11 300	6 320 (0 5 increments)
Fabrics woven	Apparel industrial, table linen light medium medium heavy heavy weights	Plain twill satin corduroy dobby	Poplin denim crepe broadcloth sheeting corduroy taffeta glass surgical gauze
Fibers, yarns woven	Ne 5 60 spun blends 40 800 den filament	Ne 7 60 spun 50 300 den filament 6/75 1 to 1 225 1 0 glass fiber	Ne 6 80 staple fibers 30 600 den filament
Approx cost ($ U.S.)	35 000 40 000	–	–
Approx delivery (mo.)	10	6	6
Other special features	Leno or heat cut selvage, low air pressure system, automatic pick finder with automatic reset of takeup and letoff motions	Standard reed set mark preventer	Kick back device avoids stop marks, digitally set stop positions and feeler timing, visual display shows stop causes leno motion is special four thread system for durable, tighter selvages

FLEXIBLE-RAPIER MACHINES

Draper Corp. Box 18100 Greensboro, N.C. 27419	**Gunne GmbH & Co. KG** D 4773 Mohnesee-Gunne West Germany	**Macart Textiles Ltd.** 162-172 Thornton Rd Bradford, West Yorkshire BD1 2JG, United Kingdom	**James Mackie Ltd.** Belfast, N. Ireland
Draper Corp Box 5498 Spartanburg, S.C. 29304	Otex Inc Box 6081 Greenville, S.C. 29606	Frank G.W. McKittrick Co 63 Middlesex St N. Chelmsford, Mass. 01863	Tex America Inc 239 Iverson Way Charlotte, N.C. 28203
DLG 300	Flexible rapier	MBRL 450 S	ML 3 21
40-72	74-8-181-1	80-180	74-8-129-8
350-550 240-280	To 601 To 260	650 280	732 320
Flexible rapier gripper: reeded with size of loom plus 5 in. and/or size of loom minus 11 in.	Flexible rapier belts	Twin flexible ribbons carry two rapier heads for tip transfer at loom center, rapier guides on aley insure efficient weft transfer	Flexible rapier
Cam (6) harnesses plus separate tape selvage and separate leno, dobby, 16 harnesses (12 mm), 20 harnesses (10 mm) plus separate leno and tape selvage	Dobby, jacquard	Positive cam, dobby or jacquard harnesses are normally 12 mm pitch with 28 harness maximum dob by capacity, pushbutton reversing for pick finding	Cam, dobby
Four color dobby looms only, filling mix for cam and dobby looms	Single color and eight colors weft thread insertion	Weft presenter handles up to eight colors, unit control is by separate card in synchronization with shedding motion	To 8 colors
26, 28, 30, 32, 36	To 31-8	31-5	31-5
15-146, 3-75-292	0-78-27-8	6-5-200	10-60
Apparel, household and industrial drills, twills, sateen corduroy, print denims terry towels	Blankets and fabrics for technical purposes in heavyweight qualities	Suitings, coatings, shirtings, denims, blankets, bedcovers, travel rugs, sarees, shawls, furnishings, industrial fabrics	Wide fabric range includes woolen, worsted upholstery; cotton fabrics and canvas ranging from domestic to industrial
Cotton, cotton/polyester, textured polyester, Cordura, polyester and nylon flat filament	Cotton, wool, manmade fibers, blended yarns	Woolen, worsted, cotton, jute, linen, manmades in staple fiber yarns, blends, filaments and fancy yarns	Wool, cotton blends
24-000-30-000	Depends on specs	Depends on specs	—
6	6-7	6	—
Weft carrier coarse to medium yarns, fine yarns and flat filament (zero twist), package shield, vacuum system for filaments, dobby positive and/or negative pick finder for cam and dobby, central lube system	Off-loom fabric takeup for batches to 50 in. wide	Fringe-leno or tucked selvage, letoff, takeup, weft selection and shedding are reversible and synchronized when finding pick, setting scales for minimum downtime at warp change and reproducibility	Drive operates with a powergrip belt from the main shaft to a quadrant and pinion mechanism to a sector box

FLEXIBLE-RAPIER MACHINES

Rüti Machine Works Ltd. CH 8630 Rüti, Switzerland	**Adolph Saurer Ltd.** CH 9320 Arbon, Switzerland	**Vamatex SpA** Via Gleva 18/B 24020 Villa di Serio Italy	**Vamatex SpA** Via Gleva 18/B 24020 Villa di Serio Italy
Rüti Corp 2601 Westinghouse Blvd Charlotte, N.C. 28217	Saurer Corp Box 16179 Greenville, S.C. 29606	Ernest L. Frankl Corp Box 6939 Greenville, S.C. 29606	Ernest L. Frankl Corp Box 6939 Greenville, S.C. 29606
F 2001	Saurer 350	SP-151 Terry Loom	C/301
43-110	47-94 (steps of 4)	75-142	75-150
650 (74 in. model) 325	330-480 200-250	788-1 055 260-360	768-1 090 255-360
Gripper (right hand) carries to center of shed and transfers to left hand gripper	The yarn presented by the color selector is gripped in the tip of the LH rapier head, transported to shed center, transferred to RH rapier to selvage	Flexible rapiers with positive grippers	Flexible rapiers with positive grippers
Cam, dobby, jacquard	Tappet motion 14 mm pitch, maximum 10 cams plus 2 cams for leno catch ends, positively acting dobby, up to 25 jacks, 12 mm pitch, compact jacquard for chain or vertical shaft drive	Tappet motion, dobby, jacquard	Positive tappet system (up to 14 harnesses), dobby (up to 20 harnesses), jacquard or jacquard plus 6 harnesses, tappet motion for ground weave
Dobby, jacquard, separate pattern device	Single color, filling mix 2-6 colors, color selector is operated by dobby or separate control card for cam	—	Electronic 8 color selector
28, 30, 35	29-5	32	37
5-303	6-5-457	17-100	7-210
Plain, dobby and jacquard fabrics up to eight colors and eight yarn types	Apparel, industrial, homefurnishing, table linen, light, medium, medium heavy	Terry cloths and towels	Plain or fancy apparel, industrial, household
Spun yarns of natural fibers and manmade filaments—flat and textured, novelty, fancy and twists	Spuns, blends, filaments	Cotton and blends	Cotton, wool, filament and spun manmades and cellulosic fibers, blends, jute
—	—	30-000	25-000
7	8	4	4
Upholstery and industrial fabric novelties, a universal machine	Saurer 100 WT shuttle looms can be converted to Saurer 450	3 or 4 pick terry, all major components can be oil baths, pick finder, anti barré device, positively driven pile leno, cloth shifting, terry motion, pile height up to 1-1/4 in. (19 mm)	All major components run in oil baths, pick finder, anti barré device, precision warp letoff, pick density adjustable while loom is in operation, tucked selvages

RIGID-RAPIER MACHINES

Manufacturer	Lindauer Dornier GmbH D 8990 Lindau (B) West Germany	Jean Goeckes GmbH & Co. Postfach 110440 D 4060 Viersen Duelken West Germany	Jean Goeckes GmbH & Co. Postfach 110440 D 4060 Viersen Duelken, West Germany
U.S. representative	Batson Yarn & Fabrics Box 3978 Greenville S C 29608	Dolliger Corp Box 2949 Spartanburg S C 29304	Dolliger Corp Box 2949 Spartanburg S C 29304
Model	Various	SGM Floromat	GMV 90/J Velourmat
Width (in.)	59 157 (steps of 4)	55 71	51 65
Speed Weft insertion (rpm) Picks/min.	— 320 (75 in)	2x475 To 240 (double)	2x381 To 210 (double)
Weft insertion method	Rapier weaving machine with tip to tip weft transfer principle; central rapier clamp control system with individual adjustment of the control levers	Rigid rapiers Dewaes principle, tip to tip transfer in center of fabric weaving simultaneously two fabrics superimposed cut into two pile fabrics	Rigid rapiers Dewaes principle tip to tip transfer in center of fabric weaving simultaneously two fabrics superimposed cut into two pile fabrics
Warp shedding method	Positive dobbies for maximum of 28 jacks at 12 mm pitch 14 jacks at 18 mm pitch cam motion 12 and 18 mm pitch, jacquard heads fully reversible	By 3 position dobby or cam motion	Ground backing—dobby or cam motion, pile—jacquard 3 position lift such as gross JMDS-130 EX
Color pattern selection	Single color 1x1 weft mixing multicolor for maximum eight colors with direction selection from the dobby controlled by punch cards, multicolor for 8 14 colors with jacquard attachment	—	1x1 or 1x1 mixer or 2x4 colors
Warp beam (dia (in.)	39 4 (bottom top stands) attachment for 49 in dia	2x40 (pile) 2x32 (ground)	2x40 (ground) 2x32 (figure)
Pick range (ppi)	1 7 341	18 132	18 132
Fabrics woven	Silk gray and colored cotton goods woolens worsteds mattress tickings furnishing and upholstery fabrics	Viscose and rayon cotton velvets	100% cotton velvets velours plushes, jacquard patterns either 1 or 4 filling colors
Fibers, yarns woven	All types of yarn weft yarn count range extends from coarse fancy yarns to finest silk yarns	Cotton rayon PE	Cotton rayon acrylic, PE PP wool mohair nylon
Approx cost ($ U.S.)	--	62 000	116 000
Approx delivery (mo)	10 12	6	6
Other special features	Multiple pick insertion, fully reversible Maltese cross reamining motion for variable pick density outer and center tuck in units top and bottom warp letoff motions differential beam stands for upper lower beams	2 to 20 mm pile height between uncut fabrics	2 to 20 mm pile height between uncut fabrics

RIGID-RAPIER MACHINES

Jean Goeckes GmbH & Co. Postfach 110440 D 4060 Viersen Duelken West Germany	Gunne GmbH & Co. D 4773 Mohnsee Gunne West Germany	Orbit Weaving Mach. Ltd. Loughborough Leicestershire England (05091 68191)	Adolph Saurer Ltd. CH 9320 Arbon, Switzerland
Dolliger Corp Box 2949 Spartanburg S C 29304	Otex Inc Box 1081 Greenville S C 29606	Rothkopf Textile Machine 1804 Plaza Ave New Hyde Park N Y 11040	Saurer Corp Box 16179 Greenville S C 29606
GMV 90 Velourmat Plain	Rigid Rapier/Double Pile	112 Twin Head Machine	Saurer 500
51 69	47 2 90 6	42x2	2x72 8
2x520 270 (double)	787 To 260	4 900 2 500	1 200 300
Rigid rapiers, Dewaes principle tip to tip transfer in center of fabric simultaneously weaving two fabrics superimposed cut by knife motion	Rigid rapier rods	18 rigid rapiers operate on each side of a rotary cam system rapiers drive sequentially in one revolution rapiers traverse the warp pick up filling and retract	2 phase LH and RH fabrics offset 180 deg corresponding pick inserts from machine center to the outside selvages without transfer
By rotary dobbies either Staubli Model 2490 DE 92 or Zangs Model 440 D	Dobby, cam motion Jacquard machine	Twin rotary heads on each cam rail contain 18 shedding rollers made of plastic disks which have high and low profiles that automatically form sheds as the warp progresses	Cam motion, 14 cams 9 pick repeat
1x1 or 1x1 mixer or 2x4 colors	Single color weft insertion and 8 colors weft thread insertion 14 colors each for the upper and lower shedal	Individual color selection not available patterning can be formed by arranging the 18 filling packages to give a repeat within 18 picks	Single color filling mix
2x50	47 2	To 30	39 3
18 132	25 114	To 30	3 508
100% cotton velvets, velours plushes either plain or dobby patterns	All kinds of plush and velvet fabrics	All kinds of light constructions such as gauze scrims light industrials coating fabrics walkovrings interlinings	Apparel industrial light medium heavy
Cotton rayon acrylic polyester polypropylene wool mohair nylon	Cotton manmade fibers blended yarns	All natural and manmade fibers including cotton jute woolens glass	Spun blends filaments
79 000	Depends on specs	90 000	55 000 70 000
6	6 7	3 4	9
2 20 mm pile height between uncut fabrics continuous or programmed pile delivery motions		Works on a bi phase system which produces two fabrics simultaneously operating speeds are at least 10 times that of conventional looms weaves from beams but in gazine creel preferred weaves without sizing	Automatic pick finder with automatic reset of takeup and letoff motions

RIGID-RAPIER MACHINES

Manufacturer	Adolph Saurer Ltd. CH 9320 Arbon, Switzerland	Adolph Saurer Ltd. CH 9320 Arbon, Switzerland	Michel Van de Wiele M. Vandewielestraat 7-17 B 8510 Kortrijk Marke, Belgium
U.S. representative	Saurer Corp Box 16179 Greenville, S.C. 29606	Saurer Corp Box 16179 Greenville, S.C. 29606	Batson Yarn & Fabrics Box 3978 Greenville, S.C. 29606
Model	Saurer 400	Terrymatic 400	ALD62 400
Width (in.)	72.8-88.6	72.8-104.3	162
Speed: Weft insertion (rpm)	660-690	650-675	600
Picks/min.	280-325	230-320	60-65
Weft insertion method	The yarn presented by the color selector is gripped at the tip on the RH side and transported to the center; transfers to LH rapier which draws the filling out of the shed	Rapier operation is similar to Saurer 400 with yarn coming either directly from the package or from a pre-delivery device	Dewees principle: insertion with tip transfer in the center, with double divided rigid stationary rapiers
Warp shedding method	Cam motion, 8 cams maximum, 6 pick repeat, positive dobby, maximum 24 harness frames, jacquard	Cam motion, 8 cams maximum, 4-6 pick repeat, positive dobby, maximum 16 harness frames, jacquard with cam or dobby combination	With grooved disk cams one, rack pinion system, maximum capacity 8 cams
Color pattern selection	Single color filling mix, 2-8 colors (in connection with dobby or jacquard only)	Single color or 4 colors in combination with dobby or jacquard	none
Warp beam dia (in.)	39.3	29.3 (pile) 31.5 (ground)	39 for 4 divided beams in vertical disposition
Pick range (ppi)	7.8-304	6-300	14-61
Fabrics woven	Apparel, industrial, homefurnishing, table linen, light, medium, medium heavy, heavy	All terry fabrics	Persian like rugs using double shuttle weaving technique
Fibers, yarns woven	Spun blends Ne 0.5-120; filament 40-1,800 den	Spun blends Ne 0.5-120	Pile warps mainly wool, also acrylics and spun polypropylene; backing is cotton or blends, filling jute or PP
Approx cost ($ U.S.)	25,000-45,000	55,000-62,000	–
Approx delivery (mo.)	8	8	–
Other special features	Leno, heat cut or tucked selvage; rapier does not touch the warp or reed; automatic pick finder with automatic reset of takeup motion	Leno or tucked selvages; loop formation elevated takeup rolls covered with fine steel needles is continuously rotated relative to pick density by the positively acting takeup motion	Provisions for weaving extra short pile heights for walk-weaving; unit is available that eliminates every third pick for special structures; also available for weaving plain carpet

RIGID-RAPIER PROJECTILE MACHINES

Michel Van de Wiele B 8510 Kortrijk Marke, Belgium	Michel Van de Wiele B 8510 Kortrijk Marke Belgium	Sulzer Bros. Ltd. 8401 Winterthur Switzerland	Sulzer Bros. Ltd. Winterthur and Kings Mountain Plant Grover, N.C.
Batson Yarn & Fabrics Box 3978 Greenville, S.C. 29606	Batson Yarn & Fabrics Box 3978 Greenville, S.C. 29606	Sulzer Bros. Inc Box 5332 Spartanburg, S.C. 29304	Sulzer Bros. Inc Box 5332 Spartanburg, S.C. 29304
MPS32 180	MPS22 180	PU	PS 3600 ES 110 F 6 DI
69	69	85-213	141.7
2x350 200	2x455 260	To 1,055 To 370	1,260 320
Dewees Principle: insertion with tip transfer in the center with divided rigid stationary rapiers	Dewees principle: insertion with tip transfer in the center with divided rigid stationary rapiers	By means of gripper projectiles (number of projectiles depends on machine width)	By means of gripper projectiles
Pile—3 position open shed jacquard head; backing—2 position semi-shed or 2 position jacquard heads	By 3 position rotary dobby with pick finding device, standard 4 pile and 8 backing harnesses	By means of tappet motion (cams) with 10 or 14 harness drives (pattern repeat up to 8 picks); by means of dobby for 18 harnesses and jacquard	By means of tappet motion with weave repeat up to 6 picks for a maximum of 6 shafts
For pile, jacquard machine	Optional available for 2x5 filling selector	1 color filling mixer 2-4-8 colors by means of dobby, jacquard machine, special punched card unit	Single color
39 (backing)	49 (pile) 39 (backing)	31.5-37	31.5-37, 39.37
13-138	13-138	21-460.1	25.4-152.4
Jacquard velvets and plushes for upholstery industry	Plain velvet and plushes for upholstery and confection industries	Cotton (including terry) wool, cellulosics—spun and filament, spun and filament mixed fiber, jute, glass fiber, metallic in different weaves	Standard articles in spun fiber yarns and filaments to be woven with 6 harness frames
Spun viscose, acrylics as pile warps, cotton, cotton polynosic or polyester blends as backing warps	Acrylics, cotton, spun viscose, nylon, polypropylene, polyester as pile warp, cotton blends—backing	Practically any kind of textile raw material in yarn count range of 2,000 Tex to 12 dtex including PP ribbon	166 Tex and finer
–	–	–	–
–	–	9-12	9-12
Filling selector for 2x5 weft, pile height control with gages or warpwise extending wires, possibility to set up with reflect warp	Filling selector for 2x8 blocks of weft, automatic pick finding operation on filling stop, brake clutch combination in loom drive to minimize starting marks	Intermediate finishing units allow multi-width weaving with all firm tucked in selvages, full cross leno selvages, inclined selvages, no yarn waste, low energy costs and spare parts requirements, accurate repeat	Produced in U.S., multi-width possible with firm tucked in or leno selvage, electronically controlled machine with display panel showing stop causes, speed, main shaft angle and projectile arrival

WATER-JET MACHINES

Manufacturer	**Meteor SpA** Via Al Serio, Comenduno Albino Italy 24021	**Nissan Motor Co. Ltd.** 3 1 5 Chome Shimurenjaku, Mitaka Tokyo Japan	**Tsudakoma Corp.** No 18 18 5 Chome, Nomachi 921 91, Kanazawa Japan
U.S. representative	—	Nissan Textile Mach. Box 240803 Charlotte N C 28224	Tekmatex Inc Box 8604 Charlotte N C 29208
Model	JH 100	LW52	ZW100 ZW200
Width (in.)	68, 74, 90	59 1 8' 7	59 91
Speed: **Weft insertion (ypm)** **Picks/min.**	1 227 To 650	1,400 600	1 610 800
Weft insertion method	Filling yarn is predetermined by a measuring drum and is then propelled by water through an anular nozzle across the shed	Water jet with exclusive 1 pick measuring device	Water jet system with ring nozzle and plunger pump storing device with rotary drum air flow from a blower
Warp shedding method	Cams (enclosed in an oil bath), crank conventional dobby	4 harness plain weave; 4 harness double shaft plain weave, 6 harness plain weave (all with crank motion); 16 harness dobby	Plain shedding for 4 or 6 dobby shedding of 16 shafts
Color pattern selection	Not available	1 pick measuring system with 1x1 or 2x2 filling mixing	1 color mixing 1 1 2 2
Warp beam dia (in.)	32	31 5 39 37	40
Pick range (ppi)	18 142	—	12 153 (0 5 incr)
Fabrics woven	Light to medium heavy fabrics	Nylon lining sportswear, curtain and umbrella cloth polyester blouse fabrics acetate linings and curtain fabric etc	Manmade taffeta, textured fabric, crepe
Fibers, yarns woven	Warp yarns include filament polyester nylon, polypropylene, acetate viscose rayon glass filling filaments spuns	Filament warp and filling and filament warp spun filling filaments — 30 1 000 den selected spun counts	Filament 30 840 den high twisted yarn up to 76 tpi
Approx cost ($ U.S.)	Depends on specs	—	—
Approx delivery (mo.)	6	6 8	6
Other special features	Electric letoff for precise warp tension control high velocity water jet has anti wear device cam shedding motion enclosed in oil bath, electronic photocell filling yarn detectors	Has operated at 1 200 under lab conditions exclusive 1 pick device for measuring single yarn 1x1 or 2x2 insertion offers many advantages	Rotary drum system provides smooth filling feed minimum kinky filling mixing device system produces crepe fabrics of 1x1 or 2x2 repeats

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APPENDIX W

FINISHING METHODS

Finishes Primarily For Hand and/or Appearance

Crepeing
Fulling
Mercerizing
Lustering
Delustering
Weighting and filling
Crabbing
Decating
Calendering
Stiffening
Softening

Finishes Primarily For Utility

Dimensional Stabilization

Shrink Resistance
Wrinkle and Crease Resistance
Wash-Wear, Durable Press

Protective Types

Water Repellency
Fire Resistance
Mildew and Rot-Resistance
th-Proofing
Anti-Static
Anti-Fume
Germicidal
Fabric Coating
Fabric Laminating
Multipurpose (e.g. FWWMR)

APPENDIX X

1982 DAVISON'S BLUE BOOK

Category	Total U.S. Facilities
Bleachers of:	
Cotton	91
Knit Goods	23
Man-Made Fabrics	85
Raw Stock	6
Wool or Worsted	8
Yarns	47
Dyers of:	
Carpet	21
Cotton	116
Hosiery	34
Knit Goods	66
Man-Made Fabrics	174
Raw Stock	22
Silk	8
Wool or Worsted	26
Yarns	90

1982 DAVISON'S BLUE BOOK

Category	Total U.S. Facilities
Printers of:	
Broad Fabrics	24
Cotton	57
Knit Goods	28
Man-Made Fabrics	75
Narrow Fabrics	10
Rotary Screen	10
Silk	7
Wool or Worsted	7
Finishers of:	
Blends	68
Carpet	17
Cotton	129
Hosiery	41
Knit Goods	72
Man-Made Fabrics	168
Silk	10
Wool or Worsted	17

1982 DAVISON'S BLUE BOOK

Category	Total U.S. Facilities
Bonding	31
Coating of Fabrics	83
Decating	23
Flameproofing	54
Flame Repelling	36
Jet Dyeing	12
Laminating	67
Mercerizing	23
Mildew Proofing	11
Package Dyeing	51
Rubberizing	15
Scouring	62
Screen Printing	92
Solvent Finishing	14
Sponging or Shrinking	36
Waterproofing	50
Water Repelling	44

1982 DAVISON'S BLUE BOOK

CLASSIFIED DIRECTORY

MILLS

Type	Total in U.S.
Yarn, Blends	112
Yarn, Cotton Carded	97
Yarn, Cotton Combed	61
Yarn, Elastic	18
Yarn, Knitting	72
Yarn, Man-Made and Yarn Producers	90
Yarn, Man-Made Spinners, Winders, Twisters	175
Yarn, Mercerized	7
Yarn, Merino	3
Yarn, Open End System	25
Yarn, Roving	5
Yarn, Spun Man-Made Fiber	94
Yarn, Stretch	18
Yarn, Texturized	73
Yarn, Thrown	41
Yarn, Warps	9
Yarn, Weaving	48
Yarn, Wool	62
Yarn, Worsted	28

1982 DAVISON'S BLUE BOOK

CLASSIFIED DIRECTORY

MILLS

Type	Total in U.S.
Blankets, Wool	29
Blended Fabrics	66
Braids and Trimmings, Cotton	71
Braid, Elastic	20
Braids and Trimmings, Synthetic	72
Broad Fabrics, Man-Made	68
Broadcloths	36
Buckrams	6
Burlaps	6
Carded Cotton	12
Carding, Wool	17
Combing, Worsted	7
Cordage and Rope, Natural Fibers	70
Cordage and Rope, Man-Made Fibers	61
Denims	29
Dobby Goods	11
Ducks	32
Elastic Braids	45
Elastic Webbing	41
Elastic Goods, Woven	24

1982 DAVISON'S BLUE BOOK

CLASSIFIED DIRECTORY

MILLS

Type	Total in U.S.
Fabric - Cotton Broad	6
Fabric - Man-Made	59
Fabric - Woolen	7
Grey Goods - Cotton	36
Grey Goods - Man-Made	42
Industrial Fabrics - Woven	99
Interlinings - Cotton	5
Interlinings - Man-Made	17
Men's Wear - Woolen	33
Men's Wear - Worsted	18
Narrow Fabrics	89
Nonwoven Fabrics - Cotton	30
Nonwoven Fabrics - Wool	18
Nonwoven Fabrics - Man-Made	106
Tapes	95
Thread	92
Twines, Cotton, Linen	35
Webbing	67
Winding, Coning, Spooling, Twist	60
Women's Wear - Woolen	41
Women's Wear - Worsted	16

APPENDIX Y
GENERAL APPAREL CATEGORIES

Category	Description	# Study Items
1	Shirts - Single Needle	11
2	- Double Needle	6
3	Skirts	5
4	Trousers - Single Needle	6
5	- Double Needle	12
6	Underwear - Knit Shirts	5
7	- Knit Bottoms	4
8	- Woven Shorts	1
9	Outerwear - Parkas	18
10	- Liners	9
11	Work CLothing	12
12	Knit Socks	3
13	Headwear	17
14	Gloves	19
15	Narrow Fabrics	15
16	Special Military Products	40
17	Miscellaneous Items	12
18	Tents	15
19	Mattresses	1
20	Pillows	1
21	Blankets	1
22	Tailored Coats/Jackets	9
23	Accessories	7
24	Sheets	1
25	Towels	1

Category 1

Shirts - Single Needle

Study Items:

Spec.	Description
MIL-J-43990(GL)	Jacket, Woman's, Summer, Warp Knit (Short Sleeve)
MIL-J-44020(GL)	Jacket, Woman's, Summer, Warp Knit (Long Sleeve)
MIL-J-87035A(NU)	Jumper, Man's, (Blue, Dress)
MIL-J-87037A(NU)	Jumper, Man's, White
MIL-S-19984C(MC)	Shirt, Man's, Khaki; with Quarter Length Sleeve
MIL-S-29149A(SA)	Shirt, Man's, Poly and Rayon
MIL-S-29368A(MC)	Shirts, Women's, Poly/Ctn, Long Short Sleeves
MIL-S-43505C(GL)	Shirt, Woman's, Poly/Ctn
MIL-S-44041(G)	Shirt, Man's, Short Sleeve, Poly/Ctn, Army Green
MIL-S-87016(SA)	Shirt, Man's, Poly/Ctn, Short Sleeve
MIL-S-87027	Shirt, Men's, Poly/Ctn

Category 2

Shirts - Double Needle

Study Items:

Spec.	Description
MIL-C-43199f	Coats, Hot Weather, Men's, Combat
MIL-C-44048(GL)	Coat, Combat, Woodland Camouflage Pattern
MIL-J-82293B(SA)	Jacket, Utility, Dark Blue
MIL-S-10858G	Shirt, Cold Weather, Field, Wool/Nylon, Olive Green 108
MIL-S-43502A	Shirt, Woman's, Wool, Field
LP/PDES19-73C	Coat, Camouflage Pattern, Desert

Category 3

Skirts

Study Items:

Spec.	Description
MIL-S-21087E(MC)	Skirts, Women's, Wool
MIL-S-28997A(MC)	Skirts, Women's, Poly/Wool, Green
MIL-S-40128E(GL)	Skirts, Women's, Wool and Poly/Wool
MIL-S-43488B(GL)	Skirt, Woman's, Wool, Field
MIL-S-43996(GL)	Skirt, Woman's, Summer, Warp Knit

Category 4

Trousers - Single Needle

Study Items:

Spec.	Description
MIL-S-29364(MC)	Slacks, Women's
MIL-S-43985(GL)	Slacks, Women's, Gabardine, Army Green 344
MIL-T-29369(MC)	Trousers, Men's, Wool and Poly/Wool
MIL-T-41834F	Trousers, Men's, Poly/Ctn
MIL-T-87038A(NU)	Trousers, Men's (Blue Enlisted)
MIL-T-87067(NU)	Trousers, Men's (Blue Enlisted, Blue and White)

Category 5

Trousers - Double Needle

Study Items:

Spec.	Description
MIL-S-43526B	Slacks, Utility, Women's, Wool, Field
MIL-T-1870H(GL)	Trousers, Cold Weather, Men's, Field, Wool, M-1951
MIL-T-6284K	Trousers, Extreme Cold Weather, Type F-1B
MIL-T-21704D(SA)	Trousers, Cold Weather, Permeable
MIL-T-21705D(SA)	Trousers, Extreme Cold Weather, Impermeable
MIL-T-43217F	Trousers, Hot Weather, Men's, Combat
MIL-T-43497B	Trousers, Cold Weather, Field, Nylon and Ctn
MIL-T-43654B	Trousers, Snow Camouflage, White, Arctic
MIL-T-44047(GL)	Trousers, Combat, Woodland Camouflage Pattern
MIL-T-83385	Trousers, Flyers, Extreme Cold Weather, CWU-18/P
LP/PDES 10-74A	Trousers, Night Camouflage, Desert
LP/PDES 20-73C	Trousers, Camouflage Pattern, Desert

Category 6

Underwear - Knit Shirts

Study Items:

Spec.	Description
MIL-S-43357C	Shirt, Sleeping, Heat Retentive and Moist, Resistant
MIL-T-43984(GL)	Tunic, Woman's, Rib Knit
MIL-U-17611F	Undershirt, Extreme Cold Weather
MIL-U-43262B	Undershirt, Cold Weather, Men's
JJ-U-413D	Undershirt, Man's, (Quarter-Sleeve)

Category 7

Underwear - Knit Bottoms

Study Items:

Spec.	Description
MIL-D-15390K	Drawers, Extreme Cold Weather
MIL-D-2525D(MC)	Drawers, Men's, Ctn, Ankle Length
MIL-D-43261B	Drawers, Cold Weather
MIL-D-43783C	Drawers, Men's (Brief Type)

Category 8

Underwear - Woven Shorts

Study Items:

Spec.	Description
MIL-D-40099F	Drawers, Men's, Boxer Style

Category 9

Outerwear - Parkas

Study Items:

Spec.	Description
MIL-C-17889D(MC)	Coat, Shooters: Ctn, Sateen, Green
MIL-C-43455E	Coat, Cold Weather, Field
MIL-C-43507A(GL)	Coat, Woman's, Wool, Field
MIL-C-43972A(GL)	Coat, All-Weather, Woman's, Black with Removable Liner
MIL-C-44030(GL)	Coat, All-Weather, Man's, Black with Removable Liner
MIL-J-43923A(GL)	Jacket, Flyers, Lightweight Wrists and Waist

Category 9 (Continued)

Outerwear - Parkas

Study Items:

Spec.	Description
MIL-J-21708E	Jacket, Cold Weather, Permeable
MIL-J-43924B(GL)	Jacket, Cold Weather, (High Temp Resis.)
MIL-J-82299B(NU)	Jacket, Extreme Cold Weather, Impermeable
MIL-J-83382B(USAF)	Jacket, Flyers, Men's, Summer, Fire Resistant
MIL-J-83388B	Jacket, Flyer, Cold Weather
MIL-O-82250C(SA)	Overcoat, Man's, Enlisted
MIL-O-2414F(NU)	Overcoat, Man's, Enlisted
MIL-P-6279J	Parka, Extreme Cold Weather, Type N-3B
MIL-P-10809E	Parka, Snow Camouflage
MIL-P-43496C	Parka, Extreme Cold Weather
MIL-R-82290C(NU)	Raincoat, Man's (Enlisted)
MIL-P-82277C	Parka, Wet-Weather
LP/P DES 25-73A	Parka, Night Camouflage, Desert

Category 10

Outerwear - Liners

Study Items:

Spec.	Description
MIL-L-41800	Liner, Groundtroop's - Parachutist's Helmet
MIL-L-43335C	Liner, Wet Weather, Poncho
MIL-L-43466C	Liner, Extreme Cold Weather, Parka
MIL-L-43498B	Liner, Cold Weather Trousers, Field
MIL-L-43536D	Liner, Cold Weather Coat
MIL-L-43672B	Liner, Snow Camouflage Trousers: White, Arctic, M-65
MIL-L-43720A(GL)	Liner, Rucksack
LP/P DES 14-73A	Liner, Night Camouflage, Parka, Desert
LP/P DES 12-79	Liner, Combat Vehicle Crewmen's Coverall

Category 11

Work Clothing

Study Items:

Spec.	Description
MIL-A-41829C	Apron, Utility, Rubber Coated Fabric (Gen Pur)
MIL-C-83141A	Coveralls, Flyers, Men's, Summer, Fire-Resistant
MIL-C-22-2F	Coveralls, Men's, Ctn, Sateen
MIL-C-15096H	Coat, Food Handlers
MIL-C-14610E	Coveralls, Explosives Handlers
MIL-C-38488A	Coverall, Flying, Anti-Exposure, Quick Donning CWU-16/P
MIL-C-41833B(GL)	Coverall, Mechanics, Cold Weather
MIL-C-83141A	Coveralls, Flyers, Men's, Summer, Fire-Resistant
MIL-C-83195	Coveralls, Flyers, Anti-Exposure CWU-21/P
MIL-C-43907A	Parka and Trousers, Wet Weather
LP/P DES 14-78	Coveralls, Combat Vehicle Crewmen's
LP/P DES 15-80	Overalls, Combat Vehicle Crewmen's

Category 12

Knit Socks

Study Items:

Spec.	Description
MIL-S-48J	Socks, Men's, Wool, Cushion Sole, Stretch Type
MIL-S-504F	Socks, Men's Winter (Wool and Ctn)
MIL-S-12549G	Socks, Men's, Nyl and Ctn, Ribbed, Stretch Type

Category 13

Headwear

Study Items:

Spec.	Description
MIL-B-83268A	Berets, Women's, Fur Felt
MIL-C-1911G(GL)	Cap, Combat, Woodland Camouflage Pattern
MIL-C-16472F	Cap, Knit (Watch)
MIL-C-17614E(NU)	Cap, Garrison, Man's
MIL-C-21181C(MC)	Cap, Garrison, Man's: Wool, Serge, Green
MIL-C-21709D(SA)	Cap, Cold Weather, Permeable
MIL-C-29136(SA)	Cap, Food Handlers
MIL-C-29366A(MC)	Cap, Utility Camouflage
MIL-C-29373A(MC)	Cap, Garrison, Women's
MIL-C-43419B(GL)	Cap, Garrison, Poly/Wool, Tropical, Army Green 344
MIL-C-43549A	Cap, Cold Weather, Insulating, Helmet Liner
MIL-C-87071(NU)	Cap, Utility, Blue
MIL-H-43577C	Hats, Sun, Hot, Weather
MIL-H-87041(SA)	Hat, Service (White)
MIL-H-3364D	Helmet, Sun
MIL-H-19448B	Hat, Service: With Chin Strap
LP/P DES 40-71B	Hat, Camouflage Pattern, Desert

Category 14

Gloves

Study Items:

Spec.	Description
MIL-G-43976A	Glove Set, Chemical Protective
MIL-G-822J	Glove Shells, Leather
MIL-G-835F	Glove Inserts, Wool-Nyl, M-1949

Category 14 (Continued)

Gloves

Study Items:

Spec.	Description
MIL-G-2366F	Gloves, Leather, Heavy, M-1950
MIL-G-3866E	Gloves, Men's, Cloth, Ctn, Knitted, Lightweight
MIL-G-17602D(SA)	Gloves, Leather, Black (Wool Liner)
MIL-G-21893C(NU)	Gloves, Cloth, Nyl, Knitted, (Dress)
MIL-G-38227A	Glove, Shells Flyers
MIL-G-41817C	Gloves, Cloth, Men's (Dress), White
MIL-G-43755H	Gloves, Leahter, Lined, Black, Woman's
MIL-G-43976A	Glove Set, Chemical Protective
MIL-G-81188B	Gloves, Flyers, Summer, Type GS/FRP-2
MIL-M-809D	Mitten-Inserts, Trigger Finger, OG-208
MIL-M-810G	Mitten Shells Cold Weather (Trigger Finger M-1965)
MIL-M-834J	Mitten Set, Extreme Cold Weather
MIL-M-2418F	Mitten Shells, Snow Camouflage, Ctn, White, Two Fing.
MIL-M-11199F	Mitten, Heat Protective
LP/P DES 13-78	Gloves, Combat Vehicle Crewman's, Summer
LP/P DES 9-79	Gloves, Combat Vehicle Crewman's, Cold Weather

Category 15

Narrow Fabrics

Study Items:

Spec.	Description
MIL-B-43826A	Belt, Individual Equipment, LC-2
MIL-B-530	Belt, Trousers, Ctn Webbing, With Clip
MIL-B-833F	Belt, Trousers, Ctn Webbing, With Clip
MIL-B-1851F	Band, Helmet

Category 15 (Continued)

Narrow Fabric

Study Items:

Spec.	Description
MIL-B-21154B(MC)	Belts, MP: Ctn Webbing; White
MIL-C-17864C(MC)	Carrier, Pistol Holster; Ctn Duck, White: MP
MIL-H-3697C	Harness, Man's, Sled, Single Trace Type
MIL-H-41802D	Headband and Neckband, Ground Troops-Para, Helmet Liner
MIL-P-43304C	Pack and Harness Assembly, Parachutist's Weapons
MIL-R-43323D	Rifle Butt Pocket and Strap Assembly
MIL-S-1698F	Slings, Bag and Case Carrying
MIL-S-10926F	Suspenders, Trousers, M-1950
MIL-S-21042(MC)	Sling, Flagstaff: Leather, Brass Socket
MIL-S-43013C	Sling, Universal, Individual Load Carrying
MIL-S-43828	Strap, Webbing, Cargo Tie Down, Lightweight Pack Frame
MIL-S-43829A	Suspenders, Individual Equipment Belt, LC-1
MIL-S-43835B	Straps, Waist and Shoulder, Pack Frame and Field
MIL-S-43841A	Straps, Chin; Ground Troops Helmet, Steel, M-1

Category 16

Special Military Products

Study Items:

Spec.	Description
MIL-B-43366A	Body Armor, Fragmentation Protective, Groin
MIL-B-44053	Body Armor, Fragmentation Protective Vest, Ground Troops
MIL-C-44001	Cover, Helmet, Chemical Protective
MIL-C-2181J	Coveralls, Toxicological Agents Protective; M-3
MIL-C-41031B	Cover, Water Canteen, Insulated, Ctn Duck
MIL-C-43544(GL)	Carrier, Body Armor, Aircrewman, Small Arms Protective
MIL-43742B	Cover, Water Canteen, LC-2

Category 16 (Continued)

Special Military Products

Study Items:

Spec.	Description
MIL-C-43827B	Case, Small Arms Ammunition, 30-Round Magazine
MIL-C-43830A	Cover, Field Pack, Camouflage, LC-1
MIL-F-43832B	Field Pack, Combat, Nyl, Large, LC-1
MIL-F-43833B	Field Pack, Combat, Nyl, Medium, LC-1
MIL-F-12224F	Footwear Covers, Toxicological Agents Protective
MIL-H-12225F	Hood, Gas Mask, Toxicological Agents Protective, M-3
MIL-H-17024E(SA)	Hood, Extreme Cold Weather, Impermeable (Shore)
MIL-H-43461C(GL)	Havelocks, Women's
MIL-I-43903	Insert, Small Arms Protective Body Armor, Aircrewman
MIL-M-43294B	Mask, Extreme Cold Weather (Olive Green 207)
MIL-N-28935A	Net Cargo, Aerial Delivery
MIL-N-43181A	Net, Multipurpose
MIL-P-21593C(MC)	Panel Markers: Range, Flank, and Debark, Point, Nyl...
MIL-P-22295C(MC)	Protector, Trousers, Pistol Holder
MIL-B-43700B	Poncho, Wet Weather
MIL-S-43176B	Screen, Latrine, Fire, Water, Weather and Mildew Resis.
LP/P DES 1-82	Body Armor, Small Arms Protective, Aircrewman
LP/P DES 11-80	Body Armor, Combat Vehicle Crewman's, Fragmentation Prot.
LP/P DES 30-73A	Body Armor, Ground Troops, CM and ICM, Frag. Prot. Vest
MIL-S-43926B	Suit, Chemical Protective
MIL-S-44016	Sleeping Bag, Intermediate Cold, Synthetic Filled
MIL-T-82120A(MC)	Tarpaulines: Duck, Ctn; Fire, Water, W/M Resistant
MIL-T-82120(MC)	Tarpaulines: Duck, Ctn; Fire, Water, W/M Resistant
MIL-T-82152A(MC)	Tarpaulines: Duck, Ctn; Vinyl Resin Coated Both Sides
MIL-T-87020(SA)	Trousers, Disposable
MIL-V-43707B	Vest, Ammunition Carrying, For M76 and M203 Launchers
MIL-V-81523A(AS)	Vest, Survival Equipment, Type SV-2A
K-P-146E	Tarpaulines, Ctn Duck, FWWMR
DDD-C-628E	Cover, Mattress
LP/P DES 8-79B	Cover, Helmet, Camouflage

Category 16 (Continued)

Special Military Products

Study Items:

Spec.	Description
LP/P DES 12-78A	Helmet, Ground Troops', Parachutists'
LP/P DES 14-80	Hood, Combat Vehicle Crewman's, Coveralls (Balaclava)

Category 17

Miscellaneous Items

Study Items:

Spec.	Description
MIL-B-829J	Bag, Duffel
MIL-B-3108G	Bag, Waterproof, Clothing
MIL-B-3759D	Bag, Personal Effects
MIL-B-43290F	Bag, Flyers Helmet
MIL-C-7554E	Container Kits, Airdrop
MIL-C-10922F	Case, Parachutists Individual Weapons, M-1 50, Adjustable
MIL-H-43595A	Hammock, Jungle, Nyl, M-1966
MIL-H-43879	Hood, Sleeping Bag
MIL-I-43746A	Insect Net, Hat, Sun, Hot Weather
MIL-K-41835	Kit Bag Flyers Ctn Duck Sage Green

Category 18

Tents

Study Items:

Spec.	Description
MIL-F-18680B(MC)	Fly, Tent: Fire, Water, Weather, and Mildew Resistant
MIL-T-1110E	Tent, Assembly, M-1942
MIL-T-1712N	Tent, General Purpose, Medium
MIL-T-1926F	Tent, Mountain, Two-Man, Complete
MIL-T-10009F	Tent, Kitchen, Flyproof, M-1948
MIL-T-10035H	Tent, Hexagonal, Lightweight, M-1950
MIL-T-10069F	Tent, Maintenance Shelter, Fire, Water
MIL-T-10168H	Tent, Frame-Type, Insulated, Sectional, With Floor
MIL-T-1111E	Tent, Command Post, M-1945, Fire, Water, W/M Resistant
MIL-T-12354D	Tent, Arctic, 10-Man
MIL-T-14038H	Tent, Gen Purpose, Large
MIL-T-41810F	Tent, Gen Purpose, Small
MIL-T-41812F	Tent Liner Sections, Frame-Type, Maintenance, Medium
MIL-T-41813D	Tent Sections, Frame Type, Maintenance, Medium
MIL-S-3725D	Shelter Half, Tent

Category 19

Mattresses

Study Item:

Spec.	Description
MIL-M-1835AF(SH)	Mattresses and Mattress Ticks, Berth, Syn Cell. Rubber

Category 20

Pillows

Study Items:

Spec.	Description
V-P-356D	Pillows, Bed, (Feather)

Category 21

Blankets

Study Item:

Spec.	Description
MIL-B-844L	Blankets, Bed, Wool, Shrink Resistant and Mothproofed

Category 22

Tailored Coats/Jackets

Study Items:

Spec.	Description
MIL-C-3771E(MC)	Coat, Man's, Wool, Serge, Green (with Belt)
MIL-C-13990G(GL)	Coats, Men's, Wool and Poly/Wool, Army Green
MIL-C-21085E(MC)	Coats, Women's, Wool, Poly/Wool
MIL-C-29380A(MC)	Coat, Man's, All-Weather, Dress
MIL-C-29381(MC)	Coat, Woman's, All-Weather, Dress
MIL-C-40143E(GL)	Coats, Women's, Wool and Polyester/Wool
MIL-C-43368C(GL)	Coats, Men's, Poly/Wool, Tropical and Wool, Army Green
MIL-C-82186A(MC)	Coat, Man's, Poly/Wool, Green (with Belt)
MIL-J-43982A(GL)	Jacket, Woman's, Gabardine, Army Green 344

Category 23

Accessories

Study Items:

Spec.	Description
MIL-N-49367A	Neck Tab, Women's Shirt: Poly/Wool
MIL-N-41804C	Neckties, Men's, Four-In-Hand
MIL-N-43741(GL)	Neckerchief, Man's, Cotton, Knitted
MIL-N-87042A(SA)	Neckerchief (Acetate Black)
MIL-S-17868B(MC)	Scarf, Neckwear; Wool, Woman's
MIL-S-43317B	Scarf, Neckwear, Woman's, Acrylic
DDD-H-71H	Handkerchief, Man's and Woman's

Category 24

Sheets

Study Item:

Spec.	Description
DDD-S-281K	Sheet, Bed, Cotton, and Polyester/Cotton

Category 25

Towels

Study Items:

Spec.	Description
DDD-T-551K	Towel, Bath, Ctn, Terry

APPENDIX Z

DOMESTIC INDUSTRIAL BASE
APPAREL COMPANIES
1977 CENSUS OF MANUFACTURES

SIC Code	Description	Number of Companies	Number of Establishments
2331	Women's Blouses	1,297	1,422
2337	Women's and Men's Suits and Coats	1,563	1,677
2339	Women's and Men's Outerwear	1,634	1,802
2381	Fabric Dress and Work Gloves	100	132
2385	Waterproof Outerwear	155	167
2311	Men's and Boys' Suits and Coats	618	737
2321	Men's and Boys' Shirts and Nightwear	667	928
2323	Men's and Boys' Underwear	56	76
2327	Men's and Boys' Separate Trousers	405	514
2328	Men's and Boys' Work Clothing	347	656
2329	Men's and Boys' Clothing NEC(1) Outerwear	552	632
2252	Knit Hosiery NEC	382	415
2254	Knit Underwear Mills	80	92

Headwear(2)

20 cap manufacturers producing 50 percent of U.S. production.

Tents(3)

15-20 major manufacturers of recreation and camping tents.
15 manufacturers of rental tents able to convert.

(1) NEC - Not elsewhere classified.
(2) Headwear Institute, 1979 estimate.
(3) Industrial Fabric Association, 1982.

APPENDIX AA

GENERAL APPAREL CATEGORIES
DOMESTIC PRODUCTION

Category	SIC Code	Description	Domestic Production Estimate (000's)
1		Shirts--Single Needle	
	23214-07	Men's Sport Shirts-Woven	74,460
	23214-11	Men's Dress Shirts	91,596
	23214-51	Boys' Sport Shirts-Woven	18,276
	23317	Womens, Misses, and Juniors Shirts and Blouses	320,448
			521,064 Units
2		Shirts-Double Needle	
	23281-00	Men's and Boys Work Shirts	42,720 Units
3		Skirts	
	23374	Women's, Misses, and Juniors	70,152 Units
4		Trousers-Single Needle	
	23271-11	Men's Trousers and Sport Slacks	124,011
	23283-21	Men's Jean-Cut Slacks	64,940
	23271-41	Men's Shorts	4,494
	23271-57	Boys' Trousers and Sport Slacks	18,065
	23283-51	Boys' Jeans-Cut Slacks	30,725
	23271-61	Boys' Shorts	5,844
	23295-11	Women's Slacks	160,810
			413,374 Pairs
5		Trousers-Double Needle	
	23283-11	Men's Jeans	188,700
	23283-41	Boys' Jeans	72,888
	23395-31	Women's Jeans	70,406
			331,994 Pairs

GENERAL APPAREL CATEGORIES
DOMESTIC PRODUCTION
(Continued)

Category	SIC Code	Description	Domestic Production Estimate (000's)
6		Underwear-Knit Shirts	
	22541-21	Men's Undershirts-1/4 Sleeve	198,648
	22541-31	Boys' Undershirts-1/4 Sleeve	59,148
	22541-42	Men's and Boys' Sleeveless Undershirts	43,486
	23212-01	Men's Sport Shirt-Knit	325,800
	23212-24	Boys' Sport Shirt-Knit	153,108
			780,190 Units
7		Underwear-Knit Bottoms	
	22541-62	Knit Shorts	7,416
	22541-61	Men's Briefs	241,740
	22541-71	Boys' Briefs	101,640
	23412-13	Women's, Misses, and Juniors Panties	434,484
			785,280 Units
8		Underwear-Woven Shorts	
	23221-16	Men's and Boys' Boxer Shorts	63,072 Units
9 & 10		Outerwear Parkas and Liners	
	23291	Men's and Boys' Heavy Outerwear	23,688
	23292 pt	Men's and Boys' Light Outerwear	26,988
	23397 pt		
	22533 pt	Women's Outerwear	42,900
	23850	Men's and Boys' Raincoats	44,472
	23850	Women's and Girls Rainwear	6,708
	23371	Women's Juniors and Misses Coats	201,696
	23112	Men's Overcoats	39,120
			385,572 Units

GENERAL APPAREL CATEGORIES
DOMESTIC PRODUCTION
(Continued)

Category	SIC Code	Description	Domestic Production Estimate (000's)
11		Work Clothing	
	23284-01	Men's Work Pants	39,276
	23284-20	Men's Coveralls	13,044
	23284-71	Boys' Workpants and Coveralls	4,572
			56,892 Pairs
12		Knit Socks(1)	
	2252	Men's, Boys', and Childrens Hosiery	1,833,648 Pairs
13		Headwear(4)	
	2352	Emblem Caps	90,000 Units

1979-20 Manufacturers produced 48 million emblem caps at 50 percent of capacity.

14		Gloves(2)	
	23811	Dress and Semi-dress	38,196
	23812	Workgloves	299,976
			338,172 Pairs
15		Narrow Fabrics(2)	
	22411	Woven Elastic	1,561,609 Lin. Yds.
	22411-8	Ribbons	578,874 Lin. Yds.
	22411-5	Tapes	2,564,552 Lin. Yds.
	22411-3	Webbing	589,131 Lin. Yds.
	22411-11	Elastic Braids	956,662 Lin. Yds.

GENERAL APPAREL CATEGORIES
DOMESTIC PRODUCTION
(Continued)

Category	SIC Code	Description	Domestic Production Estimate (000's)
16		Special Military Products	
17		Miscellaneous Items	
18		Tents(5)	
		Recreational and Camping	1,200 Units
		Rental Tent Industry	17 Units
			1,217 Units
19		Mattresses	
	25150-10	Mattresses	14,582 Units
	25153-00	Foundations	8,213 Units
20		Pillows(3)	
	2392	Bed	39,167
		Decorative	22,221
			61,388
21		Blankets(3)	
	Twin	Thermal Woven	43,748 Sq. Yds.
		Other Woven and Nonwoven	112,763 Sq. Yds.
			156,511

Square yards required per twin size blanket = 5
156,511 ÷ 5 = 31,302 twin size blankets

GENERAL APPAREL CATEGORIES
DOMESTIC PRODUCTION
(Continued)

Category	SIC Code	Description	Domestic Production Estimate (000's)
22		Tailored Coats/Jackets	
	2311-1	Men's Suits	14,816
	23113	Men's Sport Coats	17,692
	23114	Boys' Suits	6,281
	23372	Women's, Misses, and Juniors Suits	18,162
	23374-22	Women's, Misses, and Juniors Jackets	20,131
			77,082
23		Accessories	
24		Sheets(2)	
		Crib	7,692
	2211		
		Flat	121,224
		Fitted	80,028
			208,944
25		Towels(2)	
	2211		539,172

Source: unless specified otherwise, Current Industrial Report 1980.
(1) 1980 Survey and Analysis of Circular Hosiery Machinery in the U.S.
(2) Current Industrial Report 1981.
(3) Cotton Counts Its Customers 1982 Edition.
(4) Headwear Institute 1979 estimate from Mr. Homer Page.
(5) Industrial Fabric Association 1982.

APPENDIX BB

SELECTED ITEM GARMENT ANALYSIS

Specification Number	Description
MIL-C-43368C(GL)	Coat, Man's Polyester/Wool Tropical, AG 344, Class 3
MIL-S-40128E(GL)	Skirt, Women's, Wool and Polyester/Wool
MIL-T-44047	Trousers, Combat; Woodland Camouflage Pattern
MIL-C-44048(GL)	Coat, Combat; Woodland Camouflage Pattern
MIL-S-44041(GL)	Shirt, Man's Long Sleeve, Polyester/Cotton, Army Green, 415 Durable Press
MIL-L-43536D	Liner, Cold Weather Coat
MIL-P-43496C	Parka, Extreme Cold Weather
MIL-F-43832B	Field Pack, Combat, Nylon, Large, LC-7

MIL-C-43368C(GL) COAT, MAN'S POLYESTER/WOOL TROPICAL, AG 344, CLASS 3

Garment is only applicable to manufacturers of tailored clothing.

Problems that above manufacturers will likely experience or prefer changes in construction in order of priority include:

1. Front Canvas: Basting the front canvas into position and padding the lapel is a construction technique used by a minority of the current tailored clothing manufacturers. Consider fusing a canvas onto the coat front prior to the sewing operations. This procedure would make the production of this coat applicable to more tailored clothing manufacturers.

2. Undercollar: The current construction uses a two-piece undercollar that is padded in the sewing room. It requires several operations to be performed before the topcollar and undercollar are joined. Consider changing to a pre-padded undercollar. This would eliminate the preparatory operations and would make the garment construction applicable to industry manufacturing.

3. Collar: The collar points are rounded and therefore require hand stitching to join the topcollar and undercollar in this area. Consider changing to a square collar point. This would eliminate the need for hand stitching and make the garment construction more applicable to industry manufacturing.

Other considerations of lesser importance include:

- Pocket Welt Machine used in lieu of conventional single needle pocket making for the lower front pockets and the lining pocket.

- Two thread chainstitch in lieu of lockstitch seams on join lining to facing, make sleeve lining, sew sleeve inseam and sew sleeve elbow seam.

- Lockstitch tack in lieu of hand finishing at vent corners.

- Fusing a nonwoven wigan onto the sleeve cuff in lieu of sewing a woven wigan onto the sleeve seam outlets.

MIL-S-40128E(GL) SKIRT, WOMEN'S, WOOL AND POLYESTER/WOOL

Garment is most applicable to manufacturers of dress and casual slacks requiring open seam construction. Some ladies' sportswear manufacturers may be competitive but this is unlikely because of high fashion and the frequency of style changes required. Construction is probably more common to high quality dress slack manufacturers.

Problems that above manufacturers will likely experience or prefer change in construction in order of priority include:

1. Finishing of raw edges on inside of garment. Allow contractor option of overlocking raw edge with six to ten stitches per inch or pinking 1/8 to 3/16 inches in depth.

2. Make placket and attach zipper: Allow option to attach zipper by inserting zipper tape under overlock seam on side of folded placket, or, further consider allowing side opening edge of back and lining to be inserted under same overlock seam as described above.

3. Back and inside lining

   a. Eliminate basting lining to back since side edges are overlocked together.

   b. Make lining side of back with darts pre-sewn and avoid seaming back shell and lining into seams on back darts.

4. Darts
   Allow option of staying across top of darts, thus turning in correct direction, and finishing only with final press in lieu of specified sew and press individual darts.

5. Seams
   Allow option of 301 or 401 stitch on all inside seaming operations.

6. Bottom Hem
   Note: Sample garment was pinked and bound, with binding attached to bottom edge, turned up 2 1/2 inches, and finished with blindstitch.

   Allow option of overlock on bottom edge, turn up and blindstitch thus eliminating binding.

7. Band
   Allow option of label being inserted under inside of topstitch band seam.

8. Loops
   Allow option of folding and inserting ends of loops under band seam in lieu of staying ends before inserting under seam.

MIL-T-44047 TROUSERS, COMBAT; WOODLAND CAMOUFLAGE PATTERN

Garment is most applicable to manufacturers of jeans, and most denim jackets and industrial workwear.

Problems that above manufacturers will likely experience or prefer change in construction in order of priority include:

1. Hip Pocket: Cut in welted hip pocket is not common to lapped or fell seam construction. Consider changing to outside patch pockets, with or without bellows, or backs. Flaps on pockets are not considered problem.

2. Fly: The major change that would make the garment more applicable to industry manufacturing would be a zipper fly. This is not considered number one priority because it is understood that buttonhole construction may be an absolute requirement in combat. Adjustments in shape at bottom of right fly would aid any manufacturer, and could be done without affecting strength, durability, or appearance.

3. Band: Basic jean construction on left band at fly opening would be more applicable for above manufacturers. Top buttonhole is through fly and band so appearance would be close to same. With jean construction, band end on left would be finished similar to present right band end.

4. Join sides and join seat: same as #1 on coat.

Other considerations of lesser importance include:

- Chainstitch in lieu of backstitch on attached facing to front and back pockets.

- Make Cargo Pockets - Accept same construction on top hem as on coat. (or) Consider acceptance of same construction as Attach Band or facing stitched to pocket using two needle 401 type stitch with folder.

- Allow one-piece construction on buttonholed fly in lieu of two-piece.

MIL-C-44048(GL) COAT, COMBAT; WOODLAND CAMOUFLAGE PATTERN

Garment is applicable to manufacturers of jeans, most denim jackets, and industrial workwear.

Problems that above manufacturers will likely experience or prefer change in construction in order of priority include:

1. Set in Sleeves, Join Side and Sleeve Seams: Allow contractor options of seaming with four-thread safety stitch (515/SSa-2) and then raise-stitching over seam with two-needle chainstitch (401). (Single-needle chainstitch should be considered.) This method has higher labor cost but will add those contractors to bidding list who do not have in-house capability of fell (lapped) seam (LSc-2) construction.

2. Attach Flaps: Be consistent with spec on trousers by allowing single needle on raised stitch of attached flap.

3. Patches to Sleeves: Again, be consistent with trouser spec and single-needle patches to sl[illegible]s.

MIL-S-44041(GL) SHIRT MAN'S, LONG SLEEVE, POLYESTER/COTTON, ARMY GREEN, 415 DURABLE PRESS

Garment is most applicable to manufacturers of dress shirts and high-quality sport shirts.

Problems that above manufacturers will likely experience or prefer change in construction in order of priority include:

1. Utilization of semi-automated and automated equipment: It has been KSA's experience that manufacturers of this particular product have, in general, invested more in high technology than any other apparel product line. KSA feels that it would be to Natick's advantage to consider as number one priority, allowing potential contractors to submit for approval, minor changes in shapes of collars, flaps, pockets, cuffs, and possibly front plackets when required. If acceptable, this deviation would allow the manufacturers an opportunity to possibly utilize highly productive equipment without an additional investment to justify or include in cost quotations. Minor changes in shape of a part will often require major investment in equipment modification if an existing automated machine is to be utilized.

2. Pressing: Consider allowing manufacturers the choice of using conventional pressing equipment in lieu of currently required hot head application and avoid additional investments where hot head equipment is not available. Garments would still have to pass the rigid end item test requirements shown in the specifications. It has been KSA's experience that durable press quality can be achieved on most fabrics using a conventional utility press and increasing the pressing cycle time.

3. Per Pocket: Accept 3/8 to 1/2-inch finished hem with either 301 or 401 stitch, across top of pocket.

MIL-L-43536D LINER, COLD WEATHER COAT

Basically a simply constructed garment that is most applicable to manufacturers of lower to medium quality outerwear and possibly some industrial workwear. However, bids would likely be received from any type manufacturer with limitations on availability of buttonhole equipment.

Problems that above manufacturers will likely experience or prefer change in construction in order of priority include:

1. Attach Binding - Approve chainstitch as optional.

2. Consider snaps in lieu of buttonholes as per parka.

MIL-P-43496C PARKA, EXTREME COLD WEATHER

Garment is applicable only to manufacturers of medium quality outerwear or limited type industrial shirts. Construction requirements are within a limited range and differences will depend on individual manufacturer's methods.

MIL-F-43832B FIELD PACK, COMBAT, NYLON, LARGE, LC-7

Specialty item that will be limited to manufacturers of comparable products such as backpacks, tents, golf bags, lightweight luggage, bandoliers, etc.

APPENDIX CC

TEXTILE AND APPAREL PLANT CLOSINGS
SOUTH CAROLINA (SEPTEMBER 79 - JUNE 82)

Company	Location
Abney Mills	Woodruff
Graniteville Company	Williston
Milliken and Company Excelsior Plant	Union
Beaufort Shirtmakers	Beaufort
Southern Worsted Mills	Greenville
J. P. Stevens Aragon Plant	Rock Hill
Grendel Corporation Poinsett Mill	Greenville
Newberry Mills	Newberry
Ruth's Fashions	Greenville
Collins and Aikman	Cowpens
Georgetown Textile	Andrews
Southern Stitchmasters	Hamer
Florence Manufacturing Company	Florence
Mount Vernon Mills	Columbia
Spring Mills Gayle Plant	Chester
J. P. Stevens Apalache Plant	Greer
M. Lowenstein Pacific Home Fashions	Orangeburg
J. P. Stevens Riverine Plant	Taylors
J. P. Stevens	Jonesville
J. P. Stevens Republic #1	Great Falls
J. P. Stevens Republic #2	Great Falls
Quality Mills	York
Union Textile/Thor Fibers	Union
Monsanto	Blacksburg
J. P. Stevens Taylors #1 Plant	Taylors
Riegel Textile	Walhalla
J. P. Stevens Industrial Plant	Rock Hill
Oneita Knitting	Lane
Plusa, Inc.	Jamestown
Anderson Hosiery	Prosperity
Prices Apparel	Dillon

APPENDIX CC

TEXTILE AND APPAREL PLANT CLOSINGS
SOUTH CAROLINA (SEPTEMBER 79 - JUNE 82)
Continued

Company	Location
Highlander Manufacturing	Blackville
EMC	Easley
Jonathan Logan Butte Knit	Spartanburg
Jasta Manufacturing	Branchville
Blue Bell - Sedgefield Division	Westminister
Pacific Home Fashions	Orangeburg
Ryco Knitting	Simpsonville
Walterboro Dress	Walterboro

APPENDIX CC

TEXTILE PLANT CLOSINGS

GEORGIA

(SEPTEMBER 80 - SEPTEMBER 82)

(Continued)

Company	Location
American Mills	Monticello
Canton Textile Mills	Canton
Elberton Mills, Division United Merchants & Manufacturers	Elberton
Fulton Cotton Mills (later Fabrics America)	Atlanta
Goodyear Tire and Rubber Company (Textile Tire Cord)	Rockmart
Goodyear Tire and Rubber Company (Textile Tire Cord)	Cedartown
ITT Rayonier-Lumber	Camak
Milliken & Company, Calumet Plant	LaGrange
Modern Fibers	Calhoun
Modern Fibers	Fitzgerald
Rosewood Knitting Mills	Martinez
Rothschild Mills	Acworth
Rothschild Mills	Columbus
Scottdale Mills	Scottdale
Shamrock Mills	Marietta
Trend Carpet Mills	Rome
Unique Knitting Mills	Acworth

APPENDIX CC

TEXTILE AND APPAREL PLANT CLOSINGS
NORTH CAROLINA
(JANUARY - JULY 1982)

(Continued)

Company	Location
Blush Lingerie	Elkin
Kenneth Home Fashion	Matthews
Burlington Garment Company	Burlington
Skyland Textile, Inc.	Forest City
Rainbow Classics Manufacturing	Angier
Specialty Dyers	Concord
Burlington Industries	Central Fall
ATHTEX	Lowell
Burlington Industries, Phenix Plant	Kings Mountain
Blue Bell, Wrangler Womenswear	Bethel
H & S Processors, Inc.	Crouse
Guilford Mills, Lowell Plant	Lowell
Heritage Quilts, Inc.	Bryson City
Heritage Quilts, Inc.	Sylva
Blue Bell, Wrangler Division	Spruce Pine
Blue Bell, Wrangler Division	Tipton Hill
Blue Bell, Wrangler Division	Micaville
Dan River, Mebane Plant	Mebane
Dixie Yarn Company	Cedar Falls
Lynx Hosiery, Inc.	Mount Airy
Burlington Industries, Goldsboro Plant	Goldsboro
Texfi Industries, Inc.	Fayetteville
Crompton-Pilot Mills	Raleigh
Belding Lily Company	Shelby
Unifi, Inc.	Burlington
Block Industries, Inc.	Benson
Craftex, Inc.	Farmville
Carolina Machinery, Rando Corporation	Charlotte
Blue Bell, Wrangler Division	Lenoir
Blue Bell, Wrangler Division	Taylorsville
Burlington Industries, Cascade Weaving	Mooresville
Mount Vernon, Lanier Plant	Clarkton

APPENDIX DD

RECENT U.S. TEXTILE MILL PURCHASES OF FOREIGN EQUIPMENT

J.P. Steven, Seneca, S.C., purchases 100 TecnoMaTex TMT 80 filling accumlators for Sulzer weaving machines from Lang Ligon & Co.

Hawyard-Schuster Woolen Mills Inc. (East Douglas, Mass.), Newtex Industries Inc. (Victor, N.Y.), and Mastercraft Corp. (Spindale, N.C.) purchase Dornier rigid-rapier weaving machines from Batson Yarn & Fabrics Machinery Group.

Cone Mills, Greensboro, N.C., purchases 208 TMT 80-filling accumulators for wide-filling, mix-Sulzer weaving machines, and 213 TMT 80 accumulators for wide Sulzer, multicolor PU looms, for its Minneola Plant, Gibsonville, N.C., from Lang Ligon & Co.

Dan River Inc., Greenville, S.C., purchases 186-Aerofil air-jet-loom, conversion units from Leesona Corp. Purchase completes a three-year trial installation at the Greenville Plant, Woodside Div.

Walton Mills Inc., Monroe, Ga., orders 162 TecnoMaTex 80 filling accumulators from Lang Ligon. They will go on new Saurer 400 weaving machines now being installed in new facilities under construction.

Springs Industries plans to invest $175-million in new textile technology. The first phase is to replace 4,500 looms in its sheeting and apparel plants with $80-million worth of new equipment.

Burlington Industries plans a multi-million dollar modernization program that includes a $25-million project at its Asheville and Cramerton (N.C.) plants. The project will convert the Asheville Plant to 100% air-jet weaving and modernize the Cramerton Plant equipment.

Frank Ix & Sons Inc., Lexington, N.C., purchases over 100 TecnoMaTex TMT 80 filling accumulators for its Saurer and Dornier looms from Lang Ligon & Co.

Dan River Inc., Danville, Va., received the 10,000th Staubli KR rotary dobby from Staubli KG and Sulzer Bros., in honor of Dan River's centennial and in recognition of its pioneering role in producing shirting fabrics on Sulzer weaving machines.

M. Lowenstein & Sons, Lyman, S.C., has purchased 102 Sulzer weaving machines to be installed at its Joseph Lyons Plant in Anderson, S.C., to product sheeting.

Cone Mills Corp., Greensboro, N.C., has purchased 328 Tecnomatex TMT 80 filling feeders for its Salisbury (N.C.) Plant to be used on Saurer 400 looms producing medium-weight apparel fabrics.

Dorr Woolen Mills, Guild, N.H., has purchased additional Dornier rigid-rapier weaving machines from Batson Machinery Inc.

Cone Mills, Greensboro, N.C. bought 328 TMT 80 filling feeders from Tecnomatex of Switzerland for its Salisbury (N.C.) Plant.

Thomaston Mills, Thomaston, Ga., buys 32 Nuovo Pignone shuttleless looms; an Automatic Materials Handling chute feeding system; 16 Americard II cards from John D. Hollingsworth; and Zinser Model 720, 2-del drawing frames with automatic doffers.

Wendell Fabrics Corp., Blacksburg, S.C., buys an undisclosed number of Dornier weaving machines, from Batson Yarn & Fabrics Machinery Group.

Blumenthal Mills Inc., Marion, S.C., purchases 90 TecnoMaTex TMT 80 filling accumulators from Lang Ligon & Co.

Beacon Mfg. Co., Swannanoa, N.C., installs 74 TecnoMaTex TMT 80 filling accumulators on TW-11 Sulzer weaving machines in its Westminster (S.C.) plant from Lang Ligon & Co.

Dan River, Greenville, S.C., has installed a Tsudakoma high-speed warper, single-end sizing machine and rebeaming machine at its Haynsworth Plant. The machines were purchases from Tekmatex Inc.

Monsanto Co.'s Dalton (Ga.) Plant purchases 40 Kamitsu Model ET-1012s take-up winders from Izumi Int'l.

Thomaston Mills, Thomaston, Ga., buys 32 Nuovo Pignone shuttleless looms; an Automatic Materials Handling chute feeding system; 16 Americard II cards from John D. Hollingsworth; and Zinser Model 720, 2-del drawing frames with automatic doffers.

Coats & Clark Inc., Albany, Ga., purchases several 160-spindle Barmag WT1E two-for-one twisters for filament yarns.

Comtwist Inc., Mebane, N.C. purchases Murata 2-for-1 twisters for its new commission-throwster operation which came on stream Sept. 1.

L.W. Packard & Co., Ashland, N.H., purchases four woolen spinning frames from American Duesburg Bosson.

Coats & Clark Inc. has purchased 22 silver-fed Super High Draft worsted ring spinning frames from Officine Gaudino.

Carleton Woolen Mills Inc., Winthrop, Me., buys CBP woolen spinning frames from American Duesberg Bosson Inc.

Martin Processing, Martinsville, Va., buys additional Mackie spinning frames from Tex America.

Mayfair Mills, Pickens, S.C., purchases eight Rovematic Model FB-1D roving frames; Harriet & Henderson Yarns Inc., Henderson, N.C., buys 12 Rovematic Model FB-1D roving frames; Maqatex SA, Puebla Pue., Mexico, purchases six Spinomatic Model SCB-17E cotton system-ring-spinning frames and a Versamatic Model DE-8C drawing frame from Platt Saco Lowell.

Kendall Co., Boston, Mass., and Freundenberg & Co., Weinheim, Germany, announced formation of a U.S. joint venture to manufacture and market non-woven spunbonded fabrics in North America.

Lutravil Spinnvlies, a Kaiserslautern, W. Germany spunbondeds manufacturer, is planning a joint venture with Kimberly Clark "somewhere in the Carolinas." The initial single line will produce spunbonded polyester nonwovens for automotive carpet backings and bases for roofing felt materials.

Shuford Mills, Hickory, N.C., buys 10 Versamatic Model DF-11A drawing frames for its Hickory and Hildebran Plants from Platt Saco Lowell.

Thomaston Mills, Thomaston, Ga., buys 32 Nuovo Pignone shuttleless looms; an Automatic Materials Handling chute feeding system; 16 Americard II cards from John D. Hollingsworth; and Zinser Model 720, 2-del drawing frames with automatic doffers.

Duro Finishing Corp., Fall River, Mass., purchases the first Goller flash-ager range with washers in the United States from Kratex Textile Machine Sales & Service Inc.

The Defense Personnel Support Center, Philadelphia, Pa., purchases a third Versamatic semi-decating machine from Gessner Co.

Dan River Inc. is phasing out operations at its Greenville (Ala.) corduroy plant, with permanent shutdown scheduled for Nov. 1.

Bibb Co. closed its Hanover (Pa.) Plant, July 15. The carpet yarn plant employed 200 workers.

J.P. Stevens & Co., is closing its Jonesville (S.C.) Plant and the Republic #1 Plant in Great Falls, S.C. Jonesville employs about 225 in its industrial fabrics production, while Republic #1 produces apparel fabrics and employs about 200.

Burlington Industries Inc. is phasing out its Cascade Weaving plant in Mooresville, N.C. over the next two or three months. The plant employs 375 workers.

Celanese Corp. New York, N.Y., closes its Cumberland, Md., acetate-triacetate plant for three months because of "poor demand for tricot yarns." Two other acetate plants--at Narrows, Va. and Rock Hill, S.C.--are not affected by the Cumberland closing, the company says.

Missbrenner Prints Inc., Clifton, N.J. purchases a Reggiani 12-color rotary screen printing machine.

Textile Printing & Finishing Co., Lebanon, Pa., installs a 12-color, 72-in. rotary printing machine from Johannas Zimmer Co.

Thomaston Mills, Thomaston, Ga., buys 32 Nuovo Pignone shuttleless looms; an Automatic Materials Handling chute feeding system; 16 Americard II cards from John D. Hollingsworth; and Zinser Model 720, 2-del drawing frames with automatic doffers.

Greenwood Mills, Greenwood, S.C., buys four Marzoli automatic bale openers for its Durst Plant and Mathews No. 2 Plant from Cromtex.

Thomaston Mills, Thomaston, Ga., buys 32 Nuovo Pignone shuttleless looms; an Automatic Materials Handling chute feeding system; 16 Americard II cards from John D. Hollingsworth; and Zinser Model 720, 2-del drawing frames with automatic doffers.

Clinton Mills, Clinton, S.C., purchased 32 Crosrol Mark 3/80 single high-production cards for intimate blend of cotton-polyester at its Lydia Plant.

Macfield Texturing, Burlington, N.C., purchases additional high-speed texturing machines Model FK6L-10 for its nylon operations from American Barmag.

Nantong Textile Industry Corp., Nantong, China, will put a new 4,700-ton polyester POY plant on stream in 1984. This is the third major contract for Zimmer AG in China over the last five years.

Tsusuki Spinning Co., Nagoya, Japan, is installing 96 air-jet weaving machines from Nissan.

Chung Shing Textile Co., Taiwan, plans a fifth expansion to produce 20,000 ton/yr polyester staple fiber and 6,000 ton/yr polyester chips.

Namsun Textile Co., Korea, buys 63,000 spindles of Type 802 Spinomatic spinning frames from Platt Saco Lowell.

Nakano Shokufu, an Osaka, Japan, textile group, orders 266 Saurer 500 two-phase rapier weaving machines, replacing 1000 conventional weaving machines, from Adolph Saurer Ltd.

APPENDIX EE

INDUSTRY SHIPMENTS FOR ALL MANUFACTURING INDUSTRIES: 1958 to 1979
(In millions of constant 1972 dollars)

1972 Code	SIC Title	1958	1963	1967	1972	1975	1976	1977	1978	1979
2211	WEAVING MILLS, COTTON	3389.1	3713.0	3952.1	2660.6	2116.3	2295.0	2605.1	2330.5	2519.3
2221	WEAVING MILLS, SYNTHETICS	1271.2	1803.5	2549.6	3856.6	3682.0	4271.5	4678.9	4386.9	4644.3
2231	WEAVING & FINISHING MILLS, WOOL	1072.7	1125.5	1126.0	450.1	424.0	464.7	424.2	427.7	420.4
2241	NARROW FABRIC MILLS	408.5	498.0	548.1	566.2	417.6	482.2	471.0	472.6	503.5
2251	WOMEN'S HOSIERY EXC SOCKS	150.0	520.6	755.6	984.7	757.2	666.2	870.3	1068.3	1171.6
2252	HOSIERY NEC	418.6	448.4	564.7	600.6	634.3	678.2	746.6	790.8	753.8
2253	KNIT OUTERWEAR MILLS	865.5	1125.4	1350.1	1703.8	1759.9	1815.7	1886.8	1808.8	1652.4
2254	KNIT UNDERWEAR MILLS	370.0	421.2	493.1	544.6	516.5	519.1	455.0	498.4	504.8
2257	CIRCULAR KNIT FABRIC MILLS	201.3	382.2	777.7	2808.8	2276.6	2226.5	2507.4	2273.0	2321.8
2258	WARP KNIT FABRIC MILLS	164.1	305.1	501.2	987.7	1042.7	1243.1	1249.0	1371.0	1366.0
2259	KNITTING MILLS NEC	35.1	48.1	44.0	73.1	102.7	85.9	70.1	74.8	73.8
2261	FINISHING PLANTS, COTTON	1058.9	1202.9	1135.8	623.3	482.1	500.9	474.1	504.7	479.7
2262	FINISHING PLANTS, SYNTHETIC	347.6	476.0	718.2	1365.2	1590.4	1654.9	1815.9	1936.3	1658.5
2269	FINISHING PLANTS NEC	197.2	264.9	347.1	637.3	394.5	490.4	625.5	647.1	471.5
2271	WOVEN CARPETS & RUGS	350.2	331.7	254.1	212.3	124.2	140.9	88.1	89.5	123.2
2272	TUFTED CARPETS & RUGS	242.2	672.0	1362.8	2775.2	2492.2	2845.8	3585.0	3769.7	4212.0
2279	CARPETS & RUGS NEC	50.0	27.3	84.5	157.9	83.7	85.8	91.3	90.1	63.8
2281	YARN MILLS, EXC WOOL	928.7	1154.7	1484.8	2248.3	2086.5	2231.5	2488.7	2574.1	2454.9
2282	THROWING & WINDING MILLS	185.1	342.5	608.1	1427.6	1425.0	1862.6	1606.5	1615.0	1603.9
2283	WOOL YARN MILLS	291.9	411.5	382.9	221.4	162.9	170.6	136.0	128.4	202.9
2284	THREAD MILLS	258.2	255.0	319.9	345.4	311.2	333.6	371.6	371.6	374.8
2291	FELT GOODS, EXC WOVEN FELTS & HATS	101.2	136.4	132.9	146.5	133.4	145.0	152.5	150.7	168.5
2292	LACE GOODS	79.3	64.8	80.2	47.1	20.0	24.1	31.9	28.6	40.9
2293	PADDING & UPHOLSTERY FILLING	174.9	193.2	204.0	134.6	112.2	113.1	133.4	150.1	154.7
2294	PROCESSED TEXTILE WASTE	110.0	101.2	104.0	133.8	112.7	137.4	145.4	173.7	189.1
2295	COATED FABRIC, NOT RUBBERIZED	309.0	532.6	751.4	865.8	708.9	842.2	735.9	659.1	670.0
2296	TIRE CORD & FABRIC	374.6	400.5	466.9	685.1	569.9	616.8	939.9	965.5	936.3
2297	NONWOVEN FABRICS	108.5	133.6	183.9	397.4	406.4	468.5	595.3	786.6	804.5
2298	CORDAGE & TWINE	178.3	157.4	198.3	191.0	173.8	173.4	196.2	206.2	207.6
2394	CANVAS & RELATED PRODUCTS	180.8	193.0	303.3	276.4	249.6	251.6	392.3	450.6	385.4
2823	CELLULOSIC MAN-MADE FIBERS	756.0	807.7	960.4	589.5	657.5	701.9	737.9	773.3	807.9
2824	ORGANIC FIBERS, NONCELLULOSIC	500.6	1209.6	1985.5	3638.9	4767.0	5064.2	5805.0	6229.5	6782.5
3552	TEXTILE MACHINERY	524.0	728.4	895.2	823.7	732.4	722.7	636.1	626.5	613.9
3636	SEWING MACHINES	116.4	124.9	137.1	159.6	149.4	182.2	201.1	197.6	222.5

APPENDIX FF

LIST OF CONTRIBUTING AGENCIES AND ASSOCIATIONS CONTACTED FOR REPORT
(see List of Abbreviations, Volume 1)

ATMA	CLEMSON
ATMI	FPI
MMFPA	WQMA
NFI	DPSA
NTA	ASA
PCST	DARCOM
FIT	TSARCOM
SBA	TRADOC
AAFES	NSC
GSA	DCSPER
ASTM	DoD CONGRESSIONAL LIAISON
AAMA	TEXTILE ECONOMICS BUREAU
NC STATE	SLIDE FASTENER ASSOCIATION
NAHM	

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