

# AD-A258 489



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## DOCUMENTATION PAGE

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12. PERSONAL AUTHOR(S) <b>Sniezek, Frank</b>				
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19. ABSTRACT (Continue on reverse if necessary and identify by block number)  <b>This POP report is for the Charge, Demolition, Shaped, 15 Pound, M2A4 which is packaged 4 charges/Mil-B-2427 wood box. This report describes the results of testing conducted.</b>				
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<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <p><b>DISTRIBUTION STATEMENT A</b> Approved for public release Distribution Unlimited</p> </div>				
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22a. NAME OF RESPONSIBLE INDIVIDUAL <b>STEVE RUFFINI</b>			22b. TELEPHONE (Include Area Code) <b>(201) 724-2515</b>	22c. OFFICE SYMBOL <b>SMCAR-AEP</b>

I. REPORT NUMBER: DOD POP HMTR/AYD 92-010

II. TITLE: Performance Oriented Packaging Report for Charge, Demolition, Shaped, 15 lb, M2A4

AUTHOR: Frank M. Sniezek

PERFORMING ACTIVITY: ARDEC

ADDRESS: Department of the Army  
ARDEC, SMCAR-AEP  
HQ, U.S. Army Armament, Munitions, and Chemical Command  
Picatinny Arsenal, NJ 07806-5000

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## 1. DATA SHEET

### CONTAINER

Type: Box  
UN Code: 4C1  
Nomenclature: Packing and Marking for Charge, Demolition, Shaped,  
15 lb, M2A4 or M2A3 (Practice)  
Specification Number: Type II, Grade A, Class 2, Mil-B-2427  
Drawing Number: 9281170  
Material: Wood  
Gross Weight: 80 pounds  
Outside Dimensions: 22 1/4 x 20 3/4 x 17 1/4  
Inside Dimensions: 19 1/4 x 19 1/4 x 15

### PRODUCT

Name: Charge, Demolition, Shaped, 15 lb, M2A4  
Drawing Number: 8861565  
United Nations Number: 0048  
Physical State: Solid  
Amount per Container: 4

## 2. BACKGROUND, TESTS, AND RESULTS

Reference the following document:

- a. 49CFR, October 1, 1991 Edition

Instead of testing with the actual item, three wooden boxes built to the same specification but packed with a fiberboard box loaded with sand to a gross weight of 150 pounds were tested.

A Stacking Test was conducted on one container with a weight of 1600 pounds for 72 hours in lieu of three containers for 24 hours. This weight exceeds the minimum requirement for a 10 foot stack height which is 1043 pounds.

A Loose Cargo Test was conducted on three containers for one hour. The packages were tested at a vibration table frequency such that the bottom of the packages were raised 1/4 inch from the platform, which exceeds the requirement of 1/16 inch.

A Four Foot Drop Test was conducted on one of the containers that was subjected to the Loose Cargo Test. One container was dropped five times at different orientations as follows: top, bottom, long side, short side, and a top corner at the closure. This exceeds the requirement of one drop per container.

Test results indicated no leakage or spillage of the contents from the containers following any of the tests conducted, meeting the requirements of the 49 CFR.