

AD-A258 489



DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1a. REPORT SECURITY CLASSIFICATION Unclassified			1b. RESTRICTIVE MARKINGS		
2a. SECURITY CLASSIFICATION AUTHORITY			3. DISTRIBUTION/AVAILABILITY OF REPORT Unlimited		
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE					
4. PERFORMING ORGANIZATION REPORT NUMBER(S) DOD POP HMTR/AYD 92-010			5. MONITORING ORGANIZATION REPORT NUMBER(S)		
6a. NAME OF PERFORMING ORGANIZATION Packaging Division, AED		6b. OFFICE SYMBOL (If applicable) SMCAR-AEP	7a. NAME OF MONITORING ORGANIZATION		
6c. ADDRESS (City, State, and ZIP Code) U.S. Army, ARDEC Picatinny Arsenal, NJ 07806-5000			7b. ADDRESS (City, State, and ZIP Code)		
8a. NAME OF FUNDING/SPONSORING ORGANIZATION		8b. OFFICE SYMBOL (If applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER		
8c. ADDRESS (City, State, and ZIP Code)			10. SOURCE OF FUNDING NUMBERS		
			PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.
			WORK UNIT ACCESSION NO.		
11. TITLE (Include Security Classification) Performance Oriented Packaging Report for Charge, Demolition, Shaped, 15 Pound, M2A4					
12. PERSONAL AUTHOR(S) Snizek, Frank					
13a. TYPE OF REPORT Final		13b. TIME COVERED FROM _____ TO _____		14. DATE OF REPORT (Year, Month, Day) 92-11-02	
15. PAGE COUNT					
16. SUPPLEMENTARY NOTATION					
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)		
FIELD	GROUP	SUB-GROUP	Performance Oriented Packaging, POP, Charge, Demolition, Shaped, 15 Pound, M2A4 Mil-B-2427 wood box		
19. ABSTRACT (Continue on reverse if necessary and identify by block number)					
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.					
DTIC ELECTE DEC 14 1992 S B D					
DISTRIBUTION STATEMENT A Approved for public release Distribution Unlimited					
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT ☐ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS			21. ABSTRACT SECURITY CLASSIFICATION Unclassified		
22a. NAME OF RESPONSIBLE INDIVIDUAL STEVE RUFFINI			22b. TELEPHONE (Include Area Code) (201) 724-2515		22c. OFFICE SYMBOL SMCAR-AEP

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

DATE: 2 Nov 92

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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.