

DOCUMENTATION PAGE

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2b. DECLASSIFICATION / DOWNGRADING SCHEDULE

1b. RESTRICTIVE MARKINGS

3. DISTRIBUTION / AVAILABILITY OF REPORT

Unlimited

4. PERFORMING ORGANIZATION REPORT NUMBER(S)

DOD POP HMTR/AYD 91-005

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
ORGANIZATION8b. 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,
Block, M112

12. PERSONAL AUTHOR(S)

Snizek, Frank

13a. TYPE OF REPORT

Final

13b. TIME COVERED

FROM _____ TO _____

14. DATE OF REPORT (Year, Month, Day)

91-07-16

15. PAGE COUNT

3

16. SUPPLEMENTARY NOTATION

17. COSATI CODES

FIELD GROUP SUB-GROUP

18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)

Performance Oriented Packaging, POP, Charge,
Demolition, Block, M112, Mil-B-46506,
Wirebound box

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

This POP report is for the Charge, Demolition, Block, M112, which is packaged 30 charges/Mil-B-46506 wirebound box. This report describes the results of testing conducted on a similar packaging which is used as an analogy for this item.

91-09044



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

II. TITLE: Performance Oriented Packaging Report for Charge,
Demolition, Block M112

PERFORMING ACTIVITY: ARDEC

DATE: 16 July 91

Approved For _____
Special Agent _____
BUREAU _____
Underground _____
Investigation _____
By _____
Distribution _____
Reliability _____
Valid and/or _____
Special _____
A-1

1. DATA SHEET

CONTAINER

Type: Box
UN Code: 4C1
Nomenclature: Box, Wirebound, Packing, Ammunition, for Charge,
Demolition, M112
Specification Number: Type II, Class 1, Grade A, Mil-B-46506
Drawing Number: 8876127
Material: Wood and wire
Gross Weight: 47.0 pounds
Outside Dimensions: 13 3/4 in. x 11 9/16 in. x 7 15/16 in.
Inside Dimensions: 11 3/8 in. x 10 7/16 in. x 6 15/16 in.

PRODUCT

Name: Charge, Demolition, M112
Drawing Number: 9204248
United Nations Number: 0048
Physical State: Solid
Amount per Container: 30

2. BACKGROUND, TESTS, AND RESULTS

Reference the following documents:

- a. United Nations Transport of Dangerous Goods, Sixth Edition
- b. Federal Register dated December 21, 1990
- c. Federal Register Notice dated February 21, 1991

Instead of testing the specific container used for the M112 Demolition Charge, wirebound boxes built to the same specification, but with the following weight and dimensions were tested.

Gross Weight: 87 lb.
Inside Dimensions: 13 in x 10 7/16 in x 6 15/16 in

This falls within the guidelines for analogy IAW Variation III of Reference 2c.

A Stacking Test was conducted on 3 containers with a weight of 2500 pounds for 24 hours. This weight exceeds the minimum requirement of a weight equivalent to a 10 foot stack height which is 1314 pounds.

A Loose Cargo Test was conducted IAW with the Federal Register on the same 3 containers. The packages were tested at a vibration table frequency such that the bottom of the packages was raised 1/2 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 indicate that there was no leakage or spillage of the containers following any of the tests conducted, and as such, meets the requirements of the Federal Register and The United Nations Transport of Dangerous Goods.