



AD-A199 709 DOCUMENTATION PAGE

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1b RESTRICTIVE MARKINGS				
2a. SECURITY CLASSIFICATION AUTHORITY	3 DISTRIBUTION/AVAILABILITY OF REPORT			
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE				
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6c. ADDRESS (City, State, and ZIP Code) U.S. Army Armament Research Development Engineering Center Picatinny Arsenal, NJ 07806-5000	7b. ADDRESS (City, State, and ZIP Code)			
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	PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.	WORK UNIT ACCESSION NO.
11. TITLE (Include Security Classification) Performance Oriented Packaging Testing of Cartridge, 30mm. (U)				
12. PERSONAL AUTHOR(S) Anthony D'Angelo				
13a. TYPE OF REPORT Final	13b. TIME COVERED FROM _____ TO _____	14. DATE OF REPORT (Year, Month, Day) 88-09-07	15. PAGE COUNT 2	
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, 30mm Metal Container	
19. ABSTRACT (Continue on reverse if necessary and identify by block number)				
This report contains the testing and test results performed on the 30mm cartridges. Packed 10 strips/metal container, 11 cartridges/strip (110 cartridges total).				
<p>DTIC SELECTED SEP 15 1988</p>				
20 DISTRIBUTION/AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT <input type="checkbox"/> DTIC USERS			21 ABSTRACT SECURITY CLASSIFICATION Unclassified	
22a. NAME OF RESPONSIBLE INDIVIDUAL Anthony D'Angelo		22b TELEPHONE (Include Area Code) 201-724-4976	22c OFFICE SYMBOL SMCAR-AEP	

1. DATA:

Container:

Type: Container, Steel, with Removable Cover
 UN Code: 4A1
 Nomenclature: Shipping & Storage Container, Cartridge: 30mm XM592
 Specification Number: MIL-S-50312
 Drawing Number: 10542565
 Material: Steel
 Capacity: 38.1 kg (84 lbs.)
 Dimensions: 47.2 cm x 24.1 cm x 37.1 cm (18 19/32 x 9 1/2 x 14 19/32 in.)
 Gross Weight: 49.9 kgs (110 lbs.)

Product:

Name: Cartridge, 30mm
 Drawing Number: 12910289
 United Nations Number: 0321,
 United Nations Packing Group: II
 Physical State: Solid
 Amount per Container: 110 (10 strips w/11 cartridges each)

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2. BACKGROUND:

This report contains the testing and test results performed on the 30mm cartridge. The XM592 container (PN 10542565) will pack nine different types of 30mm cartridges in accordance with drawing no. 12902718. Since all nine types are packed identically and have the same weight, the inert 30mm cartridge was used for the Performance Oriented Packaging certification. Test were performed in accordance with Performance Oriented Packaging test regulations.

3. TEST:

Containers were dropped once each from 1.2 meters (4 feet). The containers were dropped on a 3 inch solid steel plate reinforced by 18 inches of crushed rock in 5 different orientations. The orientations were as follows:

- Bottom
- Top
- Side, long
- Side, short
- Bottom corner

All drops were conducted at ambient temperature.

4. RESULTS:

The containers passed all tests since none of the contents were discharged. They are considered safe for international transportation in accordance with Performance Oriented Packaging regulations.

5. REFERENCED MATERIAL:

- A. United Nations, "Transport of Dangerous Goods," 4th Edition.