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 88-06-07 TO

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

88-09-07

15. PAGE COUNT

2

16. SUPPLEMENTARY NOTATION

This report contains the testing and test results performed on the 30mm cartridges. Packed 10 strips/metal container, 11 cartridges/strip (110 cartridges total).

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

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).
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)

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: