Performance Oriented Packaging Testing of Cartridge, 120mm, M830

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Final

FROM  TO

This report contains the testing and test results performed on the M830 cartridge, 120mm (packed 1 cartridge per metal container).
1. **DATA**

**CONTAINER:**

Type: Drum  
UN Code: 1A2  
Nomenclature: Container, Ammo, Metal  
Specification Number: MIL-C-70478  
Drawing Number: 9386831  
Material: Steel  
Capacity: 57.4 lbs (26.0 kg)  
Dimensions: 44.50 in. x 7.75 in. x 7.75 in. (113 cm x 19.7 cm x 19.7 cm)  
Gross Weight: 75.4 lbs (34.2 kg)

**PRODUCT:**

Name: Cartridge, 120mm, HEAT-MP-T, M830  
Drawing Number: 12526622  
United Nations Number: 0321  
United Nations Packing Group: II  
Physical State: Solid  
Amount per Container: 1 Cartridge

2. **BACKGROUND:**

This report contains the testing and test results performed on the M830 Cartridge. The metal container (PN 9386831) contains 1 cartridge and is packed in accordance with drawing no. 12630718. Tests were performed in accordance with TECOM Safety Certification Tests which are more severe than Performance Oriented Packaging test regulations.

3. **TEST:**

**DROP:**

Containers were dropped twice each from 2.1 meters (7 feet). The containers were dropped on 3 inch solid steel plate reinforced by 18 inches of crushed rock in 5 different orientations. Orientations were as follows:

- Bottom
- Top
- Side
- Bottom Corner
- Top Corner

A total of sixty containers were tested at -46°C and +63°C.
LOOSE CARGO VIBRATION:

Loose Cargo Vibration test was performed on 60 containers for 1/2 hour each, after previously being subjected to secure cargo vibration for 6 hours. The frequency & input applied (1 in. Double Amplitude at 5 Hz) is considerably more severe than the values specified for POP certification. Therefore the requirements for this testing were met.

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:


b. Federal Register Part II