THE REPORT CONTAINS THE TEST RESULTS PERFORMED ON THE CHARGE, PROPELLING 155MM: XM230 IN PAl03 CONTAINER.
(PACKED 5 CHARGE PROPELLING 155MM, XM230 IN ONE PAl03 CONTAINER)
Statement A per telecon Burton Lohnstein
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NWW 10/1/91

1. DATA:

Container:

Type: Container, Metal
UN Code: 1A2
Nomenclature: Container, Ammunition, Metal: PA103
Specification Number: MIL-C-63461
Drawing Number: 9349398
Material: Steel
Capacity: 12.7 kg (28 lbs)
Dimensions: 19.0 cm x 19.0 cm x 96.0 cm (7.49 in x 7.49 in x 37.99 in)
Gross Weight: 22 kg (48.5 lbs)

Product:

Name: Charge, Propelling, 155MM XM230
Drawing Number: 12945131
United Nations Number: 0242
United Nations Packing Group: II
Physical State: Solid
Amount per Container: 5 XM230 Propelling Charges

2. BACKGROUND:

This report contains the testing and test results performed on the XM230 Propelling Charge in PA103 Container. The metal drum (container) PN9349398 packs 5 charge propelling 155MM XM230 in accordance with drawing 12937952 (3 sheets). The test performed exceeded the Performance Oriented Packaging test regulations.

3. TEST:

a. Fourteen containers were vibrated for 30 minutes at elevated temperature (either -60 degrees F or +145 degrees F) and 30 minutes at ambient (+70 degrees F) temperature. Each container was vibrated in accordance with POP test requirements for a total of 60 minutes.

b. Fourteen containers were dropped once each from 1.8 meters (7 feet) on a 5-inch solid steel plate reinforced by 31 inches of concrete. The most vulnerable orientations are top and top 45 degrees. The orientations, quantities and temperatures tested at are as follows:

<table>
<thead>
<tr>
<th>Orientation</th>
<th>Containers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top</td>
<td>3</td>
</tr>
<tr>
<td>Top 45 Deg</td>
<td>3</td>
</tr>
<tr>
<td>Bottom</td>
<td>2</td>
</tr>
<tr>
<td>Bottom 45 Deg</td>
<td>2</td>
</tr>
<tr>
<td>Side</td>
<td>2</td>
</tr>
<tr>
<td>Side 45 Deg</td>
<td>2</td>
</tr>
</tbody>
</table>

14 containers
3. TEST (CONTINUED)

c. Three containers were subjected to a 48 hour stacking test utilizing T. Olsen testing machine using a scale value of 2.5 pounds per increment. An initial load of 115 pounds was applied and then increased to 1140 pounds which was maintained for 46 hours. After 48 hours, no change in load was observed and no degradation of the three containers was observed.

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. REFERENCE MATERIAL: