This report contains the testing and test results performed on the Linked 25mm cartridges. Packed 50 rounds per wood box.
TITLE: PERFORMANCE ORIENTED PACKAGING TESTING OF CARTRIDGE, 25MM LINKED AMMUNITION PACKED 50 ROUNDS PER WOOD BOX

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PERFORMING ACTIVITY: ARDEC

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DATE: 91-05-17

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1. DATA:

CONTAINER:

TYPE: BOX, WOOD  
UN CODE: 4C1  
SPECIFICATION NUMBER: MIL-B-2427  
MATERIAL: WOOD  
CAPACITY: 42.2 LITERS  
DIMENSIONS: 72.4cm x 24.8cm x 23.5cm (28 1/2" x 9 3/4" x 9 1/4")  
GROSS WEIGHT: 40 KG (88 LBS)

PRODUCT:

NAME: 25MM LINKED APDS-T M791 AMMUNITION  
DRAWING NUMBER: 12013533  
UNITED NATIONS NUMBER: 0339  
UNITED NATIONS PACKING GROUP: II  
UNITED NATIONS NOMENCLATURE: CARTRIDGES FOR WEAPONS, INERT PROJECTILE  
PHYSICAL STATE: SOLID  
AMOUNT PER CONTAINER: 50 ROUNDS W/ LINKS  
NSN: 1305-01-095-6014

NAME: 25MM LINKED HEI-T M792 AMMUNITION  
DRAWING NUMBER: 12013230  
UNITED NATIONS NUMBER: 0321  
UNITED NATIONS PACKING GROUP: II  
UNITED NATIONS NOMENCLATURE: CARTRIDGES FOR WEAPONS  
PHYSICAL STATE: SOLID  
AMOUNT PER CONTAINER: 50 ROUNDS W/ LINKS  
NSN: 1305-01-094-7016

NAME: 25MM LINKED TP-T M793 AMMUNITION  
DRAWING NUMBER: 12013224  
UNITED NATIONS NUMBER: 0339  
UNITED NATIONS PACKING GROUP: II  
UNITED NATIONS NOMENCLATURE: CARTRIDGES FOR WEAPONS, INERT PROJECTILE  
PHYSICAL STATE: SOLID  
AMOUNT PER CONTAINER: 50 ROUNDS W/ LINKS  
NSN: 1305-01-095-0248

NAME: 25MM LINKED HEI-T MK210 MODO AMMUNITION  
DRAWING NUMBER: 12013230  
UNITED NATIONS NUMBER: 0321  
UNITED NATIONS PACKING GROUP: II  
UNITED NATIONS NOMENCLATURE: CARTRIDGES FOR WEAPONS  
PHYSICAL STATE: SOLID  
AMOUNT PER CONTAINER: 50 ROUNDS W/ LINKS  
NSN: 1305-01-198-2191
NAME: 25MM LINKED TPDS-T M910 AMMUNITION
DRAWING NUMBER: 12556500
UNITED NATIONS NUMBER: 0328
UNITED NATIONS PACKING GROUP: II
UNITED NATIONS NOMENCLATURE: CARTRIDGES FOR WEAPONS, INERT PROJECTILE

PHYSICAL STATE: SOLID
AMOUNT PER CONTAINER: 50 ROUNDS W/ LINKS
NSN: 1305-01-298-6414

2. BACKGROUND:

THIS REPORT CONTAINS THE TESTING AND TEST RESULTS PERFORMED ON LINKED 25MM AMMUNITION PACKED IN A WOOD BOX, MANUFACTURED IN ACCORDANCE WITH MIL-B-2427. FIFTY (50) CARTRIDGES WERE PACKED IN A FIBERBOARD BOX (12013704) AND THIS FIBERBOARD BOX WAS PACKED IN ONE WOOD BOX (12013704) ACCORDING TO DRAWING 12013671. THIS PACK IS SUBMITTED FOR PERFORMANCE ORIENTED PACKAGING CERTIFICATION.

3. TEST:

EACH OF THE THREE CONTAINERS TESTED WERE DROPPED SIX TIMES AT A HEIGHT .91 METERS (3 FEET) IN THE FOLLOWING ORIENTATIONS: TOP, BOTTOM, LONG SIDE (FRONT FACE), LEFT END, BOTTOM RIGHT EDGE, AND TOP LEFT REAR CORNER. IN ADDITION EACH OF THE THREE CONTAINERS WAS DROPPED ONCE AT A HEIGHT OF 2.1 METERS (7 FEET) ON ITS BASE IN LIEU OF UN REQUIREMENTS OF 1.2 METERS (4 FEET). THE CONTAINERS WERE DROPPED ON A REINFORCED CONCRETE SURFACE. THIS TEST IS MORE SEVERE THAN THE UN REQUIREMENTS AS THE CONTAINER EXPERIENCES MULTIPLE IMPACTS IN A VARIETY OF ORIENTATIONS AND IS ALSO DROPPED ONCE AT A HEIGHT OF 7 FEET EXCEEDING THE UN REQUIREMENT.

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. FEDERAL REGISTER, "49 CFR PART 107, 1991"

6. BASED ON THE ABOVE EQUIVALENT POP TESTING, THE FOLLOWING POP SYMBOL HAS BEEN APPLIED TO CONTAINERS MANUFACTURED IAW DRAWING 12013671 & MIL-B-2427.

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\text{4C1/Y40/S[*]} \text{ LAST TWO DIGITS OF YEAR PACKED}
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\text{USA/DOD/AYD}
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