

MIL-STD-652D (AR)
NOTICE 3
27 October 1982

MILITARY STANDARD
PROPELLANTS, SOLID FOR CANNONS
REQUIREMENTS AND PACKING

To all Holders of MIL-STD-652D (AR)

1. The following pages of MIL-STD-652D (AR) have been revised and supersede the pages listed:

| <u>New Page</u> | <u>Date</u> | <u>Superseded Page</u> | <u>Date</u> |
|-----------------|-----------------|------------------------|-------------|
| 6 | 27 October 1982 | 6 | 13 Mar 81 |
| 7 | 27 October 1982 | 7 | 5 Oct 79 |
| 8 | 27 October 1982 | 8 | 5 Oct 79 |

2. Retain this notice and insert before Table of Contents.

3. Holders of MIL-STD-652D (AR) will verify that page changes and additions indicated above have been entered. This notice page will be retained as a check sheet. This issuance, together with appended pages, is a separate publication. Each notice is to be retained by stocking points until the Military Standard is completely revised or canceled.

Custodian:
Army-AR

Preparing Activity:
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(Project 1376-A205)

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4.3.1.1 Immediately prior to filling all containers listed in 4.3.1 shall withstand a 1/2 to 1 psi air pressure test for a minimum of 15 seconds without leakage. The containers shall be tested by a method satisfactory to the contracting officer's representative.

4.3.1.2 When replacing cover gaskets for the M2 Steel Box, Dwg. 76-4-55, solid rubber gaskets as described on Dwg. 138441 for the MK7 Packing Box (Navy) may be used in lieu of Gasket Part No. 76-4-55H. Solid rubber gaskets shall comply with Specification MIL-R-3065 and RN-715 or RS-715 of Standard MIL-STD-417.

4.3.1.3 Calibration. The amount of propellant selected for use as Master Calibration Lot or Reference Calibration Lot in accordance with TECOM Regulation 702-1 shall be packed in Level A containers (see 4.3.1).

4.3.1.4 Level A packing. The propellant M2, M5, M9, M10, M26 and M26E1 shall be packed in Level A containers, unless otherwise specified by the Contracting Office (see 4.3.1).

4.3.2 Level B. The propellant shall be packed as specified in 4.3.1.

4.3.3 Level C. The propellant shall be packed in fiber drums as described in 4.3.3.1 only when intended for assembly into an end item or subassembly within twelve months of the shipping date. Fiber drums are approved for truck or trailer on flat car (TOFC) shipment only and for storage not exceeding two years.

4.3.3.1 Fiber drums. Fiber drums shall comply with DOT Specification 21C, 250 pounds, MINIMUM, Code of Federal Regulations, Title 49, parts 100-199, and the following additional requirements. Size shall be 15 1/2 + 1/2 inches in diameter by 26 + 1 inches in height, inside dimensions. The drum shall have a 24 gauge steel cover with rubber gasket, lever locking band with provision for sealing wire and wide bottom chime (2 inch minimum formed height). All metal parts shall be hot-dipped galvanized. Top and bottom chime shall be 24 gauge steel and shall be welded. The body shall be wound with a hot melt or thermoplastic adhesive. The bottom shall be a waterproof laminated fiberboard. Body and bottom disc shall also have a laminated aluminum foil barrier. The bottom crimp shall be caulked. The finished drum with closure assembled shall be moistureproof and leak tight. The fiber drums may be reused if the drums comply with the inspection requirements of 4.4.1.3.

4.3.3.2 Alternative fiber drum. Alternatively, fiber drums shall be constructed as specified in 4.3.3.1 except that a layer of aluminum foil 0.010 thick shall be laminated to the inside of the body and the aluminum foil between the layers of Kraft paper in the body shall not be required.

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4.3.3.3 Marking. Drums shall be marked on the sidewall only with the same information as required for the side of the box by Dwg. 8858848. Alternatively, marking may be placed on a commercial water resistant label, securely and completely adhered to the side wall. The label stock shall be white, tan or kraft color. All marking shall be with black ink using letters approximately one half inch high.

4.3.4 Palletization. Level A shipments shall be palletized when specified by the procuring activity. Palletization is not required for Level B shipments.

4.4 Sampling for testing

4.4.1 Sampling plans and procedures for the following classifications of defects shall be in accordance with Standard MIL-STD-105. Standard MIL-STD-1235 may be used if approved by the procuring activity. Also, at the option of the procuring activity, AQL's and sampling plans may be applied to the individual characteristics listed using an AQL of 0.40 percent for each major defect and an AQL of 0.65 percent for each minor defect.

4.4.1.1 Container prior to filling (as applicable) (see Drawings 76-4-46, 76-4-53, 76-4-56, 138439, 7549033, and 9256486.

| Categories | Defects | Method of Inspection |
|------------|---|----------------------|
| Critical: | None defined | |
| Major: | Class AQL 1.00 percent | |
| 101 | Foreign material, propellant or corrosion | Visual |
| 102 | Gasket missing or damaged | Visual |
| 103 | Holes in cover or end | Visual |
| 104 | Locking device damaged | Visual |
| 105 | Bare areas on exterior coating of metal container, the sum of which is in excess of 1/2 square inch | Visual |

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Minor: Class AQL 6.50 percent

| | | |
|-----|---|--------|
| 201 | Protective finish incomplete | Visual |
| 202 | Wood split terminating at edge of board | Visual |
| 203 | Board broken or piece missing | Visual |
| 204 | Loose boards | Visual |
| 205 | Nails or staples protruding or loose | Visual |
| 206 | Split boards insufficiently nailed | Visual |
| 207 | Wood rot | Visual |
| 208 | Large dents or damaged seam | Visual |

4.4.1.2 Fiber drums before filling

| Categories | Defect | Method of Inspection |
|------------------------|--------|----------------------|
| Critical: None defined | | |

Major: Class AQL 1.00 percent

| | | |
|-----|--|--------|
| 101 | Foreign material | Visual |
| 102 | Gasket missing or damaged | Visual |
| 103 | Holes in cover or end | Visual |
| 104 | Locking device damaged | Visual |
| 105 | Bare area on exterior coating of the chime. The sum of which is in excess of 1 1/2 square inch | Visual |

Minor: AQL 0.65 percent

| | | |
|-----|---|--------|
| 201 | Poor workmanship, such as: nicks, dents, body bulged or scratches | Visual |
|-----|---|--------|

4.4.1.3 Applicable to reusable fiber drums before filling

Critical: None defined

Major: 100% Inspection

| | | |
|-----|---|--------|
| 101 | Top chime bent, deformed or cut | Visual |
| 102 | Bottom chimes collapsed (annular groove closed or partially closed) or deformed | Visual |
| 103 | Body bulged, cut or dented | Visual |
| 104 | Gasket in cover missing or damaged | Visual |
| 105 | Cover bent, creased or deformed in gasket area or around edge | Visual |
| 106 | Locking ring damaged so as to prevent closing | Visual |
| 107 | Foreign material, propellant or corrosion | Visual |