

MIL-D-43703B
AMENDMENT-2
13 June 1984
SUPERSEDING
AMENDMENT-1
21 MARCH 1979

MILITARY SPECIFICATION

DRUMS, SHIPPING, AND STORAGE, MOLDED POLYETHYLENE

This amendment forms a part of Military Specification MIL-D-43703B, dated 10 August 1977, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 2

- * 2.1, under "STANDARDS FEDERAL": Delete in entirety.

Under "STANDARDS MILITARY": Add the following: MIL-STD-147-Palletized Unit Loads.

- * 2.2, after line 9: Add the following: "D 3951-Standard Practice for Commercial Packaging".

PAGE 3

- * 2.2, lines 3 through 11: Delete.

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- * 3.2, Delete third through sixth sentences and substitute: "A removable head is not authorized. The 5 gallon (19L) drums shall be furnished with one or two carrying handles. The 15 gallon (57L) drums shall be furnished with one or two handles on the top or without handles. The 30 and 55 gallon (114L and 208L) drums shall be fabricated with indented or recessed side walls or with special formed chimes."

PAGE 5

3.2.1.3: Delete entirely and substitute:

"3.2.1.3 Torque indicating or torque limiting plug wrench. When specified (see 6.2), a commercial torque indicating or torque limiting plug wrench made to fit the drum plugs shall be provided."

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3.3, line 6: Add the following between the second and third sentences:
"Also, the manufacturer's recommended closure torque range for prevention of leakage from threaded closure shall be durably marked by means of embossing, labeling, stenciling, lithographing, silk screening or stamping on the drum".

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- * 4.2.2, line 4: Delete "compenents" and substitute "components".

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TABLE 1, under "Examine" column: Delete "Plug wrench (when required)" and substitute "Plug wrench, torque indicating or torque limiting (when required)".

- * 4.2.3, first sentence: Delete and substitute: "The drums shall be inspected for dimensions of components and for capacity." Lines 4 through 6: Delete last sentence and substitute:

"The capacity of the drum shall be determined by pouring a measured volume of fresh water into the drum until the specified filled level is attained, and record the total volume poured in. To determine the filled level of the drum, pour a measured volume of fresh water equal to the specified capacity into the drum. Observe and record the position of the liquid level. To determine the outage, measure the additional volume of water (Vo) required to completely fill the drum after it is filled to liquid capacity. Calculate the outage using the following formula:

$$\text{Outage in percent of liquid capacity} = \frac{100 \times V_o}{\text{Liquid Capacity}}$$

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- * 4.3.1 and Table III: Delete and substitute:

"4.3.1 Palletization examination. An examination shall be made to determine that the palletization complies with the section 5 requirements. Defects shall be scored in accordance with the list below. The sample unit shall be one palletized unit load fully packaged. The lot size shall be the number of palletized unit loads in the inspection lot. The inspection level shall be S-1 and the AQL, expressed in terms of defects per hundred units, shall be 6.5.

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<u>Examine</u>	<u>Defect</u>
Finished dimensions	Length, width, or height exceeds specified maximum requirements
Palletization	Pallet pattern not as specified Load not bonded with required straps as specified Interlocking of loads not as specified
Weight	Exceeds maximum load limits
Marking	Omitted; incorrect; illegible; of improper size, location, sequence, or method of application."

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- * 5.1: Delete "level C" and substitute "Commercial"

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5.1.1: Delete and substitute:

- * "5.1.1 Commercial packing. Drums shall be packed in accordance with ASTM D-3951."

- * 5.2: Delete and substitute:

"5.2 Palletization. When specified (see 6.2), drums (except for 55 gallon (208 L) drums) packed as specified in 5.1, shall be palletized on a 4-way entry pallet in accordance with load type Ia of MIL-STD-147. Each prepared load shall be bonded with primary and secondary straps in accordance with the bonding means K and L or film bonding O or P. Pallet patterns shall be in accordance with the appendix of MIL-STD-147. Interlocking of loads shall be effected by reversing the pattern of each course. If the container is of a size which does not conform to any of the patterns specified in MIL-STD-147, the pallet pattern used shall first be approved by the contracting officer."

- * 5.3, line 2, after "MIL-STD-129": Add "or ASTM D 3951, as applicable."

Changes from previous issue. The margins of this amendment are marked with an asterisk to indicate where changes - (addition, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience

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only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:

Army - GL
Navy - SA
Air Force - 69

Preparing activity:

Army - GL
Project No. 8110-0272

Review activities:

Army - EA, MD, ME
Navy - AS
Air Force - 99
DLA - GS

User activity:

Army - AR