



Standard Practices for Packaging/Packing of Aluminum and Magnesium Products¹

This standard is issued under the fixed designation B660; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the U.S. Department of Defense.

1. Scope*

1.1 These practices describe methods of packaging/packing aluminum and magnesium products, in preparation for storage or shipment, both foreign and domestic. Assuming proper and normal handling in transit, these practices are designed to deliver the products to their destination in good condition. For DoD redistribution, see Supplementary Requirements.

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3 Aluminum and magnesium products must be preserved and packed so as to be adequately protected from possible damage during shipment and storage. Major damage types are:

1.3.1 Mechanical, including bending, crushing, denting, scratching, or gouging during handling and storage; and abrasions resulting from vibration during transport of the material.

1.3.2 Corrosion, or water stain, resulting from exposure of packed material to water, either externally applied, or as condensate caused by temperature variations in a humid atmosphere.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

D779 Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method (Withdrawn 2011)³

D1732 Practices for Preparation of Magnesium Alloy Surfaces for Painting

D1974 Practice for Methods of Closing, Sealing, and Reinforcing Fiberboard Boxes

D3950 Specification for Strapping, Nonmetallic (and Joining Methods)

D3951 Practice for Commercial Packaging

D3953 Specification for Strapping, Flat Steel and Seals

D4727/D4727M Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes

D5168 Practice for Fabrication and Closure of Triple-Wall Corrugated Fiberboard Containers

D5486/D5486M Specification for Pressure-Sensitive Tape for Packaging, Box Closure, and Sealing

F1667 Specification for Driven Fasteners: Nails, Spikes, and Staples

2.2 ANSI Standard:

ANSI/AHA A135.4 Basic Hardboard⁴

2.3 Federal Specifications:⁵

A-A-1249 Paper, Wrapping, Tissue

A-A-1671 Tape, Gummed (Paper, Reinforced, Asphalt Laminated)

A-A-55057 Panels, Wood/Wood-Based; Construction and Decorative

PPP-B-566 Box, Folding, Paperboard

PPP-C-96 Can, Metal, 28 Gage and Lighter

PPP-D-705 Drum, Shipping and Storage: Steel 16 and 30 Gallon Capacity

PPP-D-723 Drum, Fiber (inactive for new design)

PPP-D-729 Drum, Shipping and Storage: Steel, 55 Gallon

PPP-P-704 Pails, Metal: (Shipping, Steel, 1 through 12, Gallons)

PPP-T-495 Tubes, Mailing, and Filing

¹ These practices are under the jurisdiction of ASTM Committee B07 on Light Metals and Alloys and are the direct responsibilities of Subcommittee B07.03 on Aluminum Alloy Wrought Products.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ The last approved version of this historical standard is referenced on www.astm.org.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

⁵ Available from Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, <http://www.dodssp.daps.mil>.