



## Standard Practices for Packaging/Packing of Aluminum and Magnesium Products<sup>1</sup>

This standard is issued under the fixed designation B 660; 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 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 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:

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

1.2.2 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.

NOTE 1—A complete metric companion to Practices B 660 is being developed—Practices B 660M; therefore, no metric equivalents are presented in these practices.

1.3 *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:

D 779 Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry-Indicator Method<sup>2</sup>

D 1732 Practices for Preparation of Magnesium Alloy Surfaces for Painting<sup>3</sup>

D 1974 Practice for Methods of Closing, Sealing, and

#### Reinforcing Fiberboard Boxes<sup>2</sup>

D 3950 Specification for Strapping, Nonmetallic (and Joining Methods)<sup>2</sup>

D 3951 Practice for Commercial Packaging<sup>2</sup>

D 3953 Specification for Strapping, Flat Steel and Seals<sup>2</sup>

D 4727/D 4727M Specification for Corrugated and Solid Fiberboard Sheet Stock (Container Grade) and Cut Shapes<sup>2</sup>

D 5168 Practice for Fabrication and Closure of Triple-Wall Corrugated Fiberboard Containers<sup>2</sup>

D 5486/D 5486M Specification for Pressure-Sensitive Tape for Packaging, Box Closure, and Sealing<sup>2</sup>

F 1667 Specification for Driven Fasteners: Nails, Spikes and Staples<sup>4</sup>

#### 2.2 ANSI Standard:

ANSI/AHA A135.4 Basic Hardboard<sup>5</sup>

#### 2.3 Federal Specifications:<sup>6</sup>

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

#### 2.4 Federal Standards:<sup>6</sup>

APA-PS1 U.S. Product Standard (For Construction and Industrial Plywood)

FED-STD-101 Preservation, Packaging and Packing Materials: Test Procedure

#### 2.5 Military Specifications:<sup>6</sup>

<sup>1</sup> 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.

Current edition approved Oct. 10, 2002. Published January 2003. Originally published as B 660 – 79. Last previous edition B 660 – 96 (2002).

<sup>2</sup> Annual Book of ASTM Standards, Vol 15.09.

<sup>3</sup> Annual Book of ASTM Standards, Vol 02.05.

<sup>4</sup> Annual Book of ASTM Standards, Vol 01.08.

<sup>5</sup> Available from American National Standards Institute, 25 W. 43rd St., 4th Floor, New York, NY 10036.

<sup>6</sup> Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, Attn: NPODS.

