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Standard Practices for Packaging/Packing of Aluminum and Magnesium Products¹

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 $Method^2$
- D 1732 Practices for Preparation of Magnesium Alloy Surfaces for Painting³
- D 3950 Specification for Strapping, Nonmetallic (and Joining Methods)²

D 3951 Practice for Commercial Packaging²

- D 3953 Specification for Strapping, Flat Steel and Seals²
- 2.2 ANSI Standard:

ANSI/AHA A135.4 Basic Hardboard⁴

- 2.3 Federal Specifications:⁵
- FF-N-105 Nail, Brads, Staples and Spikes, Wire, Cut and Wrought
- NN-P-530 Plywood, Flat Panel
- UU-P-553 Paper, Wrapping, Tissue
- VV-L-800 Lubricating Oil, General Purpose Preservative
- PPP-B-566 Box, Folding, Paperboard
- PPP-B-636 Box, Shipping, Fiberboard
- PPP-B-640 Box, Fiberboard, Corrugated, Triple Wall
- 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
- PPP-D-729 Drum, Shipping and Storage: Steel, 55 Gallon
- PPP-F-320 Fiberboard, Corrugated and Solid, Sheet Stock (Container Grade) and Cut Shapes
- PPP-P-704 Pails, Metal: (Shipping, Steel, 1 through 12, Gallons)
- PPP-T-45 Tape, Gummed Paper, Reinforced and Plain, For Sealing and Securing
- PPP-T-60 Tape, Packaging, Waterproof
- PPP-T-76 Tape, Pressure-sensitive Adhesive Paper (For Carton Sealing)
- PPP-T-495 Tubes, Mailing, and Filing
- PPP-V-205 Veneer, Paper Overlaid, Container Grade
- 2.4 Federal Standards:⁵
- Fed. Std. No. 101 Preservation, Packaging and Packing Materials: Test Procedure
- PS 1-74 U.S. Product Standard (For Construction and Industrial Plywood)
- 2.5 Military Specifications:⁵
- MIL-L-7870 Lubricating Oil, General Purpose, Low Temperature
- MIL-C-11796 Corrosion Preventive Compound, Petrolatum, Hot Application

MIL-C-16173 Corrosion Preventive Compound, Solvent

*A Summary of Changes section appears at the end of this standard.

¹ These practices are under the jurisdiction of ASTM Committee B-7 on Light Metals and Alloys and are the direct responsibilities of Subcommittee B07.03 on Aluminum Alloy Wrought Products.

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² Annual Book of ASTM Standards, Vol 15.09.

³ Annual Book of ASTM Standards, Vol 02.05.

⁴ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.

⁵ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

Cutback, Cold Application

MIL-P-17667 Paper, Wrapping, Chemically Neutral (Non-Corrosive)

- 2.6 Military Standard:⁵
- MIL-STD-129 Marking for Shipment and Storage

2.7 Other Standards:⁶

Aluminum Standards and Data-Protective Oil for Aluminum

3. Classification

3.1 *Levels of Protection*—The following levels of protection apply equally to preservation and packing.

3.1.1 *Level A*—The degree required for protection against the most severe conditions known or anticipated to be encountered during shipment, multiple rough handling, and intransit storage.

3.1.2 *Commercial Packaging*—The degree required for protection of material during shipment from supplier to user for immediate use or limited storage in a dry, heated storage facility. The methods and materials employed by the supplier to satisfy the requirements of the commercial distribution system to provide protection against corrosion, deterioration, and damage during shipment to a user may be used.

4. Terminology

4.1 Definitions:

4.1.1 *corner protector*—protective material placed under ties to protect edges of a package.

4.1.2 *deckboard*—piece of lumber at right angles to stringers or skids of a pallet to form a bearing surface.

4.1.3 *filler*—piece of material placed in a package to fill void space for the purpose of squaring out the contents.

4.1.4 *framing member*—parts forming the main structure of a crate.

4.1.5 gross weight—bare item weight and the weight of all packaging and packing materials.

4.1.6 *header*—member of skid-type base used to join the ends of two or more skids and provide added strength to the base.

4.1.7 *interleaving*—placement of a sheet of protective material between two adjacent pieces of metal.

4.1.8 net weight—bare item weight.

4.1.9 *nominal*—referring to lumber size, rough sawn commercial size of soft wood lumber common to the industry.

4.1.10 *splice*—to unite or join the ends of material such as lumber, plywood, or paper overlaid veneer.

4.1.11 *tension tied*—securement applied with mechanical tools.

5. General Requirements

5.1 *Materials, Methods, and Containers*—Materials, methods, and containers shall conform to the requirements of this standard. Those exceeding the requirements may be substituted as negotiated by purchaser and producer or supplier.

5.1.1 Materials not covered by applicable specifications or not specifically described herein shall be of high quality and shall be compatible with and protect the contents.

5.1.2 Splicing Requirement—When container members must be spliced to obtain the required length or width, the adjacent edges of the two pieces being spliced shall be butt-jointed as specified in 5.1.2.1 and each piece fastened to the splice board. The fastening shall conform to the requirements specified for construction of the panels being spliced. Nails must be clinched.

5.1.2.1 Splice boards shall be applied to extend on each side of the joint at least two times the width of and the same thickness as the box boards.

5.1.3 The inside dimensions of boxes shall be commensurate with the size of the item.

5.2 Internal Packaging Materials:

5.2.1 *Material Compatibility*—Internal packaging materials shall not adversely affect the contents.

5.2.2 *Blocking and Bracing*—Articles not completely filling the shipping container shall be blocked, braced, fastened, or otherwise secured. Articles having projecting parts that may be broken or may puncture the container shall be rigidly supported, suspended, or otherwise protected. Clearance of at least 1 in. shall be provided between projecting parts and the adjacent inside face of the container. Blocking and bracing shall be prevented from coming in direct contact with any unprotected surface of the item by use of suitable cushioning material.

5.3 Handling:

5.3.1 *General*—Containers and pallets in their shipping configuration shall be provided with lifting and hoisting provisions commensurate with their weight, size, and intended mode of transportation to ensure safe and efficient movement. 5.3.2 *Hoisting*—Convenient means shall be provided on all shipping containers (except Fig. 1, Fig. 2, Fig. 3, and Fig. 4) and pallets weighing more than 200 lb gross which will permit hoisting by attaching suitable slings at the bottom of the containers and pallets.

5.3.3 *Forklift Truck Compatibility*—Unless otherwise specified herein and except Fig. 1, Fig. 2, Fig. 3, and Fig. 4, boxes, containers, and pallets grossing over 200 lb must be capable of being handled from at least two sides by forklift trucks. For DoD use, standard 40 by 48 in. pallets must have four-way forklift entry. Openings shall be a minimum of 3 in. high and at least 20 in. apart inside-to-inside, symmetrically about the center of balance. Containers may have a single opening 40 in. wide or more to provide forklift access.

6. Detailed Requirements

6.1 *Packaging Preservation*—Packaging shall be Level A, or commercial preservation as follows:

6.1.1 *Level A*—Detailed requirements for packaging (preservation) of aluminum and magnesium products are listed alphabetically by product in Table 1. When Level A is specified, items shall be preserved in accordance with the detailed requirements outlined herein.

⁶ Available from The Aluminum Association, 818 Connecticut Ave., NW, Washington, DC 20006.





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TABLE 1 Packaging	g (Preservation) and	Packing for L	_evel A (Note—For	Commercial Packaging,	See Section 8)
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Product	Preservation (6.1.1)	Packing (Section 7) for Barrier, see Table 2	Maximum ⁴ Net Weight Per Con- tainer (7.17)	
Bar, rod and wire (cold-finished, drawn, extruded, rolled, and forged):				
Coiled, bare	AL-oiled, Mg-Chrome pickled (6.1.1.1-6.1.1.3)	Wrapped coils (Fig. 5). Wrap with one layer of Type IIB barrier.	120	
Coiled, covered	none required	Wrapped coils (Fig. 5). Wrap with one layer of Type IIB barrier.	120	
Spooled for military requirements: 5, 10, 15, 20, 30, lb per spool (other: standard commercial weights)	none required	Wooden boxes (Figs. 6-9). Boxes shall be case- lined with one layer of Type IIA barrier or two layers of Type III barrier.	300	
Straight lengths	AL-oiled, Mg-Chrome pickled (6.1.1.1-6.1.1.3)	Wooden boxes (Figs. 10-12). Boxes shall be case-lined with one layer of Type IIA barrier or two layers of Type III barrier. or	1000 ^{<i>B</i>}	
		Corrugated fiberboard boxes, Class weather- resistant (S6.1) or	300	
		Fiber-drums (7.14)	200	
Blooms and billets	See ingot			
Bus conductors (cold-finished, drawn, extruded and rolled)	See bar, straight lengths			
Cable (bare and covered):				
Size 1/0 and smaller	none required	Wrapped coils (Fig. 5). Wrap with one layer of Type IIB barrier.	(bare) 250 (covered) 200	

Product	Preservation (6.1.1)	Packing (Section 7) for Barrier, see Table 2	Maximum ^A Net Weight Per Con- tainer (7.17)	
		Reels (Fig. 13).	(bare) 1250	
Size larger than 1/0	none required	Reel (Fig. 13).	(covered) 1000 (bare) 1600 (covered) 1300	
Casting and forgings, finished.	none required	Wooden boxes (Figs. 6-9) or Style Fig. 14). Boxes and crates shall be case lined with one layer of Type IIA barrier or two layers of Type III barrier.	2000	
Castings and forgings, rough	none required	Bare bundles (Fig. 15).	1000	
Extruded profiles (metal less than 1 lb per linear foot) ^C	AL-oiled, Mg-Chrome-pickled (6.1.1.1-6.1.1.3)	 Wooden boxes (Figs. 10-12). Boxes shall be case lined with one layer of Type IIA barrier	2000	
Fittings (pipe and conduit)	AL-oiled, Mg-Chrome-pickled (6.1.1.1-6.1.1.3)	Corrugated fiberboard boxes, Class weather- resistant (56.1)	300	
E-10.E	External threads shall be covered with suitable thread protectors.	Wooden boxes (Figs. 6-9) or Style 1 crate (Fig. 14) dependent upon size of fittings. Boxes and crates shall be case lined with one layer Type IIA barrier.	100	
Coiled	Foil shall be wound on aluminum fiber or steel cores. End of coil shall be secured with pressure sensitive tape. Sheared edges shall be protected from flanges and adjacent coils with suitable edge protectors. Each coil, or coils (see 7.10) shall be wrapped with aluminum 0.001 in, thick aluminum foil.	Wooden boxes (Figs. 6-9). Coils shall be suspended by extended cores or wood dowels through the core. Core extension or dowel shall be inserted in wood flanges so that periphery of coil does not contact inner surface of box (Fig. 16). Minimum flange thickness shall be as specified in 7.10.	500	
	Foil wrap shall be a conformable wrap completely enclosing the coil or coils and edge protectors on each core or dowel (Fig. 16)	Corrugated fiberboard boxes, Class weather- resistant (S6.1) suspended as above.	300	
Flat	none required cument	Wooden boxes (Figs. 6-9). Contents shall be wrapped with one separate layer of Type IIA barrier.	500	
	ASTM B660	Corrugated fiberboard boxes, Class weather- resistant (S6.1)	300	
Forging stock S://standards.iteh.ai/ca	See castings See bar and and s/sist/c142c2c9-c	1556-4bbc-b664-3a13f26805aa/as		
Impact extrusions	none required	Wooden boxes (Figs. 6-9). Boxes shall be lined with one layer of Type IIA barrier.	700	
		Corrugated fiberboard boxes, Class weather- resistant (S6.1)	300	
Ingots: 500 lb per piece and over	none required	loose		
30–500 lb per piece	none required	Bare bundles (Fig. 17). Size of bundle straps shall be as shown in Table 3. A minimum of	3500	
Less than 30 lb per piece	none required	Pallets (Fig. 18). Size pallet straps shall be as shown in Table 3.	2500	
		or Self-palletized bundle. Interlocking ingots that are self-palletized may be shipped in strapped bundles not over 42 in. high. Bundle shall be strapped with a minimum of one ¾-in. steel strap	1500	
Grained and granulated ingot and shot	Product to be packed in wood boxes	Wooden boxes (Figs. 6-9)	500	
	(Figs. 6-9), shall be packaged in Federal Specification PPP-B-566,	or	70	
	boxes, folding, paperboard.	Federal Specification PPP-P-704 Steel Pails (7.12). Pails shall not be overpacked.		
		Federal Specification PPP-D-705 and PPP-D-729 Steel Drums (7.13). Drums shall not be overpacked. or	650	
		Federal Specification PPP-D-723 Fiber Drums (7.15). Drums shall not be overpacked	550	

Product	Preservation (6.1.1)	Packing (Section 7) for Barrier, see Table 2	Maximum ^A Net Weight Per Con- tainer (7.17)	
Paste and powder	Product to be packed in wooden boxes	Wooden boxes (Figs. 6-9).	50	
	(Figs. 6-9) shall be packaged if 1, 2, or 10 lb friction top can in accordance with Federal Specification PPP-C-96, Type V, Class 2.	Federal Specification PPP-D-705 or PPP-D-729 Steel Drums (7.13). Drums shall not be overnacked	600	
Plate: ^F				
Flat and tapered	Al see Table 4, Mg see Table 5.	Pallets (Figs. 19-22) with pallet enclosures (Fig. 23, Fig. 24, and Fig. 25). Contents shall be wrapped with one layer of Type IIA barrier or two layers of Type III barrier.	4000	
Circles	Al see Table 4, Mg see Table 5.	Pallets (Figs. 19-22) with pallet enclosures (Fig. 23, Fig. 24, and Fig. 25). Contents shall be wrapped with one layer of Type IIA barrier or two layers of Type III barrier	4000	
Floor and tread Plate and abrasive Tread plate	none required	Pallets (Figs. 19-22). Secure contents to pallet with minimum two lengthwise and two girthwise straps, size 1 ¹ /4by 0.031 in.	10 000	
Screw machine stock Sheet: ^G	See bar			
Flat and tapered 90 lb per piece or less or 15 ft in length or less	Al see Table 4, Mg see Table 5.	Pallet enclosure (Fig. 25)	4000	
		Contents of box shall be wrapped with two layers of Type IIA barrier or one layer of Type IIA barrier and one layer of Type III barrier.	(Not to exceed 200 sheets)	
Over 90 lb per piece or over 15 ft in length	Al see Table 4, Mg see Table 5.	Pallets (Figs. 19-22) with pallet enclosures (Fig. 23 and Fig. 24). Contents shall be	4000	
Coiled	Al-coiled, Mg-Chrome-pickled (6.1.1.1-6.1.1.3)	Wrapped with two layers of Type IIA barrier. Pallets (Figs. 19-22) with pallet enclosure (Fig. 24). Contents shall be wrapped with one layer of Type IIA barrier or two layers	4000	
Roofing and siding	none required	of Type III barrier. Pallets (Figs. 19-22) with pallet enclosures (Fig. 23 and Fig. 24). Contents shall be	4000	
Structural profiles (extruded and rolled) ^G Less than 150 lb per piece	ASTM B660 Al-none required. Mg-Chrome-pickled.	wrapped with one layer of Type IIA barrier.	1000 m-b660-96	
		resistant (S.1.7.1)		
150 lb per piece and over Tubular products (drawn, oxtruded, and wolded):	Al-none required. Mg-Chrome-pickled.	Loose		
Coiled	Al-oiled, Mg-oiled (6.1.1.1-6.1.1.3). Stagger wound coils shall be tied through the core in two places with twine or pressure sensitive tape. Pancake or level layer would coils shall not be tied	Style 1 crates (Fig. 14). Crates shall be case lined with one layer of Type IIA barrier.	700	
Straight lengths	Al-oiled, Mg-Chrome-pickled (6.1.1.1-6.1.1.3). When the wall thickness of tube is less than 2½ % of the outside diameter, boxes shall be lined with suitable cushioning material.	Wooden boxes (Figs. 10-12). Boxes shall be case lined with one layer of Type IIA barrier, or Corrugated fiberboard boxes Class weather- resistant (S6.1). or	300	
ANSI schedule pipe	Al-no preservative required. Mg-Chrome pickled (6.1.1.1-6.1.1.3). External threads shall be covered gith suitable protectors.	Fiber tubes (7.16). Wooden boxes (Figs. 10-12). Boxes shall be case lined with one layer of Type IIA barrier or two layers of Type III barrier.	200 800	
		Style 2 and 3 crates Fig. 26 to Fig. 27). Crates shall be case lined with one layer of Type IIA barrier.	4000	
Construction pipe	Al-no preservative required. Mg-Chrome pickled (6.1.1.1-6.1.1.3).	Fiber tubes (7.16). Same as for ANSI scheduled pipe above.	200 See Packing	

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Product	Preservation (6.1.1)	Packing (Section 7) for Barrier, see Table 2	Maximum ^A Net Weight Per Con- tainer (7.17)	
Welding and brazing rod Coiled	none required	Wrapped coils (Fig. 5). Wrap with one layer of Type IIA barrier or two layers of Type III barrier.	120	
Straight lengths, 36 in.	Package 5 lb per fiber tube with metal ends or 10 lb per fiberboard carton. 10 fiber tubes or 8 cartons shall be overpacked in a weather-resistant fiberboard carton in accordance with Federal Specification PPP-B-636. All corners and seams of boxes, including manufacturer's joint, shall be sealed with PPP-T-60, Type III or IV, Class 1, minimum 2 in, wide tape.	Wooden boxes (Figs. 6-9). Fiberboard boxes shall be overpacked in wooden boxes.	1000	
Inert gas welding electrode	1, 5, 10, 121/2, 15, or 30 lb spools. Individual spools shall be adequately protected by application of moisture- resistant barrier and packaged single or in multiple in fiberboard boxes Federal Specification PPP-B-636, Type CF, Class weather-resistant.	Fiberboard boxes in accordance with Federal Specification PPP-B-636, Type CF, Class weather-resistant, Grade V3c. All corners and seams of boxes, including manufacturer's joint, shall be sealed with PPP-T-60, Type III or IV, Class 1, minimum 2 in. wide tape. Three 5/by 0.015 in. flat steel straps, one lengthwise and two girthwise, shall be applied to each box. Maximum gross weight and dimensions of the box specification shall not be exceeded. or	See Packing	
	iTeh Stan	Wooden boxes (Figs. 6-9). Intermediate fiberboard boxes overpacked in wooden boxes, shall be closed in accordance with the closure method prescribed above for the fiberboard shipping in wooden containers.	1000	

^A Maximum weights specified in this table are for shipments to DOD only. ^B Weight may be increased to 2000 lb for large quantities for manufacturing when specified in the contract or order.

^C For metal weighing 1 lb/linear foot or more, see structural profiles.

^D Foil is sheet metal less than 0.006 in. thick.

^E Foil for food handling applications shall be preserved and packed as specified in the contract or order.

F Classification of sheet and plate: Sheet is 0.006 through 0.249 in. thick; plate is 0.250 in. and thicker.

^G For metal weighing less than 1 lb/linear foot, see extruded profiles.

TABLE 2 Minimum	Requirements	for Paper	and Barrier	Materials (See	e Table 1	I) ^A
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Туре	Tensile Strength in Weaker Direction FTMS 2038	Stretch in Creped Direction FTMS 2038	Contact Corrosivity FTMS 3005	Oil Resistance FTMS 3017	Water Re- sistance Method D779	Military/Federal Specification
I. Interleaving: ^B						
A. 10 lb, uncreped	11/2		No corrosion	No delamination,		UU-P-553, Tp II
B. 30 lb, uncreped	10			embrittlement, or disintegration		MIL-P-17667, Tp 1 ^C
II. Exterior and interior						
A. Uncreped ^D	65		No corrosion	No penetration for 24 hr min	24	
B. Creped ^{EF}	35	20		and no delamination, embrittle- ment, or disintegration	24	
III. Exterior and interior						
wrap, non-reinforced						
A. Uncreped	30		No corrosion	No penetration for 24 h min	24	MIL-B-121:
B. Creped	25	15		and no delamination, embrittle- ment, or disintegration	24	Tp I, Gd A, Cl 1 Tp I, Gd A, Cl 2

^A The minimum requirements listed in Table 2 are based on the results of tests performed in accordance with the test methods outlined in Fed Std No. 101, and Test Method D 779.

^B Interleaving paper shall be nonabrasive to aluminum surfaces, and have a hydrogen ion concentration (pH) of between 4.5 and 7.5.

^c Except that spring back and identification requirements shall not apply, that the pH value shall be that shown in Footnote B, and that corrosive properties shall be tested for aluminum and magnesium only. ^D Shall have random dispersed reinforced, or a reinforcement spacing not less than 12 threads per foot in both directions.

^E Shall have random dispersed reinforcement, or a reinforcement spacing not less than 12 threads per foot in the longitudinal direction.

^F Tensile strength shall apply only in the reinforced direction.



FIG. 7 Style 2 Nail Wood Box^A

6.1.1.1 *Cleanliness*—Surfaces shall be commercially clean, and free from loose mill scale, dirt, foreign matter, or corrosion. The presence of residual rolling oil shall not be considered foreign matter.

6.1.1.2 *Preservatives*—Oil used for preservation of aluminum products shall conform to the requirements of Aluminum Standards and Data-Protective Oil for Aluminum, VV-L-800 or MIL-L-7870. Oil used for preservation of magnesium products shall conform to the requirements of MIL-C-16173, Grade 2, or MIL-C-11796, Class 3. Chrome pickle treatment of magnesium products shall conform to the requirements of Practices D 1732. 6.1.1.3 Application of Preservative Coating—The application of corrosion-preventive material demands careful attention; compounds shall not be applied to surfaces that show signs of moisture, condensation, frost, dirt, or other contaminants. The maximum corrosion resistance is obtained only by a thorough coating of a contaminant-free surface. It is essential that articles treated are not unduly handled until film is set. Application may be by dipping, brushing, rolling, spraying, or flowing onto the surface.

6.1.1.4 *Interleaving*—The interleaving paper shall fully cover the metal; for manual application, paper shall extend 1 in. beyond sides and ends, for machine application, paper may be same size as the metal provided the metal is fully covered.

6.1.1.5 *Wraps*—Application of wraps shall be in accordance with Table 1. Products may be machine-wrapped or hand-wrapped.