



Standard Specification for Tin Mill Products, Electrolytic Tin Plate, Single Reduced¹

This standard is issued under the fixed designation A624/A624M; 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 This specification covers single-reduced electrolytic tin plate produced from low-carbon cold-reduced steel furnished in coils and cut sizes for use in the manufacture of cans, closures, crowns, and other products. It is furnished in commercially available tin coating weights [masses], and is normally supplied with a trimmed edge.

1.2 This specification is applicable to orders in either inch-pound units (as A624) which is supplied in nominal thicknesses from 0.0061 to 0.0149 in. or SI units [as A624M] which is supplied in nominal thicknesses from 0.155 to 0.378 mm.

1.3 The values stated in either inch-pound or SI units are to be regarded as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents. Therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with this specification.

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

A623 Specification for Tin Mill Products, General Requirements

A623M Specification for Tin Mill Products, General Requirements [Metric]

A630 Test Methods for Determination of Tin Coating Weights for Electrolytic Tin Plate

¹ This specification is under the jurisdiction of ASTM Committee A01 on Steel, Stainless Steel and Related Alloys and is the direct responsibility of Subcommittee A01.20 on Tin Mill Products.

Current edition approved Oct. 1, 2013. Published October 2013. Originally approved in 1968. Last previous edition approved in 2008 as A624/A624M - 08^{ε1}. DOI: 10.1520/A0624_A0624M-13.

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.

A754/A754M Test Method for Coating Weight (Mass) of
Metallic Coatings on Steel by X-Ray Fluorescence
B339 Specification for Pig Tin

3. Ordering Information

3.1 Orders for product under this specification shall include the following information, as required and applicable, to describe adequately the desired product:

3.1.1 Name of product (single-reduced electrolytic tin plate) (Section 1),

3.1.2 Tin coating weight [mass] designation and marking, if any (Section 4, Table 1, and Figs 1 and 2),

3.1.3 Surface appearance and finish (Section 5),

3.1.4 Chemical treatment (Section 6),

3.1.5 Oiling (Section 7),

3.1.6 Thickness (Specification A623 [A623M]) (this must be consistent with the intended application),

3.1.7 Coil width or cut size in increments of 1/16 in. or 1 mm,

3.1.8 Where required, rolling direction will be specified on cut sizes and will be indicated by underlining the slit (rolling width) dimension,

3.1.9 Steel type (Specification A623 [A623M]),

3.1.10 Temper designation (Specification A623 [A623M]) (this must be consistent with the intended application),

3.1.11 Intended application,

3.1.12 Quantity in base boxes (SITAs) (see Note 4),

3.1.13 On coils, specify minimum or range of acceptable inside diameters. The standard inside diameter is approximately 16 in. if ordered as A624 [410 mm if ordered as A624M]. Coils should be specified to a maximum coil weight if ordered as A624 [mass if ordered as A624M], or maximum outside diameter or both,

3.1.14 Packaging,

3.1.15 Special requirements where applicable, J = plate or K = plate, and

3.1.16 ASTM specification designation and year of issue.

NOTE 1—A typical ordering description for coils is as follows: 1250 base boxes, single reduced, electrolytic tin plate, No. 20, ATBC, L, T-5 CA, 7C, 0.0088 in. thickness 31 1/4 in. by coil, 16 in. inside diameter, 65 in. maximum outside diameter, 25 000 lbs maximum coil weight, for 300 diameter sanitary open top ends in accordance with Specification A624/A624M - XX. [250 SITAs, single reduced electrolytic tin plate, 2.2/2.2, ATBC, L, T-5, 7C, 0.22 mm thickness, 794 mm by coil, 410 mm inside

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