



Standard Specification for Textured Stainless Steel Sheet [Metric]¹

This standard is issued under the fixed designation A947M; 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.

1. Scope*

1.1 This specification covers stainless steel, textured sheets, especially for use in electronic packaging applications, for example, cabinet, rack, enclosure, and shelf constructions for telecommunication, computer, and data-processing equipment.

1.2 This specification applies to all finished flat-rolled stainless products specified by standards organizations such as International Standards Organization (ISO), American Society for Testing and Materials (ASTM), European Committee for Standardization (CEN), German Institute for Standardization (DIN), and others participating in a global standards harmonization effort.

1.3 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

2. Referenced Documents

2.1 ASTM Standards:²

A240/A240M Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

A370 Test Methods and Definitions for Mechanical Testing of Steel Products

A480/A480M Specification for General Requirements for Flat-Rolled Stainless and Heat-Resisting Steel Plate, Sheet, and Strip

A700 Guide for Packaging, Marking, and Loading Methods for Steel Products for Shipment

A751 Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products

B117 Practice for Operating Salt Spray (Fog) Apparatus

B193 Test Method for Resistivity of Electrical Conductor Materials

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 A01.17 on Flat-Rolled and Wrought Stainless Steel.

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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.

D257 Test Methods for DC Resistance or Conductance of Insulating Materials

D523 Test Method for Specular Gloss

2.2 ISO Standards:³

ISO 1462 Accelerated Corrosion Tests and Evaluation of Results

ISO 6892 Metallic Materials Tensile Testing

2.3 IEC Standard:⁴

IEC 68 Environmental Testing

2.4 CEN Standard:⁵

EN 10002/1 Metallic Materials Tensile Testing

2.5 DIN Standards:⁶

DIN 17441 Stainless Steel Technical Delivery Conditions for Stainless Cold Rolled Steel

DIN 50021-SS Spray Test with Different Sodium Chloride Solutions

DIN 50980 Evaluation of Corrosion Tests

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *textured*—a three-dimensional design pattern, regardless of the specific production-process approach.

4. Ordering Information

4.1 It is the responsibility of the purchaser to specify all requirements that are necessary for material ordered under this specification. Such requirements may include, but are not limited to the following:

4.1.1 *Quantity*—Number of sheets or weight.

4.1.2 Dimensions of sheet (thickness (texture included), width, and length). See **Tables 1-5** and **Section 9** for preferred sizes and tolerances.

4.1.3 ASTM designation and date of issue.

4.1.4 Name and type of material.

4.1.5 Surface condition of the nontextured surface. See Specification **A480/A480M** or **DIN 17441** Table 8.

³ Available from International Organization for Standardization (ISO), 1 rue de Varembe, Case postale 56, CH-1211, Geneva 20, Switzerland.

⁴ Available from International Electrotechnical Commission (IEC), 3 rue de Varembe, Case postale 131, CH-1211, Geneva 20, Switzerland.

⁵ Available from European Committee for Standardization (CEN), Rue Brederode 2, B 1000 Bruxelles.

⁶ Available from German Institute for Standardization (DIN), Burggrafenstrasse 6, 1000 Berlin 30.

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