



Standard Specification for Steel, Sheet and Strip, Alloy, Hot-Rolled and Cold-Rolled, General Requirements for¹

This standard is issued under the fixed designation A505; 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 a group of common requirements that, unless otherwise specified in the material specification, apply to hot-rolled and cold-rolled alloy steel sheet and strip under each of the following specifications: [A506](#), [A507](#), and [A873/A873M](#).

1.2 In case of any conflict in requirements, the requirements of the individual material specification shall prevail over those of this general specification.

1.3 The purchaser may specify additional requirements which do not negate any of the provisions of this general specification or of the individual material specification. Such additional requirements, the acceptance of which are subject to negotiation with the supplier, must be included in the order information (see [4.1.9](#)).

1.4 For purposes of determining conformance with this specification and the various material specifications referenced in [1.1](#), values shall be rounded to the nearest unit in the right-hand place of figures used in expressing the limiting values in accordance with the rounding provisions of Test Methods and Definitions [A370](#) and Test Methods, Practices, and Terminology [A751](#).

1.5 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.

2. Referenced Documents

2.1 ASTM Standards:²

[A370](#) Test Methods and Definitions for Mechanical Testing of Steel Products

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 [A01.19](#) on Steel Sheet and Strip.

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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.

[A506](#) Specification for Alloy and Structural Alloy Steel, Sheet and Strip, Hot-Rolled and Cold-Rolled

[A507](#) Specification for Drawing Alloy Steel, Sheet and Strip, Hot-Rolled and Cold-Rolled

[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

[A873/A873M](#) Specification for Steel Sheet and Strip, Chromium-Molybdenum Alloy, for Pressure Vessels (Withdrawn 1997)³

[A919](#) Terminology Relating to Heat Treatment of Metals (Withdrawn 1999)³

[A1073/A1073M](#) Practice for Using Hand Micrometers to Measure the Thickness of Nonmetallic and Metallic-Coated Steel Sheet

2.2 *Federal Standard*:⁴

Fed. Std. No. 123 Marking for Shipment (Civil Agencies)

2.3 *Military Standard*:⁴

MIL-STD-129 Marking for Shipment and Storage

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *sheet and strip*, *n*—hot-rolled and cold-rolled alloy steel sheet and strip is classified as shown in [Table 1\(a\)](#) and [Table 1\(b\)](#).

3.1.2 *exclusive, adj*—when used in relation to ranges, as for ranges of thicknesses in the tables of permissible variations in dimensions, the term “exclusive” is intended to exclude only the greater value of the range. Thus a range from 60 to 72 in. (1524 to 1829 mm) *exclusive* includes 60 in. but does not include 72 in.

3.1.3 *manufacturer (material manufacturer)*, *n*—an organization that performs or directly controls one or more operations, such as melting, rolling, coiling, and heat

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

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

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