



Designation: A167 – 99(Reapproved 2009)

Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip¹

This standard is issued under the fixed designation A167; 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 stainless and heat-resisting chromium-nickel steel plate, sheet, and strip.

1.2 The values stated in inch-pound units are to be regarded as the standard.

NOTE 1—Grades that were previously covered in both Specifications A167 and A240/A240M have been removed from this specification and may now be supplied and purchased in compliance with Specification A240/A240M. The chemical and mechanical property requirements of these grades were identical in Specifications A167 and A240/A240M at the time of removal from Specification A167.

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

E527 Practice for Numbering Metals and Alloys in the Unified Numbering System (UNS)

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.

Current edition approved May 1, 2009. Published May 2009. Originally approved in 1935. Last previous edition approved in 2004 as A167 – 99 (2004). DOI: 10.1520/A0167-99R09.

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.

2.2 *SAE Standard:*³

J 1086 Numbering Metals and Alloys (UNS)

3. Chemical Composition

3.1 The steel shall conform to the requirements as to chemical composition specified in Table 1, and shall conform to applicable requirements specified in Specification A480/A480M.

4. Mechanical Properties

4.1 The material shall conform to the mechanical properties specified in Table 2.

5. General Requirements

5.1 The following requirements for orders for material furnished under this specification shall conform to the applicable requirements of the current edition of Specification A480/A480M.

5.1.1 Definitions,

5.1.2 General requirements for delivery,

5.1.3 Ordering information,

5.1.4 Process,

5.1.5 Heat treatment,

5.1.6 Special tests,

5.1.7 Dimensions and permissible variations,

5.1.8 Workmanship, finish, and appearance,

5.1.9 Number of tests,

5.1.10 Specimen preparation,

5.1.11 Retreatment,

5.1.12 Inspection,

5.1.13 Rejection and reheating,

³ Available from Society of Automotive Engineers (SAE), 400 Commonwealth Dr., Warrendale, PA 15096-0001, <http://www.sae.org>.