



Standard Specification for Common Requirements for Steel Fasteners or Fastener Materials, or Both, Intended for Use at Any Temperature from Cryogenic to the Creep Range¹

This standard is issued under the fixed designation A 962/A962M; 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 reappraisal. A superscript epsilon (ε) indicates an editorial change since the last revision or reappraisal.

1. Scope

1.1 This specification covers a group of common requirements that shall apply to carbon, alloy and stainless steel fasteners or fastener materials, or both, under any of the following ASTM Specifications (or under any other ASTM Specifications that invoke this specification or portions thereof):

Title of Specifications	ASTM Designation
Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service	A 193/A 193M
Carbon and Alloy Steel Nuts for Bolts for High Pressure and High-Temperature Service	A 194/A 194M
Alloy Steel Bolting Materials for Low-Temperature Service	A 320/A 320M
Alloy-Steel Turbine-Type Bolting Material Specially Heat Treated for High-Temperature Service	A 437/A 437M
High-Temperature Bolting Materials With Expansion Coefficients Comparable to Austenitic Stainless Steels	A 453/A 453M
Alloy-Steel Bolting Materials for Special Applications	A 540/A 540M

1.2 In case of conflict the requirements of the individual product specification shall prevail over those of this specification.

1.3 Additional requirements may be specified by mutual agreement between the purchaser and supplier.

1.4 Values stated in either inch-pound or SI units (metric) are to be regarded separately. The SI units are shown in brackets within the text and tables. The values stated in each system are not exact equivalents, therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the specification. Inch-pound units shall apply unless the “M” designation of the product specification is specified in the order.

2. Referenced Documents

The following documents shall form a part of this specification to the extent specified. The latest issue shall apply unless otherwise specified.

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 A01.22 on Steel Forgings and Wrought Fittings for Piping Applications and Bolting Materials for Piping and Special Purpose Applications.

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2.1 ASTM Standards:

- A 29/A 29M Specification for Steel Bars, Carbon and Alloy, Hot-Wrought and Cold-Finished, General Requirements for²
- A 193/A 193M Specification for Alloy-Steel and Stainless Steel Bolting Materials for High-Temperature Service³
- A 194/A 194M Specification for Carbon and Alloy Steel Nuts for Bolts for High-Pressure and High-Temperature Service³
- A 320/A 320M Specification for Alloy Steel Bolting Materials for Low-Temperature Service³
- A 370 Test Methods and Definitions for Mechanical Testing of Steel Products³
- A 437/A 437M Specification for Alloy-Steel Turbine-Type Bolting Material Specially Heat Treated for High-Temperature Service³
- A 453/A 453M Specification for High-Temperature Bolting Materials, With Expansion Coefficients Comparable to Austenitic Stainless Steels³
- A 484/A 484M Specification for General Requirements for Stainless Steel Bars, Billets, and Forgings⁴
- A 540/A 540M Specification for Alloy-Steel Bolting Materials for Special Applications³
- A 574 Specification for Alloy Steel Socket-Head Cap Screws⁵
- A 700 Practices for Packaging, Marking, and Loading Methods for Steel Products for Domestic Shipment²
- A 751 Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products³
- A 788 Specification for Steel Forgings, General Requirements²
- E 3 Practice for Preparation of Metallographic Specimens⁶
- E 381 Method of Macroetch Testing Steel Bars, Billets, Blooms, and Forgings⁶
- E 384 Test Method for Microhardness of Materials⁶
- E 1417 Practice for Liquid Penetrant Examination⁷
- E 1444 Practice for Magnetic Particle Examination⁷

² *Annual Book of ASTM Standards*, Vol 01.05.

³ *Annual Book of ASTM Standards*, Vol 01.01.

⁴ *Annual Book of ASTM Standards*, Vol 01.03.

⁵ *Annual Book of ASTM Standards*, Vol 15.08.

⁶ *Annual Book of ASTM Standards*, Vol 03.01.

⁷ *Annual Book of ASTM Standards*, Vol 03.03.