



Designation: A437/A437M – 26

Standard Specification for Stainless and Alloy-Steel Turbine-Type Bolting Specially Heat Treated for High-Temperature Service¹

This standard is issued under the fixed designation A437/A437M; 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 specification² covers stainless and alloy-steel bolting material and bolting components specially heat treated for high-temperature service, such as steam turbine, gas turbine, and similar uses. See Specification [A962/A962M](#) for the definition of bolting. This material requires special processing and should not be used in general-purpose applications. Bolting furnished as bars shall be hot wrought and may be further processed by centerless grinding or by cold drawing.

1.2 The high-temperature properties of the bolting materials and components covered by this specification are dependent upon special heat treatment, which is required. Although the high-temperature properties are not specified, they are implied by control of the chemistry, heat treatment, and room-temperature properties of the bolting material.

1.3 Three levels of bolting strength are covered, designated Grades B4B, B4C, and B4D.

1.4 The following referenced general requirements are indispensable for application of this specification: Specification [A962/A962M](#).

1.5 Supplementary requirements are provided for use at the option of the purchaser. The supplementary requirements shall apply only when specified individually by the purchaser in the purchase order or contract.

1.6 This specification is expressed in both inch-pound units and in SI units; however, unless the purchase order or contract specifies the applicable *M* specification designation (SI units), the inch-pound units shall apply.

1.7 The values stated in either SI units or inch-pound units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each

system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

1.8 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 ASTM Standards:³

- [A962/A962M](#) Specification for Common Requirements for Bolting Intended for Use at Any Temperature from Cryogenic to the Creep Range
- [E292](#) Test Methods for Conducting Time-for-Rupture Notch Tension Tests of Materials
- [E112](#) Test Methods for Determining Average Grain Size

3. Ordering Information

3.1 It shall be the responsibility of the purchaser to specify all requirements necessary for product under this specification. Such requirements to be considered include, but are not limited to, the following:

- 3.1.1 Specification designation, grade, issue date, and revision letter,
- 3.1.2 Quantity (weight or number of pieces),
- 3.1.3 Description (bars, bolts, nuts, etc.),
- 3.1.4 Dimensions,
- 3.1.5 Finish, and
- 3.1.6 Impact testing of nuts, if required (see Section 8).

4. Common Requirements

4.1 Bolting materials and bolting components supplied to this specification shall conform to the requirements of Specification [A962/A962M](#). These requirements include test

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 For ASME Boiler and Pressure Vessel Code applications see related Specification SA-437 in Section II of that code.

³ For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at www.astm.org/contact. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

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