



Designation: A1016/A1016M – 24a

Standard Specification for General Requirements for Ferritic Alloy Steel, Austenitic Alloy Steel, and Stainless Steel Tubes¹

This standard is issued under the fixed designation A1016/A1016M; 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 requirements that, unless otherwise specified in an individual specification, shall apply to the ASTM product specifications noted below.

Title of Specification	ASTM Designation ^A
Seamless Carbon-Molybdenum Alloy-Steel Boiler and Superheater Tubes	A209/A209M
Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes	A213/A213M
Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes	A249/A249M
Electric-Resistance-Welded Ferritic Alloy-Steel Boiler and Superheater Tubes	A250/A250M
Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service	A268/A268M
Seamless and Welded Austenitic Stainless Steel Tubing for General Service	A269/A269M
Seamless and Welded Austenitic and Ferritic/Austenitic Stainless Steel Sanitary Tubing	A270/A270M
Seamless and Welded Carbon and Alloy-Steel Tubes for Low-Temperature Service	A334/A334M
Welded Austenitic Stainless Steel Feedwater Heater Tubes	A688/A688M
Austenitic Stainless Steel Tubing for Breeder Reactor Core Components	A771/A771M
Seamless and Welded Ferritic/Austenitic Stainless Steel Tubing for General Service	A789/A789M
Seamless and Welded Ferritic Stainless Steel Feedwater Heater Tubes	A803/A803M
Seamless Austenitic and Martensitic Stainless Steel Duct Tubes for Liquid Metal-Cooled Reactor Core Components	A826/A826M
High-Frequency Induction Welded, Unannealed, Austenitic Steel Condenser Tubes	A851
Welded Austenitic Alloy Steel Boiler, Superheater, Condenser, and Heat Exchanger Tubes with Textured Surface(s)	A1098/A1098M

^A These designations refer to the latest issue of the respective specifications.

1.2 In the case of conflict between a requirement of a product specification and a requirement of this general requirements specification, the product specification shall prevail. In the case of conflict between a requirement of the product specification or a requirement of this general requirements

specification and a more stringent requirement of the purchase order, the purchase order shall prevail.

1.3 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. The inch-pound units shall apply unless the “M” designation (SI) of the product specification is specified in the order.

1.4 *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:²

- A209/A209M Specification for Seamless Carbon-Molybdenum Alloy-Steel Boiler and Superheater Tubes
- A213/A213M Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes
- A249/A249M Specification for Welded Austenitic Steel Boiler, Superheater, Heat-Exchanger, and Condenser Tubes
- A250/A250M Specification for Electric-Resistance-Welded Ferritic Alloy-Steel Boiler and Superheater Tubes (Withdrawn 2017)³
- A268/A268M Specification for Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service
- A269/A269M Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service

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 A01.10 on Stainless and Alloy Steel Tubular Products.

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² 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.

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

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