



Designation: A 530/A 530M – 02

Standard Specification for General Requirements for Specialized Carbon and Alloy Steel Pipe¹

This standard is issued under the fixed designation A 530/A 530M; 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 Department of Defense.

1. Scope*

1.1 This specification² covers a group of requirements which, with the exceptions of Section 4.3, Section 12, Section 19, and Section 20, are mandatory requirements to the ASTM pipe product specifications noted below unless the product specification specifies different requirements, in which case the requirement of the product specification shall prevail.

1.2 Sections 4.3 or 19 are mandatory if the product specification has a requirement for product analysis or flattening tests.

1.3 Section 20 is mandatory if the product specification has a hydrostatic test requirement without defining the test parameters.

1.4 Section 12 is for information only.

1.5 In case of conflict between a requirement of the product specification and a requirement of this general requirement specification, only the requirement of the product specification need be satisfied.

Title of Specification	ASTM Designation ⁴
Seamless Carbon Steel Pipe for High-Temperature Service	A 106
Metal-Arc-Welded Steel Pipe for Use With High-Pressure Transmission Systems	A 381
Centrifugally Cast Ferritic Alloy Steel Pipe for High-Temperature Service	A 426
Centrifugally Cast Austenitic Steel Pipe for High-Temperature Service	A 451
Seamless Carbon Steel Pipe for Atmospheric and Lower Temperatures	A 524
Centrifugally Cast Iron-Chromium-Nickel High-Alloy Tubing for Pressure Application at High Temperatures	A 608
Centrifugally Cast Carbon Steel Pipe for High-Temperature Service	A 660
Electric-Fusion-Welded Steel Pipe for Atmospheric and Lower Temperatures	A 671
Electric-Fusion-Welded Steel Pipe for High-Pressure Service at Moderate Temperatures	A 672

Carbon and Alloy Steel Pipe, Electric-Fusion-Welded for High-Pressure Service at High Temperatures	A 691
Centrifugally Cast Ferritic/Austenitic Stainless Steel Pipe for Corrosive Environments	A 872

⁴ These designations refer to the latest issue of the respective specifications.

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

NOTE 1—The dimensionless designator NPS (nominal pipe size) has been substituted in this standard for such traditional terms as “nominal diameter,” “size,” and “nominal size.”

2. Referenced Documents

2.1 ASTM Standards:

A 370 Test Methods and Definitions for Mechanical Testing of Steel Products³

A 450/A 450M Specification for General Requirements for Carbon, Ferritic Alloy, and Austenitic Alloy Steel Tubes⁴

A 700 Practices for Packaging, Marking, and Loading Methods for Steel Products for Domestic Shipment⁵

A 751 Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products³

D 3951 Practice for Commercial Packaging⁶

E 29 Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications⁷

2.2 ANSI Standards:

B 36.10 Welded and Seamless Wrought Steel Pipe⁸

B 36.19 Stainless Steel Pipe⁸

2.3 Military Standards:

³ Annual Book of ASTM Standards, Vol 01.03.

⁴ Annual Book of ASTM Standards, Vol 01.01.

⁵ Annual Book of ASTM Standards, Vol 01.05.

⁶ Annual Book of ASTM Standards, Vol 15.09.

⁷ Annual Book of ASTM Standards, Vol 14.02.

⁸ Available from American National Standards Institute, 11 West 42nd St., 13th Floor, New York, NY 10036.

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 A01.09 on Carbon Steel Tubular Products.

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² For ASME Boiler and Pressure Vessel Code applications see related Specification SA-530 in Section II of that Code.

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