



Standard Specification for Steel Line Pipe, Black, Plain-End, Seamless¹

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1. Scope

1.1 This specification covers seamless, black, plain-end steel pipe for use in the conveyance of fluids under pressure. Pipe in sizes NPS 1 to 26, inclusive, as given in ASME B36.10M is included. Pipe having other dimensions, in this size range, may be furnished provided such pipe complies with all other requirements of this specification.

1.2 It is intended that the pipe be capable of being circumferentially welded in the field when welding procedures in accordance with the requirements of the applicable pipeline construction code are used.

1.3 The values stated in either inch-pound units or in SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values in each system are not exact equivalents; therefore, each system is to be used independently of the other.

2. Referenced Documents

2.1 ASTM Standards:²

A370 Test Methods and Definitions for Mechanical Testing of Steel Products

A450/A450M Specification for General Requirements for Carbon and Low Alloy Steel Tubes

A530/A530M Specification for General Requirements for Specialized Carbon and Alloy Steel Pipe

A751 Test Methods, Practices, and Terminology for Chemical Analysis of Steel Products

A941 Terminology Relating to Steel, Stainless Steel, Related Alloys, and Ferroalloys

2.2 API Standard:

API RP 5L3 Recommended Practice for Conducting Drop-Weight Tear Tests on Line Pipe³

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 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.

³ Available from American Petroleum Institute (API), 1220 L. St., NW, Washington, DC 20005-4070, <http://api-ec.api.org>.

2.3 ASME Standard:

ASME B36.10M Welded and Seamless Wrought Steel Pipe⁴

3. Terminology

3.1 *Definitions*—For terminology used in this specification, refer to Terminology A941.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *lot, n*—a quantity of pipe of the same ordered diameter, heat, wall thickness, and grade as given in Table 1.

3.2.2 *seamless pipe, n*—a tubular product made without a welded seam; it is manufactured usually by hot working the material, and if necessary, by subsequently cold-finishing the hot worked tubular product to produce the desired shape, dimensions, and properties.

3.2.3 *specified outside diameter (OD), n*—the outside diameter specified in the purchase order or the outside diameter listed in ASME B36.10M for the nominal pipe size specified in the purchase order.

4. General Requirements

4.1 Pipe furnished under this specification shall conform to the applicable requirements of Specification A530/A530M unless otherwise provided herein.

5. Ordering Information

5.1 Information items to be considered, if appropriate, for inclusion in the purchase order are as follows:

5.1.1 Specification designation and year of issue,

5.1.2 Quantity (feet or metres),

5.1.3 Grade (see Table 2 and 8.1.5),

5.1.4 Size (either nominal (NPS) or outside diameter and wall thickness),

5.1.5 Nominal length (see 14.3),

5.1.6 End finish (plain-end beveled or special, see 15.1),

5.1.7 Impact test temperature (see 8.2.5),

5.1.8 Heat treatment condition (see 6.1),

5.1.9 Carbon equivalent for over 0.800 in. [20.3 mm] wall thicknesses (see 7.4),

5.1.10 Reduced under thickness variation (see Table 5),

⁴ Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Three Park Ave., New York, NY 10016-5990, <http://www.asme.org>.