



Standard Specification for Centrifugally Cast Ferritic Alloy Steel Pipe for High- Temperature Service¹

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1. Scope *

- 1.1 This specification² covers centrifugally cast alloy steel pipe intended for use in high-temperature, high-pressure service.
- 1.2 Several grades of ferritic steels are covered. Their compositions are given in Table 1.
- 1.3 Supplementary Requirements S1 through S12 are provided. The supplementary requirements provide for additional tests of an optional nature and when desired shall be so stated in the order (Section 4).
- 1.4 The values stated in either inch-pound units or SI units are to be regarded separately as standard. Within the-s 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 each other. Combining values from the two systems may result in nonconformance with the specification.

2. Referenced Documents

2.1 ASTM Standards:

- A 370 Test Methods and Definitions for Mechanical Testing of Steel Products³
- A 530/A 530M Specification for General Requirements for Specialized Carbon and Alloy Steel Pipe⁴
- A 609/A 609M Practice for Castings, Carbon, Low-Alloy, and Martensitic Stainless Steel, Ultrasonic Examination Thereof⁵
- E 44 Definitions of Terms Relating to Heat Treatment of Metals⁵
- E 94 Guide for Radiographic Examination⁶
- E 165 Test Method for Liquid Penetrant Examination⁶
- E 186 Reference Radiographs for Heavy-Walled (2 to 4½-in. ~~(51 to 114-mm))~~ Steel Castings⁶
- E 208 Test Method for Conducting Drop-Weight Test to Determine Nil-Ductility Transition Temperature of Ferritic Steels⁷
- E 280 Reference Radiographs for Heavy-Walled (4½ to 12-in. ~~(114 to 305-mm))~~ Steel Castings⁶
- E 446 Reference Radiographs for Steel Castings Up to 2 in. ~~(51 mm)~~ [51 mm] in Thickness⁶
- E 709 Practice for Magnetic Particle Examination⁶

2.2 ANSI Standard:

- B46.1 Surface Texture⁸

2.3 ASME Boiler and Pressure Vessel Code:

- Section IX Welding Qualifications⁹

3. Ordering Information

3.1 Orders for material under this specification shall include the following, as required, to describe the desired material adequately:

- 3.1.1 Quantity (feet, centimetres, or number of lengths),
- 3.1.2 Name of material (centrifugally cast pipe),
- 3.1.3 Specification number,

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 A01.18 on Castings.

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² For ASME Boiler and Pressure Vessel Code applications see related Specification SA-426 in Section II of that Code.

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 01.02.

⁶ Annual Book of ASTM Standards, Vol 03.03.

⁷ Annual Book of ASTM Standards, Vol 03.01.

⁸ Available from American National Standards Institute, 25 W. 43rd St., 4th Floor, New York, NY 10036.

⁹ Available from American Society of Mechanical Engineers (ASME), Three Park Ave., New York, NY 10016-5990.

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