



Designation: A426/A426M – 08

# Standard Specification for Centrifugally Cast Ferritic Alloy Steel Pipe for High- Temperature Service<sup>1</sup>

This standard is issued under the fixed designation A426/A426M; 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 ( $\epsilon$ ) indicates an editorial change since the last revision or reappraisal.

Note—Table 1 was editorially corrected and the year date was changed on Feb. 4, 2008.

## 1. Scope\*

1.1 This specification<sup>2</sup> 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 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*:<sup>3</sup>
- A370 Test Methods and Definitions for Mechanical Testing of Steel Products
  - A609/A609M Practice for Castings, Carbon, Low-Alloy, and Martensitic Stainless Steel, Ultrasonic Examination Thereof
  - A941 Terminology Relating to Steel, Stainless Steel, Related Alloys, and Ferroalloys
  - A999/A999M Specification for General Requirements for Alloy and Stainless Steel Pipe

<sup>1</sup> 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.

Current edition approved Feb. 4, 2008. Published February 2008. Originally approved in 1958. Last previous edition approved in 2007 as A426/A426M - 07. DOI: 10.1520/A0426\_A0426M-08.

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

<sup>3</sup> 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.

- E94 Guide for Radiographic Examination
- E165 Practice for Liquid Penetrant Examination for General Industry
- E186 Reference Radiographs for Heavy-Walled (2 to 412-in. [51 to 114-mm]) Steel Castings
- E208 Test Method for Conducting Drop-Weight Test to Determine Nil-Ductility Transition Temperature of Ferritic Steels
- E280 Reference Radiographs for Heavy-Walled (412 to 12-in. [114 to 305-mm]) Steel Castings
- E446 Reference Radiographs for Steel Castings Up to 2 in. [51 mm] in Thickness
- E709 Guide for Magnetic Particle Testing
- 2.2 *ANSI Standard*.<sup>4</sup>
- B46.1 Surface Texture
- 2.3 *ASME Boiler and Pressure Vessel Code*.<sup>5</sup>  
Section IX Welding Qualifications

## 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,
  - 3.1.4 Grade (Table 1),
  - 3.1.5 Size (outside or inside diameter and minimum wall thickness),
  - 3.1.6 Length (specific or random) (Section on Permissible Variations in Length of Specification A999/A999M),
  - 3.1.7 End finish (Section on Ends of Specification A999/A999M),
  - 3.1.8 Optional Requirements S1 through S12 and Section 14.1,

<sup>4</sup> Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, http://www.ansi.org.

<sup>5</sup> Available from American Society of Mechanical Engineers (ASME), ASME International Headquarters, Three Park Ave., New York, NY 10016-5990, http://www.asme.org.

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

