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ASTM A351 / A351M - 10 Standard Specification for Castings, Austenitic, for Pressure-Containing Parts

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Abbreviation

ASTM A351 / A351M - 10

Valid from

01/04/2010

Information provider

American Society of Testing and Materials

Author

American Society of Testing and Materials

Information type

ASTM Standard

Format

PDF

Cited By

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Description

This standard provides a specification for austenitic steel castings for valves, flanges, fittings, and other pressure-containing parts.

Scope

- This specification covers austenitic steel castings for valves, flanges, fittings, and other pressure-containing parts. Note — Carbon steel castings for pressure-containing parts are covered by Specification [A216/A216M](#), low-alloy steel castings by Specification [A217/A217M](#), and duplex stainless steel castings by Specification [A995/A995M](#).
- A number of grades of austenitic steel castings are included in this specification. Since these grades possess varying degrees of suitability for service at high temperatures or in corrosive environments, it is the responsibility of the purchaser to determine which grade shall be furnished. Selection will depend on design and service conditions, mechanical properties, and high-temperature or corrosion-resistant characteristics, or both.
- Because of thermal instability, Grades CE20N, CF3A, CF3MA, and CF8A are not recommended for service at temperatures above 800 °F [425 °C].
- Because of embrittlement phases, Grade CD4MCu is not recommended for service at temperatures above 600 °F [316 °C].

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