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ASTM A536-84(2004) Standard Specification for Ductile Iron Castings

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Abbreviation

ASTM A536-84(2004)

Valid from

01/10/2004

Information provider

American Society of Testing and Materials

Author

American Society for Testing and Materials

Information type

ASTM Standard

Format

PDF

Cited By

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Description

This specification covers ductile iron castings, also known as spheroidal or nodular iron, that is described as cast iron with the graphite substantially spheroidal in shape and essentially free of other forms of graphite.

Appropriate heat treatment shall be identified according to grades, as follows:

- a full ferritizing anneal for 60-40-18;
- a quench and temper, or normalize and temper, or isothermal heat treatment for 100-70-03 and 120-90-02; and
- as-cast for 65-45-12 and 80-55-06.

Castings shall be tested and conform to specified tensile requirements such as tensile strength, yield strength, and elongation.

When indicated in the contract or purchase order, castings shall also adhere to special requirements like hardness, chemical composition, microstructure, pressure tightness, radiographic soundness, magnetic particle inspection dimensions, and surface finish.

Scope

This specification covers castings made of ductile iron, also known as spheroidal or nodular iron, that is described as cast iron with the graphite substantially spheroidal in shape and essentially free of other forms of graphite, as defined in Terminology A 644.

The values stated in inch-pound units are to be regarded as the standard.

No precise quantitative relationship can be stated between the properties of the iron in various locations of the same casting or between the properties of castings and those of a test specimen cast from the same iron (see Appendix X1).

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