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ASM Specialty Handbook Cast Irons

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Basic information on metallurgy, solidification characteristics, and properties, as well as extensive reviews on the low-alloy gray, ductile, compacted graphite, and malleable irons. Publisher: ASM International; Published: 1996 ; Pages: 494; ISBN: 978-0-87170-564-8; Review Type: Peer reviewed; Electronic Document

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ASM Specialty Handbook Cast Irons - ASM International

Cast Irons by ASM International (Author), J. R. Davis (Editor) 4.4 out of 5 stars 4 ratings

Cast Irons: ASM International, J. R.

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Davis: 9780871705648 ...

The conductive properties such as thermal and electrical conductivity, of the main metallographic phases present in cast iron are presented in a table. The article discusses the magnetic properties of cast iron in terms of magnetic intensity, magnetic induction, magnetic permeability, remanent magnetism,

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coercive force, and hysteresis loss.

Physical Properties of Cast Irons - ASM International

Alloy cast irons are considered to be those casting alloys based on the iron-carbon-silicon system that contain one or more alloying elements intentionally added to enhance one or more useful

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properties. Alloy cast irons can be classified as white cast irons, corrosion-resistant cast irons, and heat-resistant cast irons.

Alloy Cast Irons - ASM International
engineered cast irons are either gray or ductile iron, so that types I, II, and VII predominate. Gray cast iron Gray cast

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iron grades are typically identified by the ASTM A48 classification system. In that standard, classes range from 20 to 60. Each class represents the tensile strength in ksi of a separately cast

CAST IRON - ASM International

This article presents typical wear applications for a variety of cast iron

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grades in a table. In general, wear is classified according to three major types: adhesive (frictional) wear (sliding and rolling) caused by contact of one metallic surface with another; abrasive wear caused by contact with metallic (shots, swarf) or nonmetallic abrasive materials; and erosive wear.

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Wear of Cast Irons - ASM International

ASM International. ASM World
Headquarters 9639 Kinsman Road
Materials Park, OH 44073-0002.
440.338.5151 (US) +1 440.462.0292
(International) memberservicecenter@as
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Steels - ASM International

Many nations have their own classification system for steels and cast irons. Because of the complexity of these different classification systems, only those used in the United States are described in this Chapter. The American Iron and Steel Institute (AISI) and Society of Automotive Engineers (SAE) System.

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asm iron and steel - ASM International

Please contact the ASM International Member Service Center at 440-338-5151, ext. 0 or via email at MemberServiceCenter@asminternational.org for more information. Also, in the event that your company has a

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corporate shipping account with UPS or FedEx, we are happy to use your account number for delivery of your products.

Worldwide Guide to Equivalent Irons ... - ASM International

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engineers and scientists. We are dedicated to informing, educating, and connecting the materials community to solve problems and stimulate innovation around the world. ASM International.
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The cast irons suitable for the common

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corrosive environments are also discussed. The article reviews the coatings used on cast irons to enhance corrosion resistance, such as metallic, organic, conversion, and enamel coatings. It explains the basic parameters to be considered before selecting the cast irons for corrosion services.

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Corrosion of Cast Irons - ASM International

It explains how to control the reaction and thus properties of cast iron by overcooling and inoculation. The chapter also discusses composition, microstructure, heat treatments, and the classification and casting characteristics

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of white, gray, ductile, malleable, compacted graphite, and special cast irons.

Metallurgy for the Non-Metallurgist - ASM International

George F. Vander Voort, Juan Asensio-Lozano, Microstructure and Characterization of High-Alloy Cast Irons,

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Cast Iron Science and Technology, Vol 1A, ASM Handbook, Edited By Doru M. Stefanescu, ASM International, 2017, p 719-732, <https://doi.org/10.31399/asm.hb.v01a.a0006351>. Download citation file:

Cast Iron Science and Technology - ASM International

Roger A. Bushey, Welding of Cast Irons ,

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Welding, Brazing and Soldering, Vol 6,
ASM Handbook, Edited By David LeRoy
Olson, Thomas A. Siewert, Stephen Liu,
Glen R. Edwards, ASM International,
1993, p 708-721, <https://doi.org/10.31399/asm.hb.v06.a0001435>

Welding of Cast Irons [1] - ASM International

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ASM Handbook, Volume 01: Properties and Selection: Irons, Steels, and High-Performance Alloys Online ASM Handbook, Vol. 01A: Cast Iron Science and Technology \$97.00 \$0.00

Properties and Selection of Metals and ... - ASM International
VARIOUS TYPES OF FURNACES have

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been used for cast iron melting (). In terms of tonnage, the primary melting methods used by iron casting facilities are cupola and induction furnaces, constituting 60 and 36% of the tonnage, respectively (). The remaining 4% is comprised of electric arc furnaces and some resistance heating, which are also used as holding furnaces between

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melting and casting lines ...

Processing of Cast Iron | Cast Iron Science and Technology ...

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Classification and Basic Metallurgy of

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Cast Irons --Solidification Characteristics
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of Gray Irons --Metallurgy and Properties
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Cast irons (Book, 1996)

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ASM International, Jan 1, 1996 -

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Technology & Engineering - 494 pages 5 Reviews Cast iron offers the design engineer a low-cost, high-strength material that can be easily cast into a wide variety of useful, and sometimes complex, shapes. This handbook from ASM covers the entire spectrum of one of the most widely used and versatile of all metals.

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