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ASM Specialty Handbook Cast Irons 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 Download

ASM Specialty Handbook Cast Irons - ASM International

CAST IRONS ARE A CLASS of alloys within the larger ferrous family of metals. The term cast iron designates a group of materials that have some similar attribute

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

Cast Irons: ASM International, J. R. Davis: 9780871705648

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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, coercive force, and hysteresis loss.

Physical Properties of Cast Irons - ASM International

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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 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

Special cast irons differ from the common cast irons mainly in the higher content of alloying elements. Alloying elements can be added in common cast iron to enhance some mechanical properties. ... ASM INTERNATIONAL FALL / WINTER 2020 CATALOG. View the new, upcoming, and best-selling resources in ASM Handbooks, technical books, and databases in ...

Properties and Selection: Irons ... - ASM International

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Introduction to Steels and Cast Irons - ASM International

This article presents typical wear applications for a variety of cast iron grades in a table. In general, wear is classified

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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.

Wear of Cast Irons - ASM International

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Steels - ASM International

This is a one-of-a-kind handbook that covers the manufacturing, performance, and use of abrasion-resistant cast irons. The ultimate desktop reference on white cast iron, the information in the Abrasion-Resistant Cast Iron Handbook has been derived from many years of experience, a vast amount of research and many in-plant investigations by more than a generation of metallurgists.

Abrasion-Resistant Cast Iron Handbook - ASM International

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 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 melting and casting lines ...

Processing of Cast Iron | Cast Iron ... - ASM International

ASM International, Jan 1, 1996 - Technology & Engineering - 494 pages. 5 Reviews. Cast iron offers the design engineer a low-

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cost, high-strength material that can be easily cast into a wide variety...

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George Laird, Richard Gundlach and Klaus Röhrig, Abrasion-Resistant Cast Iron Handbook, ASM International (2000) ISBN 0-87433-224-9 External links [edit] Wikimedia Commons has media related to Cast iron .

Cast iron - Wikipedia

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(PDF) Introduction to Steels and Cast Irons | Javier ...

The international specification ISO 185 includes irons ranging in minimum strength from 100 to 350 MPa (19 to 51 ksi). The standard also allows manufacturer and purchaser to agree to use cast-on samples (samples attached to the casting) and hardness values as criteria.

Gray Iron Castings | Cast Iron Science and Technology ...

characteristics of the a380 die cast alloy ", International Journal of Metal casting. 13 (2019) 865-879. Mahmoud Abdel-salam, Shimaa El-Hadad, Waleed Khalifa" Effects of Microstructure and Alloy Composition on Hydroxyapatite Precipitation on Alkaline Treated α/β Titanium Alloys", Materials Science and Engineering C, 104 (2019)109974.

Waleed Khalifa - Profile | ASM International

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