



Standard Specification for Abrasion-Resistant Cast Irons¹

This standard is issued under the fixed designation A 532/A 532M; 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 reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers a group of white cast irons that have been alloyed to secure high resistance to abrasive wear in the applications of the mining, milling, earth-handling, and manufacturing industries.

1.2 Simple and low-alloy white cast irons that consist essentially of iron carbides and pearlite are specifically excluded from this specification.

1.3 The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in non-conformance with the standard.

2. Referenced Documents

2.1 *ASTM Standards:*²

E 10 Test Method for Brinell Hardness of Metallic Materials

E 18 Test Methods for Rockwell Hardness of Metallic Materials

E 92 Test Method for Vickers Hardness of Metallic Materials

E 350 Test Methods for Chemical Analysis of Carbon Steel, Low-Alloy Steel, Silicon Electrical Steel, Ingot Iron, and Wrought Iron

E 351 Test Methods for Chemical Analysis of Cast Iron—All Types

3. Ordering Information

3.1 Orders for material in this specification should include the following information:

- 3.1.1 Quantity.
- 3.1.2 Specification number, class, and type.
- 3.1.3 Description of the casting, pattern number, or drawing.
- 3.1.4 Chilling of the casting, if required (see 4.2).
- 3.1.5 Heat treat condition (see 5.1).
- 3.1.6 Hardness level, if supplied hardened or hardened and stress relieved, and
- 3.1.7 Hardness method, Brinell, Rockwell, Vickers (see Section 9). If the hardness method is not specified, it shall be at the manufacturer's option.

4. Method of Manufacture

4.1 These alloys may be made by any suitable melting process.

4.2 If the casting is to be chilled or otherwise specially treated on any portion, the inquiries and the purchase order shall so state and a properly marked drawing of the casting will accompany both the inquiry and the purchase order.

5. Heat Treatment

5.1 The casting will be supplied in one of the following conditions:

- 5.1.1 As-cast.
- 5.1.2 As-cast and stress relieved.
- 5.1.3 Hardened.
- 5.1.4 Hardened and stress relieved, or
- 5.1.5 Softened for machining.

5.2 Unless otherwise specified by the purchaser, the manufacturer shall supply the castings in the heat treatment he deems best for the application.

5.3 If the heat treatment specified for delivered condition is not that of final use, it shall be the responsibility of the purchaser to provide the additional heat treatment.

5.4 Class II and Class III alloys are frequently ordered in the annealed condition with a maximum hardness of 400 HB. After machining operations are performed the castings may then be hardened. If both annealing and machining are to be performed by the manufacturer, as specified in the inquiry, contract, or order, the purchaser may then specify delivery in the hardened condition. If the purchaser specifies delivery in the annealed

¹ This specification is under the jurisdiction of ASTM Committee A04 on Iron Castings and is the direct responsibility of Subcommittee A04.01 on Grey and White Iron Castings.

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² 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.

Heat Treatment Of A532 White Cast Iron

Baha Abulnaga



Heat Treatment Of A532 White Cast Iron:

ASM Specialty Handbook Joseph R. Davis,1996-01-01 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 *Handbook of Engineering Practice of Materials and Corrosion* Jung-Chul (Thomas) Eun,2020-09-04 This handbook is an in depth guide to the practical aspects of materials and corrosion engineering in the energy and chemical industries The book covers materials corrosion welding heat treatment coating test and inspection and mechanical design and integrity A central focus is placed on industrial requirements including codes standards regulations and specifications that practicing material and corrosion engineers and technicians face in all roles and in all areas of responsibility The comprehensive resource provides expert guidance on general corrosion mechanisms and recommends materials for the control and prevention of corrosion damage and offers readers industry tested best practices rationales and case studies **Materials Selection for Hydrocarbon and Chemical Plants** Hansen,2017-11-22 Describes the systematic procedure for using process and mechanical design information to select construction materials suitable for a range of chemical and hydrocarbon processing plants The volume features tables for locating the American Society for Testing and Materials ASTM product form specifications for construction materials that have code allowable design stresses It analyzes threshold values for degradation phenomena involving thermal damage **Cast Iron Technology** Roy Elliott,1988-04-18 Cast Iron Technology presents a critical review of the nature of cast irons It discusses the types of cast iron and the general purpose of cast irons It also presents the history of the iron founding industry Some of the topics covered in the book are the description of liquid metal state preparation of liquid metal process of melting description of cupola melting and electric melting methods control of composition of liquid metal during preparation description of primary cast iron solidification structures and thermal analysis of metals to determine its quality Solidification science and the fundamentals of heat treatment are also discussed An in depth analysis of the hot quenching techniques is provided The graphitization potential of liquid iron is well presented A chapter is devoted to microstructural features of cast iron The book can provide useful information to iron smiths welders students and researchers **Mineral Processing Plant Design, Practice, and Control** Andrew L. Mular,Doug N. Halbe,Derek John Barratt,2002 Annotation Based on 138 proceedings papers from October 2002 this broad reference will become the new standard text for colleges and will become a must for engineers consultants suppliers manufacturers *Materials in the Automotive Industry* Institute of Metals and Materials Australasia. Conference,1992 **Slurry Systems Handbook** Baha Abulnaga,2002-04-29 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The most comprehensive resource on slurries and slurry systems covering everything from fluid mechanics to soil classification pump design to selection criteria

Slurries are mixtures of liquids and solid particles of all types For instance liquid is used as a way of transporting what you get out of the mine which might be better than shoveling it into freight cars and carrying it out by train Slurry systems are fundamental to dredging many mineral processes bridge and tunnel construction and to the manufacturer of synthetic petroleum products from oil sands **Slurry Systems Handbook, Second Edition** Baha Abulnaga,2021-03-05 A complete guide to slurries and slurry systems fully updated for the latest advances This thoroughly revised guide contains start to finish coverage of slurry systems from fundamentals and fluid mechanics to pump design and materials selection Written by a recognized expert in the field Slurry Systems Handbook Second Edition clearly explains the components dynamics and design of slurry systems for many applications including mineral processing nuclear waste processing extra heavy oil upgrade mineral concentrate transport tailings systems and metal melting You will get real world examples solved problems and current codes as well as guidelines for conducting feasibility studies and hands on operating procedures Coverage includes General concepts of slurry flows Multi species and stratified heterogeneous flows Non Newtonian slurry flows Open channel and cascade slurry flows Slurry Hammer and Transients in closed and open channels Centrifugal and positive displacement slurry pumps Long distance slurry pipelines by commodity such as coal copper phosphate or gold Oil sand extraction Slurry reactors hydrocracking and heat transfer Hydrocarbon and hydrate based slurry pipelines Semi solid metals casting Tailings systems paste backfilling Slurry flows for nuclear waste processing De silting hydroelectric reservoirs

Mine Planning and Equipment Selection 1995 J. Hadjigeorgiou,A.K. Mehmotra,R. Poulin,R.K. Singhal,1995-10-31 This text presents about 150 papers based on an international symposium on mine planning and equipment selection held in Canada in 1995 Coverage includes design and planning of surface and underground mines surface mining and the environment tailings disposal and slope stability analysis Metals Handbook ASM Handbook Committee,1978 *ASM Handbook* D. M. Stefanescu,1988 Gives you a thorough yet easy to understand introduction to the principles of composition control gas evolution in melts and inclusion forming reactions as well as the basic concepts of crystal growth and solidification that aids you with interpretation of structures This volume discusses casting molding and coremaking practices in a series of articles that describe the basic steps and equipment associated with each process along with their advantages limitations and applications Each article is preceded by a review of the manufacture design and selection of patterns Book jacket **Standard Handbook for Mechanical Engineers** ,1996 *Tool and Manufacturing Engineers Handbook: Materials, Finishing and Coating* Charles Wick,Raymond F. Veilleux,Ramon Bakerjian,Society of Manufacturing Engineers,1985-12-09 Volume 3 helps you and your production team use new materials choose the most efficient surface and edge preparation techniques and apply coatings that enhance the appearance and performance of your final product You ll use this book to analyze the machinability formability and weldability of your materials and to help assess heat treatment systems coating processes and materials application and curing methods and more **Steel Castings Handbook** Malcolm

Blair, Thomas L. Stevens, 1995 This guide tells you what you need to know about mechanical and physical properties and other pertinent information in the design and use of steel castings Contents include Introduction Industrial Applications Advantages Specifying Purchasing Policy Functional Considerations of Design Manufacturing Design Considerations Concurrent Engineering Engineering Drawings for Casting Production Redesign of Steel Castings Cast Weld Construction Pattern Equipment Casting and Molding Processes Melting Finishing Heat Treatment Inspection Process Capability and Tolerances Quality Control and Quality Assurance Carbon and Low Alloy Steels for Pressure Containing and Structural Parts Wear Resistant Steels Corrosion Resistant High Alloy Steels Nickel Base Coatings Heat Resistant High Alloy Steels Low Temperature and Cryogenic Steels Hardenability and Heat Treatment Weldability and Welding Machinability Physical Properties The Foundry Trade Journal , 1989 **Metals handbook** Mills Kathleen, 1983 **Iron Castings Handbook** Charles Francis Walton, Timothy J. Opar, 1981 **The Nickel Bulletin** , 1966 Includes sections Abstracts and references and Patents *Tool and Manufacturing Engineers Handbook Desk Edition* W. H. Cubberly, Ramon Bakerjian, 1989 The TMEH Desk Edition presents a unique collection of manufacturing information in one convenient source Contains selected information from TMEH Volumes 1 5 over 1 200 pages of manufacturing information A total of 50 chapters cover topics such as machining forming materials finishing coating quality control assembly and management Intended for daily use by engineers managers consultants and technicians novice engineers or students **Marks' Standard Handbook for Mechanical Engineers, 12th Edition** Ali M. Sadegh, William M. Worek, 2017-11-10 The 100th Anniversary Edition of the Bible for Mechanical Engineers Fully Revised to Focus on the Core Subjects Critical to the Discipline This 100th Anniversary Edition has been extensively updated to deliver current authoritative coverage of the topics most critical to today s Mechanical Engineer Featuring contributions from more than 160 global experts Marks Standard Handbook for Mechanical Engineers Twelfth Edition offers instant access to a wealth of practical information on every essential aspect of mechanical engineering It provides clear concise answers to thousands of mechanical engineering questions You get accurate data and calculations along with clear explanations of current principles important codes standards and practices All new sections cover micro and nano engineering robotic vision alternative energy production biological materials biomechanics composite materials engineering ethics and much more Coverage includes Mechanics of solids and fluids Heat Strength of materials Materials of engineering Fuels and furnaces Machine elements Power generation Transportation Fans pumps and compressors Instruments and controls Refrigeration cryogenics and optics Applied mechanics Engineering ethics

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