

## ASTM Cross Reference Chart

Grade	Pipe Specs.	Tubing Specs.	Butt Weld Fitting Specs.	Forging Specs.	Plate Specs.
<b>CARBON STEEL</b>					
High Temp Use	A-106 GR. B A-53 GR. B		A-234 WPB	A-105	
Low Temp Use (Fine Grain)	A-333 GR. 6	A-334 GR. 6	A-420 WFL6	A350 LF2	
<b>ALLOY STEEL</b>					
Carbon 1/2% Moly	A-353 P1	A-161 T1	A-234 WP1	A-182 F1	A-204 GR. B
1-1/4% Chrome 1/2% Moly	A-355 P11 A-691	A-199 T11 A-200 T11 A-213 T11	A-234 WP11	A-182 F11	A-387 GR. 11
2-1/4% Chrome 1% Moly	A-355 P22 A-691	A-199 T22 A-200 T22 A-213 T22	A-234 WP22	A-182 F22	A-387 GR. 22
4-6% Chrome 1/2% Moly	A-355 P5 A-691	A-199 T5 A-200 T5 A-213 T5	A-234 WP5	A-182 F5	A-387 GR. 5
8-10% Chrome 1% Moly	A-335 P9 A-691	A-199 T9 A-200 T9 A-213 T9	A-234 WP9	A-182 F9	A-387 GR. 9
3-1/2% Nickel	A-333 GR. 3	A-334 GR. 3	A-420 WFL3	A-350 LF3	A-203 GR. D
<b>STAINLESS STEEL</b>					
18% Chrome 8% Nickel	A-312 T304 A-358 T304	A-213 T304 A-249 T304 A-269 T304	A-403 T304	A-182 T304	A-240 T304
Note: Above also available in T304L and T304H					
18% Chrome 8% Nickel 2-3% Moly	A-312 T316 A-358 T316 A-269 T316	A-213 T316 A-249 T316	A-403 T316	A-182 T316	A-240 T316
Note: Above also available in T304L and T304H					
18% Chrome 8% Nickel Titanium	A-312 T321 A-249 T321 A-269 T321	A-213 T321	A-403 T321	A-182 T321	A-240 T321
18% Chrome 8% Nickel Columbium & Tantalum	A-312 T347 A-249 T347 A-269 T347	A-213 T347	A-403 T347	A-182 T347	A-240 T47
<b>ALUMINUM ALLOYS</b>					
6061T6	B-241	B-210 B-234 B-483	B-361	B-247	B-221
<b>NICKEL ALLOYS</b>					
Alloy 20 Alloy 20CB3	B-464 B-729 B-474	B-468	B-366	B-462	B-463
Alloy 300	B-161	B-163	B-366 WFN	B-160	B-162
Alloy 301	B-161	B-163	B-366 WPNL	B-160	B-162
Alloy 400	B-165	B-163	B-366 WPNL	B-164	B-127
Alloy 600	B-167	B-163	B-366 WPNL	B-166	B-168
Alloy 800	B-407	B-163	B-366 WPNL	B-408	B-409
Alloy C276	B-619 B-622	B-622 B-626	B-366 WPHC276	B-574+	B-575+

Data provided on this chart is for informational purposes only. Always consult current ASME or API official publications to verify  
 † B-574 Bar or B-575 Plate flanges are produced by sizes given. There is no actual specification.

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# Astm Aisi Cross Reference Guide

**John D. Verhoeven**



## **Astm Aisi Cross Reference Guide:**

**Worldwide Guide to Equivalent Nonferrous Metals and Alloys** Fran Cverna, 2001-01-01 This latest edition incorporates the many changes in the specifications and designations of nonferrous alloys that have occurred over the past five years The volume features over 20 000 alloy designations including a complete listing of UNS designations for nonferrous alloys and comprehensive treatment of current European and Japanese standards It covers more countries more alloys and more standards than previous editions while keeping obsolete designations for those persons trying to duplicate equipment from old documents This comprehensive volume is well indexed with easy to use cross references that make short work of looking up equivalents for a material specification or designation It provides valuable composition tables that allow you to compare similar alloys Tensile properties and product forms are provided when available Heat Treater's Guide Harry Chandler, 1994-12-31 This edition is a complete revision and contains a great deal of new subject matter including information on ferrous powder metallurgy cast irons ultra high strength steels furnace atmospheres quenching processes SPC and computer technology Data on over 135 additional irons and steels have been added to the previously covered 280 alloys

**Corrosion and Protection of Materials** Marina Cabrini, 2021-04-06 This book contains thirty articles on various topics related to the corrosion and protection of metallic materials This topic is of strong actuality both due to the aging of plants and infrastructures that require checks and maintenance and to the use of traditional materials in increasingly aggressive environments added to the need of changing the current anti corrosion systems with less environmental impact methods Finally the new development of innovative materials such as additive manufacturing or high entropy alloys needs the characterization of their corrosion behavior In this issue there are works on new alloys obtained for additive manufacturing or high entropy on the study of corrosion and stress corrosion cracking and hydrogen embrittlement mechanisms through electrochemical and microscopical techniques studies on low environmental impact inhibitors and biocides as well as ceramic and metal protective coatings Finally there are works on the study of the residual mechanical resistance of corroded infrastructures and on monitoring and non destructive control In this way the book therefore offers a somewhat varied panorama of research trends in the field **Unified Numbering System for Metals and Alloys**, 1977

**Tool Steels** Rafael A. Mesquita, 2016-12-19 This handy book provides a single up to date source of information for increasing the life of tool steels through optimized design and manufacturing Supplying a solid understanding of the metallurgy involved the text explains how material compositions manufacturing processes heat treatments surface hardening techniques and coatings affect tool steel properties grades and performance It also explores real life case studies and failure analyses offering examples of die life parameters and hints for modifying tool steels and heat treatments during cutting or forming processes While the book offers deep coverage of properties microstructure and manufacturing its focus is on describing the performance of each application of this special class of ferrous materials Provides a single up to date source of

information for increasing the life of tool steels through optimized design and manufacturing Explains how material compositions manufacturing processes heat treatments surface hardening techniques and coatings affect tool steel properties grades and performance Supplies a solid understanding of the metallurgy involved in tool steel manufacturing machining hot and cold working and molding Offers examples of die life parameters and hints for modifying tool steels and heat treatments during cutting or forming processes Includes real life case studies and failure analyses from the Villares Metals plant in Brazil     Metals & Alloys in the Unified Numbering System ,1989     **Industrial Standardization and**

**Commercial Standards Monthly** ,1942     **Steel Heat Treatment Handbook** George E. Totten,Maurice A.H.

Howes,1997-02-21 This comprehensive resource provides practical modern approaches to steel heat treatment topics such as sources of residual stress and distortion hardenability prediction modeling effects of steel alloy chemistry on heat treatment quenching carburizing nitriding vacuum heat treatment metallography and process equipment Containing recent data and developments from international experts the Steel Treatment Handbook discusses the principles of heat treatment quenchants quenching systems and quenching technology strain gauge procedures X ray diffraction and other residual stress measurement methods carburizing and carbonitriding powder metallurgy technology metallography and physical property determination ecological regulations and safety standards and more Well illustrated with nearly 1000 tables equations figures and photographs the Steel Heat Treatment Handbook is an excellent reference for materials manufacturing heat treatment maintenance mechanical industrial process and quality control design and research engineers department or corporate metallurgists and upper level undergraduate and graduate students in these disciplines     **Practical Induction**

**Heat Treating, Second Edition** Richard E. Haimbaugh,2015-08-01 Practical Induction Heat Treating Second Edition is a quick reference source for induction heaters This book ties in the metallurgy theory and practice of induction heat treating from a hands on explanation of what floor people need to know This book includes practical tables and process analysis of induction heating     **Information Sources in Metallic Materials** M. N. Patten,2017-07-24 No detailed description

available for Information Sources in Metallic Materials     *Database Systems in Science and Engineering* J.R Rumble,F.J Smith,1990-01-01 Computerized databases provide a powerful everyday tool for data handling by scientists and engineers However the unique nature of many technical tasks requires a specialized approach to make use of the many powerful commercial database tools now available Using these tools has proved difficult because database technology is often shrouded in layers of jargon An essential guide for scientists and engineers who use computers to avoid drowning in a flood of data Database Systems in Science and Engineering dispels the myths associated with database design and breaks the barriers to successful databases Using the language of scientists and engineers this book explains concepts and problems offers practical steps and solutions and provides new ideas for better data handling The first part of the book presents an overview of technical databases using examples taken from real applications and the current state of technical databases The

second part covers the computer implementation of technical databases including examples and the necessary computer science theory to form a sound background. The authors confront the many difficulties that arise in the design and implementation of a realistic database and offer solutions to these challenges. Before beginning any database project, scientists and engineers should read this book to understand how to make every database project successful through careful planning, good design, and efficient use of database tools.

**Catalytic Methods in Flow Chemistry** Christophe Len, Renzo Luisi, 2020-04-15. The chemical industry is essential in the daily human life of modern society despite the misconception about the real need for chemical production; everyone enjoys the benefit of the chemical progress. However, the chemical industry generates a large variety of products including i) basic chemicals e.g. polymers, petrochemicals and basic inorganics; ii) specialty chemicals for crop protection, paints, inks, colorants, textiles, paper and engineering; and iii) consumer chemicals including detergents, soaps, etc. For these reasons, chemists in both academia and industry are challenged with developing green and sustainable chemical production towards the full recycling of feedstocks and waste. Aiming to improve the intensification of the process, chemists have established chemical reactions based on catalysis as well as alternative technologies such as continuous flow. The aim of this book is to cover promising recent research and novel trends in the field of novel catalytic reactions: homogeneous, heterogeneous, and enzymatic, as well as their combinations in continuous flow conditions. A collection of recent contributions for conversion of starting material originated from petroleum resources or biomass into highly added value chemicals are reported.

Metallography of Steels: Interpretation of Structure and the Effects of Processing Hubertus Colpaert, 2018-08-01. Updated and translated by Andr Luiz V da Costa e Silva. This book is a combination of a metallographic atlas for steels and cast irons and an introductory textbook covering the fundamentals of phase transformations and heat treatment of these materials. Every important stage of processing, from casting to cold working, is clearly discussed and copiously illustrated with metallographs that show the obtained structures, both desired and those achieved when deviations occur. First published in 1951 by Professor Hubertus Colpaert from the Institute for Technological Research IPT of São Paulo, Brazil, this book became one of the most important Brazilian references for professionals interested in the processing, treatment, and application of steels and cast irons. In the Fourth Edition and English translation, updated and translated by Professor Andr Luiz V da Costa e Silva, the concept of the original edition was preserved while the important developments of recent decades, both in metallographic characterization and in steel and iron products, as well as progress in the understanding of the transformations that made the extraordinary developments of these alloys possible, were added. Most metallographs are of actual industrial materials, and a large number originate from industry leaders or laboratories at the forefront of steel and iron development. As steel continues to be the most widely used metallic material in the world, Metallography of Steels continues to be an essential reference for students, metallographers, and engineers interested in understanding processing-property-structure relationships of the material. The balance between

theoretical and applied information makes this book a valuable companion for even experienced steel practitioners **ASM Metals Reference Book**, 1983 **Mechanical and Materials Engineering of Modern Structure and Component Design**

Andreas Öchsner, Holm Altenbach, 2015-06-06 This book presents the latest findings on mechanical and materials engineering as applied to the design of modern engineering materials and components The contributions cover the classical fields of mechanical civil and materials engineering as well as bioengineering and advanced materials processing and optimization The materials and structures discussed can be categorized into modern steels aluminium and titanium alloys polymers composite materials biological and natural materials material hybrids and modern nano based materials Analytical modelling numerical simulation state of the art design tools and advanced experimental techniques are applied to characterize the materials performance and to design and optimize structures in different fields of engineering applications

Steel Metallurgy for the Non-Metallurgist John D. Verhoeven, 2007-01-01 This book explains the metallurgy of steel and its heat treatment for non metallurgists It starts from simple concepts beginning at the level of high school chemistry classes and building to more complex concepts involved in heat treatment of most all types of steel as well as cast iron It was inspired by the author when working with practicing bladesmiths for more than 15 years Most chapters in the book contain a summary at the end These summaries provide a short review of the contents of each chapter This book is THE practical primer on steel metallurgy for those who heat forge or machine steel International Commerce, 1964-04

Machining—Recent Advances, Applications and Challenges Luis Norberto L´opez de Lacalle, Gorka Urbicain, 2019-08-26 The Special Issue Machining Recent Advances Applications and Challenges is intended as a humble collection of some of the hottest topics in machining The manufacturing industry is a varying and challenging environment where new advances emerge from one day to another In recent years new manufacturing procedures have retained increasing attention from the industrial and scientific community However machining still remains the key operation to achieve high productivity and precision for high added value parts Continuous research is performed and new ideas are constantly considered This Special Issue summarizes selected high quality papers which were submitted peer reviewed and recommended by experts It covers some but not only of the following topics High performance operations for difficult to cut alloys wrought and cast materials light alloys ceramics etc Cutting tools grades substrates and coatings Wear damage Advanced cooling in machining Minimum quantity of lubricant dry or cryogenics Modelling focused on the reduction of risks the process outcome and to maintain surface integrity Vibration problems in machines Active and passive predictive methods sources diagnosis and avoidance Influence of machining in new concepts of machine tool and machine static and dynamic behaviors Machinability of new composites brittle and emerging materials Assisted machining processes by high pressure laser US and others Introduction of new analytics and decision making into machining programming We wish to thank the reviewers and staff from Materials for their comments advice suggestions and invaluable support during the development of this Special Issue *Failure*

*Mechanisms in Alloys* George A. Pantazopoulos, 2020-03-19 The era of lean production and excellence in manufacturing advancing with sustainable development demands the rational utilization of raw materials and energy resources adopting cleaner and environmentally friendly industrial processes In view of the new industrial revolution through digital transformation the exploitation of smart and sophisticated materials systems the need of minimizing scrap and increasing efficiency reliability and lifetime and on the other hand the pursuit of fuel economy and limitation of carbon footprint are necessary conditions for the imminent growth in a highly competitive economy Failure analysis is an interdisciplinary scientific topic reflecting the opinions and interpretations coming from a systematic evidence gathering procedure embracing various important sectors imparting knowledge and substantiating improvement practices The deep understanding of material component role e g rotating shaft extrusion die gas pipeline and properties will be of central importance for fitness for purpose in certain industrial processes and applications Finally it is hoped and strongly believed that the accumulation of additional knowledge in the field of failure mechanisms and the adoption of the principles philosophy and deep understanding of failure analysis process approach will strongly promote the learning concept as a continuously evolving process leading to personal and social progress and prosperity Tribology and Surface Engineering Aleksander Lisiecki, 2020-01-15 The book covers very important issues not only scientific in nature but ultimately for industry and the economy Wear and deterioration of surface properties during operation is a natural and unavoidable phenomenon However minimizing the degree of wear is of great importance for the entire economy as illustrated by the example of the US economy for which the loss of natural resources as a direct cause of friction and wear exceeds 6% of the Gross National Product This book showcases the valuable knowledge revealed from both theoretical and practical research results in the field of advanced technologies of coatings and surface modification as well as wear and tribological characteristics of advanced materials and surface layers Therefore it is hoped that this book will be a valuable resource and helpful tool for scientists engineers and students in the field of surface engineering materials science and manufacturing engineering

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