

# 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<br>A-53 GR. B              |                                        | A-234 WPB                | A-105          |              |
| Low Temp Use<br>(Fine Grain)                    | A-333 GR. 6                            | A-334 GR. 6                            | A-420 WFL6               | A350 LF2       |              |
| <b>ALLOY STEEL</b>                              |                                        |                                        |                          |                |              |
| Carbon<br>1/2% Moly                             | A-353 P1                               | A-161 T1                               | A-234 WP1                | A-182 F1       | A-204 GR. B  |
| 1-1/4% Chrome<br>1/2% Moly                      | A-355 P11<br>A-691                     | A-199 T11<br>A-200 T11<br>A-213 T11    | A-234 WP11               | A-182 F11      | A-387 GR. 11 |
| 2-1/4% Chrome<br>1% Moly                        | A-355 P22<br>A-691                     | A-199 T22<br>A-200 T22<br>A-213 T22    | A-234 WP22               | A-182 F22      | A-387 GR. 22 |
| 4-6% Chrome<br>1/2% Moly                        | A-355 P5<br>A-691                      | A-199 T5<br>A-200 T5<br>A-213 T5       | A-234 WP5                | A-182 F5       | A-387 GR. 5  |
| 8-10% Chrome<br>1% Moly                         | A-335 P9<br>A-691                      | A-199 T9<br>A-200 T9<br>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<br>8% Nickel                         | A-312 T304<br>A-358 T304               | A-213 T304<br>A-249 T304<br>A-269 T304 | A-403 T304               | A-182 T304     | A-240 T304   |
| Note: Above also available in T304L and T304H   |                                        |                                        |                          |                |              |
| 18% Chrome<br>8% Nickel<br>2-3% Moly            | A-312 T316<br>A-358 T316<br>A-269 T316 | A-213 T316<br>A-249 T316               | A-403 T316               | A-182 T316     | A-240 T316   |
| Note: Above also available in T304L and T304H   |                                        |                                        |                          |                |              |
| 18% Chrome<br>8% Nickel<br>Titanium             | A-312 T321<br>A-249 T321<br>A-269 T321 | A-213 T321                             | A-403 T321               | A-182 T321     | A-240 T321   |
| 18% Chrome<br>8% Nickel<br>Columbium & Tantalum | A-312 T347<br>A-249 T347<br>A-269 T347 | A-213 T347                             | A-403 T347               | A-182 T347     | A-240 T47    |
| <b>ALUMINUM ALLOYS</b>                          |                                        |                                        |                          |                |              |
| 6061T6                                          | B-241                                  | B-210<br>B-234<br>B-483                | B-361                    | B-247          | B-221        |
| <b>NICKEL ALLOYS</b>                            |                                        |                                        |                          |                |              |
| Alloy 20<br>Alloy 20CB3                         | B-464<br>B-729<br>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<br>B-622                         | B-622<br>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.

# Astm Aisi Cross Reference Guide

**CL Gary**



## **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 **ASM Metals Reference Book**, 1983 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 **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 *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      *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      **Metals & Alloys in the Unified Numbering System** ,1989      *Worldwide Guide to Equivalent Irons and Steels* Fran Cverna,2006-01-01 More than 30 000 listings are presented in this edition with increased coverage from major steel producing countries such as China India and Japan      **Industrial Standardization and Commercial Standards Monthly** ,1942

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