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Alloys **Monel, Inconel, Nickel, and Nickel Alloys** Aerospace Series. Zinc-Nickel (12 %-16 % Ni) Plating of Steels with Specified Tensile Strength $3L 1 450 MPa, Copper Alloys, Nickel Alloys and Aluminium Alloys for Parts and Fasteners **Corrosion of Weldments Nickel Steels and Other Nickel Alloys in Bridge Construction** Alloy Steels *Nickel Alloy Steels* **Nickel Steels and Other Nickel Alloys in Bridge Construction Tensile Properties of Some Structural Alloy Steels at High Temperatures (Classic Reprint)** The Mechanical Properties of Nickel Alloy Steels **Nickel Alloy Steels** Steels and nickel alloys for fasteners with specified elevated and/or low temperature properties The Mechanical Properties of Nickel Alloy Steels **The Attributes of Nickel Alloy Steels The Attributes of Nickel Alloy Steels. Vol 5, Dependability Nickel Steel Topics Hardenability of Nickel Alloy Steels Nickel Alloy Steels Data Book The Mechanical Properties of Nickel Alloy Steels Alloying**

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Excerpt from Alloy Steels Nickel steel is used to a large extent in the construction of high-grade machinery, and can be purchased in the open market in almost any percentages of nickel up to 35 percent, and with the carbon component varying between 0.10 and 1.00 percent. Nickel was added to carbon steel as the result of investigations which were started for the purpose of overcoming the "sudden rupture" that is inherent in all carbon steel. This property or tendency of carbon steel to rupture is the subject of numerous investigations by the railroads of the country at the present time, owing to the many accidents that have occurred in the past few years due to broken rails. Nickel added to steel largely overcomes this tendency, and nickel steel is used successfully for parts of machinery that have to withstand severe shocks and torsion, such as the crankshafts and connecting-rods of internal combustion engines, propeller shafts, automobile axles, and other parts of a similar nature which have to withstand similar strains and stresses. If nickel is added to steel in any percentage not exceeding 8 percent, the tensile strength and the elastic limit of the steel will increase with the percentage of nickel. If the percentage of nickel is above 8 percent, but less than 15 percent, its effect on the steel becomes, for some reason, entirely neutralized and brittleness is produced. If the nickel percentage, however, is above 15 percent, then the strength and elasticity become practically equal to that of the nickel steels with percentages of nickel less than 8 percent. If the nickel percentage is increased above 20 percent, the strength and elastic limit gradually decrease, but the elongation increases. The elongation shows a slight rise until about 3 per cent of

nickel is added to the steel, and after that it shows a rapid decrease, until the zone of brittleness is reached, when it becomes nil. With from 20 to 25 per cent nickel, the elongation again rapidly rises, and from that point to 100 per cent it shows a slight increase. The best results, therefore, in steels that are used for machine parts are obtained with a nickel content of 3 1/2 per cent, although for some purposes 5 percent nickel steel is used at a sacrifice of the elongation. Beneficial Effects of Nickel in Heat Treatment The qualities of carbon steel are susceptible of change by heat treatment the same as are those of alloy steels, but the higher the carbon content is the more likely is the steel to burn and thereby reduce its strength, and it is extremely difficult to caseharden steels which contain more carbon than does mild steel without destroying their good qualities and strengths. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works. Nickel is probably the most versatile of the metallic elements. Among alloys containing nickel are some having high corrosion resistance and others that retain excellent strength and ductility from temperatures approaching ab solute zero to those near 2000 F. Some nickel alloys are strongly magnetic, others are virtually nonmagnetic; some have low rates of thermal expansion, others have high rates; some have high electrical resistivities; some have practically constant moduli of elasticity; one has an "elastic" memory. In addition, nickel is magnetostrictive. With this wide range of characteristics, it is not

surprising that there are several thousand alloys containing nickel. It is impossible to consider all of these compositions in this publication and, therefore, several alloys in each of a number of categories have been selected to indicate the properties to be expected of the group. Low-alloy and constructional nickel-containing steels have been excluded on two grounds. To do them justice would require excessive space and, in addition, their applications differ generally from these of the materials under discussion. On the other hand, nickel-containing stainkss steels have been included because many of their applications fall into the same areas as those of a number of the high-nickel alloys. Many of the compositions discussed are proprietary alloys and they are protected by trademarks. A list of the trademarks and their owners is in cluded in the appendix. Heat-resistant materials, Steels, Nickel alloys, Wrought steels, Ferritic steels, Austenitic steels, Sheet materials, Strips, Bars (materials), Classification systems, Designations, Delivery, Chemical composition, Compositional tolerances, Mechanical properties of materials, Inspection, Approval testing, Performance testing, Tensile strength, Elongation at fracture, Proof stress, Marking, Dimensions, Samples, Testing conditions, Surfaces, Finishes, Creep, Thermal resistance, Heat treatment, Temperature, Physical properties of materials There are certain key alloys, stainless steels, nickel alloys, and low alloy steels that are of paramount importance to the power generation, petrochemical, and oil and gas industries. Addressing the significance of such alloys and their role in these fundamental industries, The Alloy Tree includes the following key features: * a short introduction and a master flow diagram that shows the interrelationship between the main alloy groups * a detailed exploration of how stainless steels, nickel alloys, and some low alloy steels have evolved from plain carbon steel * an explanation in each chapter of the background, development, key properties, and applications of the alloy type covered. Corrosion failures of industrial

components are commonly associated with welding. The reasons are many and varied. For example, welding may reduce the resistance to corrosion and environmentally assisted cracking by altering composition and microstructure, modifying mechanical properties, introducing residual stress, and creating physical defects. This book details the many forms of weld corrosion and the methods used to minimize weld corrosion. Chapters on specific alloys groups--carbon and alloy steels, stainless steels, high-nickel alloys, and nonferrous alloys--describe both general welding characteristics and the metallurgical factors that influence corrosion behavior. Corrosion problems associated with dissimilar metal weldments are also examined. Case histories document corrosion problems unique to specific industries including oil and gas, chemical processing, pulp and paper, and electric power. Special challenges caused by high-temperature environments are discussed. Commonly used methods to monitor weld corrosion and test methods for evaluation of intergranular, pitting, crevice, stress-corrosion cracking, and other forms of corrosion are also reviewed. Alloy steels, Unalloyed steels, Stainless steels, Austenitic steels, Nickel steels, Steels, Nickel-containing alloys, Nickel alloys, Alloys, Bars (materials), Semi-finished products, Heat treatment, Fasteners, Environment (working), Low temperatures, High temperatures, Dimensions, Dimensional tolerances, Diameter, Weight measurement, Classification systems, Designations, Instructions for use, Consumer-supplier relations, Ordering, Chemical composition, Compositional tolerances, Mechanical testing, Hardness testing, High-temperature testing, Low-temperature testing, Surface treatment, Inspection, Certificates of conformity, Sampling methods, Test specimens, Specimen preparation, Testing conditions, Position, Chemical analysis and testing, Determination of content, Tensile testing, Impact testing, Elongation at fracture, Strength of materials, Marking, Density, Modulus of elasticity, Thermal properties of materials, Creep, Deformation This book evaluates the latest developments in

nickel alloys and high-alloy special stainless steels by material number, price, wear rate in corrosive media, mechanical and metallurgical characteristics, weldability, and resistance to pitting and crevice corrosion. Nickel Alloys is at the forefront in the search for the most economic solutions to c Alloying: Understanding the Basics, is a comprehensive guide to the influence of alloy additions on mechanical properties, physical properties, corrosion and chemical behavior, and processing and manufacturing characteristics. The coverage considers alloying, to include any addition of an element or compound that interacts with a base metal to influence properties. Thus, the book addresses the beneficial effects of major alloy additions, inoculants, dopants, grain refiners, and other elements that have been deliberately added to improve performance, as well as the detrimental effects of minor elements or residual (tramp) elements included in charge materials, or that result from improper melting or refining techniques. The content is presented in a concise, user-friendly format. Numerous figures and tables are provided. The coverage has been weighted to provide the most detailed information on the most industrially important materials. Contents include: Principles of alloying; Cast irons; Carbon and alloy steels; High-strength low-alloy steels; Tool steels; Maraging and high-fracture-toughness steels; Austenitic manganese steels; Stainless steels; Superalloys; Refractory metal alloys; Ordered intermetallics (nickel, iron, and titanium aluminides); Aluminum alloys; Titanium alloys; Magnesium alloys; Copper alloys; Nickel alloys; Zinc alloys; Tin alloys; Lead alloys; Cobalt alloys; Noble metal alloys; Special-purpose materials (cemented carbides, cermets, low-expansion alloys, electrical contact alloys, magnetic alloys); Index. This book is a comprehensive guide to the compositions, properties, processing, performance, and applications of nickel, cobalt, and their alloys. It includes all of the essential information contained in the ASM Handbook series, as well as new or updated coverage in many areas in the nickel, cobalt,

and related industries. This handbook is derived from the online reference "Corrosion Handbook", bringing together the relevant information about corrosion protection and prevention for steels, one of the most widely used materials. It provides comprehensive information, including tabulated data and references, on the corrosion properties of the following materials: Unalloyed steels and cast steel, unalloyed cast iron, high-alloy cast iron, high-silicon cast iron, structural steels with up to 12% chromium, ferritic chromium steels with more than 12% chromium, ferritic-austenitic steels with more than 12% chromium, high-alloy multiphase steels, ferritic/perlitic-martensitic steels, ferritic-austenitic steels/duplex steels, austenitic chromium-nickel steels, austenitic chromium-nickel-molybdenum steels, austenitic chromium-nickel steels with special alloying additions, special iron-based alloys, and zinc. The following corrosive media are considered: Seawater, brackish water, industrial waste water, municipal waste water, drinking water, high-purity water. The most up-to-date coverage of welding metallurgy aspects and weldability issues associated with Ni-base alloys Welding Metallurgy and Weldability of Nickel-Base Alloys describes the fundamental metallurgical principles that control the microstructure and properties of welded Ni-base alloys. It serves as a practical how-to guide that enables engineers to select the proper alloys, filler metals, heat treatments, and welding conditions to ensure that failures are avoided during fabrication and service. Chapter coverage includes: Alloying additions, phase diagrams, and phase stability Solid-solution strengthened Ni-base alloys Precipitation strengthened Ni-base alloys Oxide dispersion strengthened alloys and nickel aluminides Repair welding of Ni-base alloys Dissimilar welding Weldability testing High-chromium alloys used in nuclear power applications With its excellent balance between the fundamentals and practical problem solving, the book serves as an ideal reference for scientists, engineers, and technicians, as well as a textbook for undergraduate and

graduate courses in welding metallurgy. STEELS, AIR TRANSPORT, METALS, INSPECTION, ULTRASONICS, TEST METHODS, COPPER ALLOYS Excerpt from Tensile Properties of Some Structural Alloy Steels at High Temperatures In 1913 Schulz4 reviewed available data relating to the high temperature properties of turbine materials, but the information presented for alloy steels was, in large part, for those containing varying proportions Of nickel. Guillet5 reported, among several special alloys for use at high temperatures, a steel containing nickel, chromium, and tungsten which showed exceptionally high strength at 750 to 800 C (1380 to 1470 F). About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works. Derived from the online reference "Corrosion Handbook", this handbook brings together all the relevant information on corrosion protection and prevention for nickel-based materials, all in a convenient and easy-to-use format. As such, it provides scientists and engineers manufacturing and utilizing these materials with comprehensive information, including tabulated data and references, on their corrosion behavior when in contact with acids and hydroxides.

- Engineering Properties Of Nickel And Nickel Alloys
- The Alloy Tree

- Nickel Alloys And High Alloy Special Stainless Steels
- Nickel And Its Alloys
- Corrosion Resistance Of Steels Nickel Alloys And Zinc In Aqueous Media
- Practical Handbook Of Stainless Steels Nickel Alloys
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- Welding Metallurgy And Weldability Of Nickel Base Alloys
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- Invar And Related Nickel Steels
- Steels And Nickel Alloys For Fasteners With Specified Elevated And or Low Temperature Properties
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