

INDUSTRIAL HEATING



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4130 and 4140 Heat Treatments

June 8, 2011

Daniel H. Herring

Question:

I have two questions for you. First, what is the big difference between 4130 and 4140 steels? What is the heat-treat range for these? I need to wind up with a hardness of 25-32 HRC.

Answer:

I'm glad to be of assistance. Here's some information about these steels that you might find useful. Also, you should consider reviewing the references shown before for more information on these materials.

4130 is a medium-carbon (nominal 0.30%C) chromium-molybdenum alloy steel. Due to its carbon content, it is most often water quenched to attain a maximum as-quenched hardness of approximately 48 HRC.

By contrast, 4140 is a medium-carbon (nominal 0.40%C) chromium-molybdenum alloy steel that is most often oil quenched to attain an as-quenched hardness ranging from about 54-59 HRC (as quenched), depending on the precise carbon content (which affects the hardenability of the material).

Heat-treatment results (hardness, microstructure, properties) are dependent on such factors as the exact material chemistry, part section thickness and the method of heat treatment.

For 4130 steel, the recommended heat treatment [1] consists of heating to austenitizing temperature, typically 1600°F (870°C), followed by water quenching. Water quenching will achieve

4130 Heat Treating Guide

Krishan Katyal



4130 Heat Treating Guide:

Heat Treatment of Gears A. K. Rakhit, 2000 Annotation Rakhit wants other engineers to avoid the considerable trouble he had understanding the art of gear heat treatment when he first embarked on a career in gear design and manufacturing He explains how heat treating and gears made of some kinds of steel gives the gears high geometric accuracy but can also distort them and raise the cost of manufacturing so a gear engineer needs to excel in manufacturing lubrication life and failure analysis and machine design as well as design He presents a case history of each successful gear heat treatment process that provide information on the quality of gear that can be expected with the proper control of material and processes Annotation copyrighted by Book News Inc Portland OR 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 Baughman's Aviation Dictionary and Reference Guide Harold Eugene Baughman, 1842 Principles of the Heat Treatment of Plain Carbon and Low Alloy Steels Charlie R. Brooks, This invaluable resource book will help you immeasurably in determining which steel and heat treatment process will best meet your needs It reviews current methods both quantitative and correlative in determining hardness or strength You get a brief review of the concepts behind the common method of graphically depicting decomposition of austenite the time temperature transformation TTT diagram It s followed by the ways of calculating hardenability from chemical composition and austenite grain size Heat transfer during quenching is also discussed including temperature time curves for various shapes like bars and plates Subsequent tempering is analyzed for you in great detail along with austenitizing annealing normalizing martempering austempering and intercritical heat treatment Thoroughly up to date this book also covers computer modeling of heat treatment processes **The Race Car Chassis HP1540** Forbes Aird, 2008-09-02 This invaluable handbook on the structural design and science behind the race car chassis includes sections on materials and structures structural loads a brief overview of suspension and chassis design multi tube and space frame chassis joining ferrous metals stressed skin construction and joining light alloys Heat Treatment of High-strength Steels for Airframe Applications Robert John Fiorentino, Donald B. Roach, A. M. Hall, 1959 *Essential Guide to Metals and Manufacturing* Krishan Katyal, 2019-04-30 This book is intended for new owners engineers technicians purchasing agents chief operating officers finance managers quality control managers sales managers or other employees who want to learn and grow in metal manufacturing business The book covers the following 1 Basic metals their selection major producers and suppliers websites 2 Manufacturing processes such as forgings castings steel fabrication sheet metal fabrication and stampings and their equipment suppliers websites 3 Machining and finishing processes and equipment suppliers websites 4 Automation equipment information and websites of their suppliers 5 Information about engineering drawings and quality

control 6 Lists of sources of trade magazines technical books that will provide more information on each subject discussed in the book *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

Construction and Testing of the Cone Sounding Device ,1952 **Airframe Test Guide 2000** Dale Crane,FAA Staff,1999-05 Aviation Unit and Intermediate Maintenance Manual ,1989 **Energy Abstracts for Policy Analysis** ,1982 Handbook of Metallurgical Process Design George E. Totten,Kiyoshi Funatani,Lin Xie,2004-05-25 Reviewing an extensive array of procedures in hot and cold forming casting heat treatment machining and surface engineering of steel and aluminum this comprehensive reference explores a vast range of processes relating to metallurgical component design enhancing the production and the properties of engineered components while reducing manufacturing costs It surveys the role of computer simulation in alloy design and its impact on material structure and mechanical properties such as fatigue and wear It also discusses alloy design for various materials including steel iron aluminum magnesium titanium super alloy compositions and copper Backpacker ,1981-04 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured **"Engineers".** ,1928

Scientific and Technical Aerospace Reports ,1984 *Airframe Test Guide* Dale Crane,2001-09 Metal Cutting Theory and Practice David A. Stephenson,John S. Agapiou,2005-12-02 Metal cutting applications span the entire range from mass production to mass customization to high precision fully customized designs The careful balance between precision and efficiency is maintained only through intimate knowledge of the physical processes material characteristics and technological capabilities of the equipment and workpieces involved The best selling first edition of Metal Cutting Theory and Practice provided such knowledge integrating timely research with current industry practice This brilliant reference enters its second edition with fully updated coverage new sections and the inclusion of examples and problems Supplying complete up to date information on machine tools tooling and workholding technologies this second edition stresses a physical understanding of machining processes including forces temperatures and surface finish This provides a practical basis for troubleshooting and evaluating vendor claims In addition to updates in all chapters the book features three new chapters on cutting fluids agile and high throughput machining and design for machining The authors also added examples and problems for additional hands on insight Rounding out the treatment an entire chapter is devoted to machining economics and optimization Endowing you with practical knowledge and a fundamental understanding of underlying physical concepts Metal Cutting Theory and Practice Second Edition is a necessity for designing evaluating purchasing and using machine tools Industrial

Furnaces, Ovens and Heat Treating Equipment United States. Defense Logistics Agency, 1983

Welder's Handbook

Richard Finch, 2007-02-21 A newly updated state of the art guide to MIG and TIG arc welding technology Written by a noted authority in the field this revised edition of HP's bestselling automotive book for over 20 years is a detailed instructional manual on the theory technique equipment and proper procedures of metal inert gas MIG and tungsten inert gas TIG welding

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **4130 Heat Treating Guide**

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