

Alloys	Elastic modulus (GPa)	Yield strength $\sigma_{0.2}$ (MPa)	Creep strength σ_c^T (MPa)	Rupture strength σ_r^T (MPa)
Superalloys				
Carpenter 19-9DL		138 at 815°C	$\sigma_{1 \times 10^{-3}}^{732^\circ C} = 36$	$\sigma_{1 \times 10^3}^{816^\circ C} = 59$
Incoloy 556™	148 at 800°C	220 at 760°C	$\sigma_{1 \times 10^{-3}}^{760^\circ C} = 59$	
Aktiebolag 253 MA	115 at 760°C	110 at 750°C	$\sigma_{1 \times 10^{-3}}^{760^\circ C} = 29$	
Haynes R-41	169 at 800°C	752 at 760°	$\sigma_{1 \times 10^{-3}}^{732^\circ C} = 234$	$\sigma_{1 \times 10^3}^{816^\circ C} = 165$
Inconel 625	160 at 760°C	421 at 760°	$\sigma_{1 \times 10^{-3}}^{760^\circ C} = 234$	$\sigma_{1 \times 10^3}^{816^\circ C} = 96$
Pyromet 680	144 at 816°C	241 at 760°	$\sigma_{1 \times 10^{-3}}^{732^\circ C} = 55$	$\sigma_{1 \times 10^3}^{816^\circ C} = 62$
Stainless steels				
AL 446	200 at RT	275* at RT 55* at 760°C	$\sigma_{1 \times 10^{-3}}^{760^\circ C} = 7.6$	$\sigma_{1 \times 10^3}^{760^\circ C} = 13.5$
Carpenter 443	200 at RT	345 at RT 41 at 760°C	$\sigma_{1 \times 10^{-4}}^{704^\circ C} = 7.0$	
AL 439 HP™	200 at RT	310 at RT 48 at 760°C		$\sigma_{1 \times 10^3}^{816^\circ C} = 7.0$
AL 441 HP™	200 at RT	290 at RT 58 at 760°C		$\sigma_{1 \times 10^3}^{816^\circ C} = 11.0$

* Minimum as required.

High Temperature Properties Of Metals

George C. Deutsch



High Temperature Properties Of Metals:

High-temperature Property Data Michael F. Rothman, ASM International, 1988 This volume organizes information by alloy so that pertinent data can be found easily Physical and mechanical properties from room temperature to temperatures in excess of 100 C are shown graphically or in tabular form All data is thoroughly referenced Now high temperature property data can be found in one complete reference Over 200 alloys are organized by AISI number into 11 major sections Irons Carbon Steels Alloy Steels ASTM Steels Low Alloy Constructional Steels Ultra High Strength Steels Tool Steels Maraging Steels Wrought Stainless Steels Heat Resistant Casting Alloys and Wrought Iron Nickel Alloys and Iron Nickel Superalloys Each alloy record lists the designation specifications UNS number composition product forms and a comment on the high temperature properties and applications Data is then given for physical properties such as density specific heat thermal conductivity thermal expansion electrical conductivity Poissons ratio moduli of elasticity and rigidity etc Mechanical properties follow and include tensile properties shearing and bearing properties impact properties creep stress rupture and stress relaxation and fatigue properties The last part of the alloy record gives other effects of temperature such as hot hardness corrosion and growth

High Temperature Materials Metallurgical Society of AIME. High Temperature Alloys

Committee, 1959 *High Temperature Properties of Metals* American Society for Metals, Earl Randall Parker, 1951 *Low Temperature Mechanical Properties of Copper and Selected Copper Alloys* Richard Palmer Reed, Ritchie P. Mikesell, 1967

Journal of Research of the National Bureau of Standards United States. National Bureau of Standards, 1980

Elevated-temperature Properties of Several Titanium Carbide Base Ceramals George C. Deutsch, 1949 On a strength to weight ratio basis ceramals appeared promising as gas turbine blade materials in the temperature range of 1600 to 2400 degrees F *Transactions of the American Society of Mechanical Engineers* American Society of Mechanical Engineers, 1929 Vols 2 4 11 62 68 include the Society s Membership list v 55 80 include the Journal of applied mechanics also issued separately as contributions from the Society s Applied Mechanics Division **A Selected Listing of NASA**

Scientific and Technical Reports for ... United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1966 NASA Scientific and Technical Reports United States. National Aeronautics and

Space Administration Scientific and Technical Information Division, 1967 *Department of the Interior and Related Agencies Appropriations for 1965* United States. Congress. House. Committee on Appropriations, 1964 Department of the Interior except Bonneville Power Administration Bureau of Reclamation Southeastern Power Administration and

Southwestern Power Administration Related Agencies including Forest Service *High-Temperature Brazing in Controlled Atmospheres* G. Sheward, 2013-10-22 High Temperature Brazing in Controlled Atmospheres provides a discussion regarding the fundamentals applications and the potential of the brazing process Comprised of eight chapters the book covers several topics concerning the metallurgical process in brazing Chapter 1 discusses the general bonding techniques while Chapter 2

talks about the factors that affect the design of components to be joined by brazing and the theoretical aspects of the process that will influence design Chapter 3 provides advices about the availability and properties of filler metals used in brazing while Chapter 4 discusses furnaces Chapter 5 tackles the atmospheric factors to consider in brazing and Chapter 6 covers the brazing process itself Chapter 7 talks about the applications of brazing in various settings and Chapter 8 deals with quality control The book will be of great use for technicians designers and engineering students or any other professionals whose work involves the brazing process

The Bureau of Standards Gustavus Adolphus Weber,1925 **Fundamental Nuclear Energy Research** U.S. Atomic Energy Commission. Division of Plans and Reports,U.S. Atomic Energy

Commission,1963 **Report** United States. National Bureau of Standards,1924 Iron Age ,1923 **NBS Monograph** ,1959 **DeGarmo's Materials and Processes in Manufacturing** J. T. Black,Ronald A. Kohser,2020-07-21

Guiding engineering and technology students for over five decades DeGarmo s Materials and Processes in Manufacturing provides a comprehensive introduction to manufacturing materials systems and processes Coverage of materials focuses on properties and behavior favoring a practical approach over complex mathematics analytical equations and mathematical models are only presented when they strengthen comprehension and provide clarity Material production processes are examined in the context of practical application to promote efficient understanding of basic principles and broad coverage of manufacturing processes illustrates the mechanisms of each while exploring their respective advantages and limitations Aiming for both accessibility and completeness this text offers introductory students a comprehensive guide to material behavior and selection measurement and inspection machining fabrication molding fastening and other important processes using plastics ceramics composites and ferrous and nonferrous metals and alloys This extensive overview of the field gives students a solid foundation for advanced study in any area of engineering manufacturing and technology

A Selected Listing of NASA Scientific and Technical Reports for 1966 United States. National Aeronautics and Space Administration. Scientific and Technical Information Division,1967

Mechanical Engineering American Society of Mechanical Engineers,1947
Transactions of the Institution of Chemical Engineers Institution of Chemical Engineers (Great Britain),1927

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