

The CRC Materials Science & Engineering Handbook

Platform: Windows

Requires Mathcad 3.1 or higher, 5 MB hard disk space

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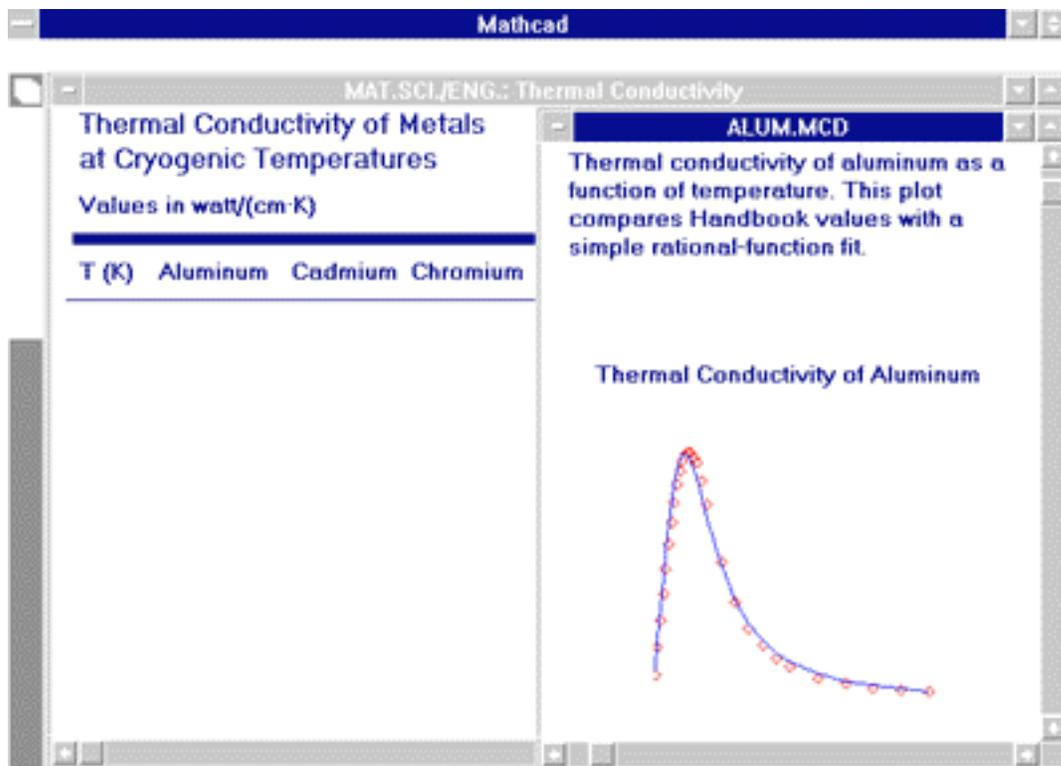


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[Table of Contents](#)

[Product Sample](#)

[Back to Product List](#)



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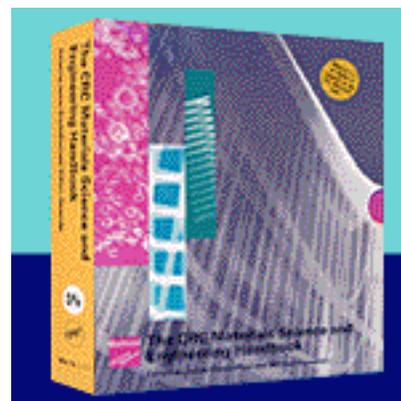
Topics include: Properties of Superconducting Elements, Engineering Ceramics and Superconducting Compounds, Crystal Systems and Bravais Lattices, Mechanical Properties of Selected Irons and Steels, Hardness and Resistivities of Ceramics and Polymers, and more.

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The CRC Materials Science & Engineering Handbook

TABLE OF CONTENTS (page 1 of 5)



Section 1: THE ELEMENTS

- Elements for Engineering Materials
- Elements in the Earth's Crust
- The Periodic Table of the Elements
- Available Stable Isotopes
- Electronic Structure of Selected Elements
- Properties of Selected Elements
- Melting Points of Selected Elements
- Densities of Selected Elements
- Crystal Structures of the Elements
- Atomic and Ionic Radii of the Elements
- Atomic Radii of the Elements (Listed by Value)
- Ionic Radii of the Elements (Listed by Value)
- Selected Properties of Superconductive Elements
- T_c for Thin Films of Superconductive Elements

Section 2: ENGINEERING COMPOUNDS

- Engineering Ceramics
- Refractories, Ceramics, and Salts
- High Temperature Superconducting
- Crystal Structure Types
- Critical Temperature Data for Type II Superconducting Compounds
- Selected Superconducting Compounds and Alloys: Critical Field Data
- T_c Data for High Temperature Superconducting Compounds

Section 3: BONDING, THERMODYNAMIC, AND KINETIC DATA

- Bond Strengths in Diatomic Molecules (Listed by Molecule)
- Bond Strengths in Diatomic Molecules (Listed by Value)
- Bond Strengths of Polyatomic Molecules (Listed by Molecule)
- Bond Strengths of Polyatomic Molecules (Listed by Value)
- Carbon Bond Lengths (Periodic Table Representation)
- Carbon Bond Lengths

[Product Sample](#)

[Back to Product List](#)

The CRC Materials Science & Engineering Handbook

TABLE OF CONTENTS (page 2 of 5)

Bond Length Values between Elements (Listed by Bond)
Bond Length Values between Elements (Listed by Value)
Bond Angle Values between Elements (Listed by Bond)
Bond Angle Values between Elements (Listed by Value)
Heats of Formation of Selected Inorganic Oxides
Heats of Sublimation (at 25°C) of Selected Metals and Their Oxides
Melting Points of Selected Elements and
Inorganic Compounds (Listed by Element or Compound)
Melting Points of Selected Elements and Inorganic Compounds (Listed by
Melting Point)
Melting Points of Ceramics (Listed by Compound)
Melting Points of Ceramics (Listed by Melting Point)
Heats of Fusion for Selected Elements and Inorganic Compounds
Surface Tension of Liquid Elements
Vapor Pressure of the Elements (Very Low Pressures)
Vapor Pressure of the Elements (Moderate Pressures)
Vapor Pressure of the Elements (High Pressures)
Specific Heat of Selected Elements at 25°C (Listed by Element)
Specific Heat of Selected Elements at 25°C (Listed by Specific Heat)
Heat Capacity of Selected Ceramics
Specific Heat of Selected Polymers
Phase Change Thermodynamic Properties for Selected Elements
Phase Change Thermodynamic Properties for Selected Oxides
Thermodynamic Coefficients
Thermodynamic Coefficients for Selected Elements
Thermodynamic Coefficients for Selected Oxides
Thermal Conductivity of Metals at Cryogenic Temperatures
Thermal Conductivity of Metals at 100 to 3000K
Thermal Conductivity of Selected Ceramics
Thermal Conductivity of Special Concretes
Thermal Conductivity of Cryogenic Insulation and Supports
Thermal Conductivity of Cryogenic Insulation Supports 20 - 300K
Thermal Conductivity of Selected Polymers
Thermal Expansion of Selected Tool Steels
Thermal Expansion and Thermal
Conductivity of Selected Alloy Cast Irons
Thermal Expansion of Selected Ceramics
Thermal Expansion Coefficients for Materials Used in
Integrated Circuits
Thermal Expansion of Selected Polymers
Values of the Error Function



[Product Sample](#)

[Back to Product List](#)

The CRC Materials Science & Engineering Handbook

TABLE OF CONTENTS (page 3 of 5)

Diffusion in Selected Metallic Systems
Diffusivity Values of Metals into Metals
Diffusion in Some Nonmetallic Systems
Diffusion in Semiconductors
Temper Designation System for Aluminum Alloys

Section 4: STRUCTURE, COMPOSITIONS, AND PHASE DIAGRAMS

The Seven Crystal Systems
The Fourteen Bravais Lattices
Structure of Selected Ceramics
Density of Selected Tool Steels
Density of Selected Alloy Cast Irons
Density of Selected Ceramics
Specific Gravity of Selected Polymers
Composition Limits of Selected Tool Steels
Composition Limits of Selected Gray Cast Irons
Composition Limits of Selected Ductile Irons
Composition Ranges for Selected Malleable Irons
Composition Ranges for Selected Carbon Steels
Composition Ranges for Selected Resulfurized Carbon Steels
Composition Ranges for Selected Alloy Steels
Composition Ranges for Selected Cast Aluminum Alloys
Composition Ranges for Selected Wrought Aluminum Alloys
Typical Composition of Selected Glass-Ceramics
Phase Diagram Sources

Section 5: MECHANICAL PROPERTIES

Mechanical Properties of Selected Tool Steels
Tool Steel Softening after 100 Hours for Various Temperatures
Mechanical Properties of Selected Gray Cast Irons
Mechanical Properties of Selected Ductile Irons
Average Mechanical Properties of Treated Ductile Irons
Mechanical Properties of Selected Malleable Iron Castings
Young's Modulus of Selected Ceramics
Modulus of Elasticity in Tension for Selected Polymers
Poisson's Ratio for Selected Ceramics



[Product Sample](#)

[Back to Product List](#)

The CRC Materials Science & Engineering Handbook



TABLE OF CONTENTS (page 4 of 5)

Yield Strength of Selected Cast Aluminum Alloys (Listed by Alloy)
Yield Strength of Selected Cast Aluminum Alloys (Listed by Value)
Yield Strength of Selected Wrought Aluminum Alloys (Listed by Alloy)
Yield Strength of Selected Wrought Aluminum Alloys (Listed by Value)
Yield Strength of Selected Polymers
Tensile Strength of Selected Aluminum Casting Alloys (Listed by Alloy)
Tensile Strength of Selected Aluminum Casting Alloys (Listed by Value)
Tensile Strength of Selected Wrought Aluminum Alloys (Listed by Alloy)
Tensile Strength of Selected Wrought Aluminum Alloys (Listed by Value)
Tensile Strength of Selected Ceramics
Tensile Strength of Selected Polymers
Total Elongation of Selected Cast Aluminum Alloys (Listed by Alloy)
Total Elongation of Selected Cast Aluminum Alloys (Listed by Value)
Total Elongation of Selected Polymers
Elongation at Yield of Selected Polymers
Shear Strength of Selected Wrought Aluminum Alloys (Listed by Alloy)
Shear Strength of Selected Wrought Aluminum Alloys (Listed by Value)
Hardness of Selected Wrought Aluminum Alloys (Listed by Alloy)
Hardness of Selected Wrought Aluminum Alloys (Listed by Value)
Hardness of Selected Ceramics
Hardness of Selected Polymers
Impact Strength of Selected Polymers
Compressive Yield Strength of Selected Polymers
Compressive Strength of Selected Polymers
Modulus of Elasticity in Flexure of Selected Polymers
Flexural Strength of Selected Polymers
Fatigue Strength of Selected Wrought Aluminum Alloys (Listed by Alloy)
Fatigue Strength of Selected Wrought Aluminum Alloys (Listed by Value)
Coefficient of Static Friction for Selected Polymers
Abrasion Resistance of Selected Polymers

[Product Sample](#)

[Back to Product List](#)

The CRC Materials Science & Engineering Handbook

TABLE OF CONTENTS (page 5 of 5)

Section 6: ELECTRICAL, MAGNETIC, AND OPTICAL PROPERTIES

Electrical Resistivity of Selected Alloy Cast Irons
Resistivity of Selected Ceramics
Volume Resistivity of Selected Polymers
Dielectric Strength of Selected Polymers
Dielectric Constant of Selected Polymers
Dissipation Factor for Selected Polymers
Arc Resistance of Selected Polymers
Dispersion of Optical Materials at 298K
Transmission Range of Glass-Ceramics at 298K
Transparency of Selected Polymers

Section 7: CHEMICAL PROPERTIES

Composition of Sea Water
Anions in Sea Water
Water Absorption of Selected Polymers
Flammability of Selected Polymers



[Product Sample](#)

[Back to Product List](#)

The CRC Materials Science & Engineering Handbook

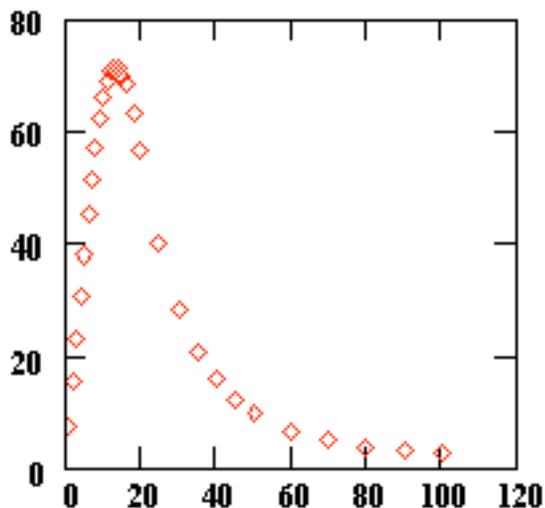


SAMPLE PAGE (page 1 of 3)

Thermal Conductivity of Metals at Cryogenic Temperatures

T (K)	Aluminum	Cadmium	Chromium	Copper	Gold
1	7.8	48.7	0.401	28.7	4.4
3	23.2	104	1.20	85.5	13.1
5	38.1	69.1	1.99	138	20.7
7	51.5	28.0	2.77	177	26.0
9	62.2	12.2	3.50	195	28.2
11	69.0	6.91	4.18	193	27.7
13	71.5	4.67	4.78	176	25.5
15	70.2	3.55	5.27	50	22.6
18	63.5	2.62	5.81	124	17.7
20	56.5	2.26	6.01	105	15.0
25	40.0	1.79	6.07	50	10.2
30	28.5	1.56	5.58	43	7.6
35	21.0	1.41	5.03	29	6.1
40	16.0	1.32	4.30	20.5	5.2
50	10.0	1.20	3.17	12.2	4.2
60	6.7	1.13	2.48	8.5	3.8
80	4.0	1.06	1.82	5.7	3.52
100	3.0	1.03	1.58	4.83	3.45

Thermal Conductivity of Aluminum (watt/cm·K) vs. Temperature (K)



[Table of Contents](#)

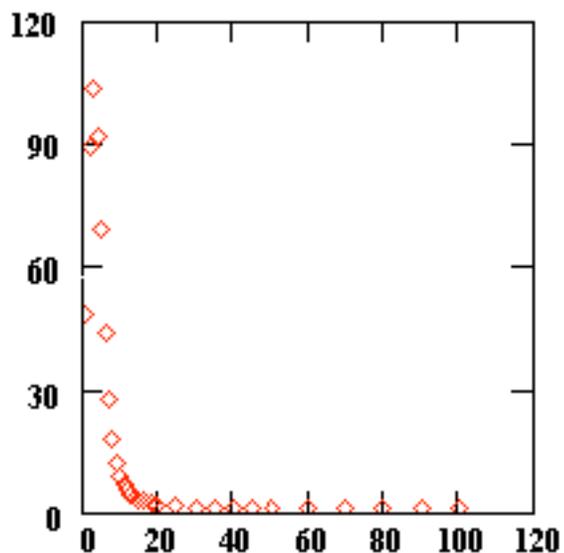
[Back to Product List](#)

The CRC Materials Science & Engineering Handbook

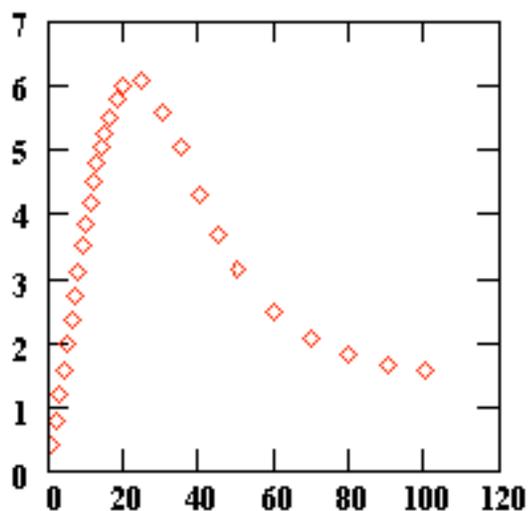


SAMPLE PAGE (page 2 of 3)

Thermal Conductivity of Cadmium (watt/cm·K) vs. Temperature (K)



Thermal Conductivity of Chromium (watt/cm·K) vs. Temperature (K)



[Table of Contents](#)

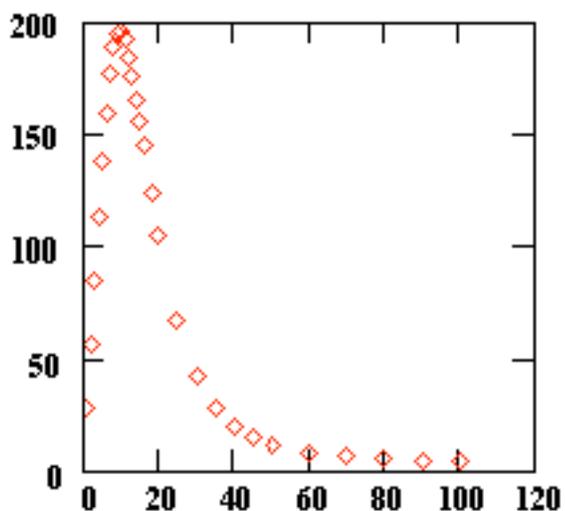
[Back to Product List](#)

The CRC Materials Science & Engineering Handbook

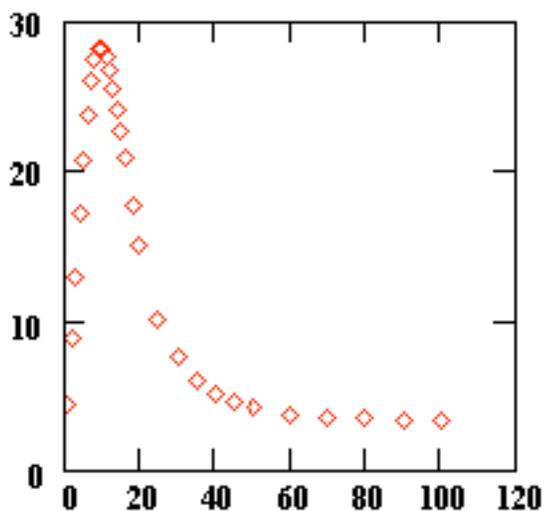
SAMPLE PAGE (page 3 of 3)



Thermal Conductivity of Copper (watt/cm·K) vs. Temperature (K)



Thermal Conductivity of Gold (watt/cm·K) vs. Temperature (K)



[Table of Contents](#)

[Back to Product List](#)