

Plansee Chromium, Cr; Sintered

Category : Metal , Nonferrous Metal , Pure Element

Material Notes:

Characteristics:High corrosion resistanceHigh wear resistanceBeautiful opticsLower melting point than other refractory metalsVery high vapor pressureLower density than other refractory metalsPossesses lower modulus of elasticity than molybdenum and tungstenApplications:Wear-resistant coatingComponent parts in high temperature fuel cellsDecorative coating for appliances and jewelryInformation provided by Plansee.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plansee-Chromium-Cr-Sintered.php

| Physical Properties | Metric | English | Comments |
|---------------------|-------------------------------------|------------------------------------|---------------------|
| Specific Gravity | 7.15 g/cc | 7.15 g/cc | |
| a Lattice Constant | 2.8847 Å | 2.8847 Å | body-centered cubic |
| Vapor Pressure | 0.00267 bar @Temperature 1800 °C | 2.00 torr @Temperature 3270 °F | |
| | 0.07161 bar @Temperature 2200 °C | 53.71 torr @Temperature 3990 °F | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|-----------|------------|
| Hardness, Vickers | 180 - 250 | 180 - 250 | |
| Modulus of Elasticity | 294 GPa | 42600 ksi | |
| Poissons Ratio | 0.21 | 0.21 | |
| Shear Modulus | 121 GPa | 17500 ksi | Calculated |

| Thermal Properties | Metric | English | Comments |
|------------------------|--------------|-----------------------------------|----------|
| CTE, linear | 6.20 µm/m-°C | 3.44 µin/in-°F | |
| Specific Heat Capacity | 0.450 J/g-°C | 0.108 BTU/lb-°F | |
| Thermal Conductivity | 93.7 W/m-K | 650 BTU-in/hr-ft ² -°F | |
| Melting Point | 1900 °C | 3450 °F | |
| Boiling Point | 2672 °C | 4842 °F | |

| Chemical Properties | Metric | English | Comments |
|---------------------|--------|---------|----------|
| Atomic Mass | 51.996 | 51.996 | |

| Chemical Properties | Metric | English | Comments |
|---------------------|----------|----------|----------------|
| Atomic Volume | 1.2e-029 | 1.2e-029 | m ³ |

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