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Molybdenum, Mo
 (wt 100%)
 Material Notes

Physical Properties	Metric	English
Density	10.22 g/cc	0.369 lb/in ³
Mechanical Properties		
Tensile Strength, Ultimate	515 MPa	74700 psi
Tensile Strength, Yield	415 MPa	60200 psi
Modulus of Elasticity	330 GPa	47900 ksi
Elongation at Break	2 - 17 %	2 - 17 %
Compressive Yield Strength	400 MPa	58000 psi
Bulk Modulus	272 GPa	39500 ksi
Shear Modulus	120 GPa	17400 ksi
Shear Strength	500 MPa	72500 psi
Electrical Properties		
Electrical Resistivity	5.7e-006 ohm-cm	5.7e-006 ohm-cm
Magnetic Susceptibility	9.3e-007	9.3e-007
Critical Magnetic Field Strength, Oersted	93 - 99	93 - 99
Critical Superconducting Temperature	0.91 - 0.92 K	0.91 - 0.92 K
Thermal Properties		
Heat of Fusion	293 J/g	126 BTU/lb
CTE, linear 20°C	5.35 µm/m-°C	2.97 µin/in-°F
CTE, linear 250°C	6 µm/m-°C	3.33 µin/in-°F
CTE, linear 500°C	6 µm/m-°C	3.33 µin/in-°F
CTE, linear 1000°C	6.5 µm/m-°C	3.61 µin/in-°F
Heat Capacity	0.255 J/g-°C	0.0609 BTU/lb-°F
Thermal Conductivity	138 W/m-K	958 BTU-in/hr-ft ² -°F
Melting Point	2617 °C	4740 °F
Optical Properties		
Emissivity (0-1)	0.17	0.17
Reflection Coefficient, Visible (0-1)	0.46	0.46