

Technical Data Titanium

Physical Properties	Metric	English	Comments
Density	4.7 g/cc	0.17 lb/in ³	
Mechanical Properties			
Modulus of Elasticity	110 GPa	16000 ksi	
Poisson's Ratio	0.33	0.33	
Shear Modulus	42 GPa	6090 ksi	
Compressive Modulus	115 - 121 GPa	16700 - 17500 ksi	Estimated from tensile modulus
Electrical Properties			
Electrical Resistivity	0.00017 ohm-cm	0.00017 ohm-cm	
Thermal Properties			
CTE, linear 20°C	8.7 μm/m-°C	4.83 μin/in-°F	20-100°C
CTE, linear 250°C	9.2 μm/m-°C	5.11 μin/in-°F	20-250°C
Heat Capacity	0.525 J/g-°C	0.125 BTU/lb-°F	
Melting Point	1550 - 1600 °C	2820 - 2910 °F	
Solidus	1550 °C	2820 °F	
Liquidus	1600 °C	2910 °F	