



PALINEY® 25 NOMINAL ALLOY PROPERTIES*

for
fine wire products in the age hardened (“HT”) temper

Property	Nominal Values	
Solidus Temperature (Melting Point)	1090°C	1995°F
Liquidus Temperature	1165°C	2130°F
Density	10.6 g/cm ³	111.7 dwt/in ³
Specific Heat Capacity	0.28 J/g-K	0.067 Btu/lb-°F
Electrical Resistivity at 20°C (68°F)	6.3 μΩ-cm	
Electrical Conductivity at 20°C (68°F)	28%IACS	
Temperature Coefficient of Resistance (CTR)	1.32x10 ⁻³ /K	7.33x10 ⁻⁴ /°F
Thermal Conductivity**	116 W/m-K	67 Btu/hr-ft-°F
Knoop Microhardness	HK ₅₀ 400	
Yield Strength	965 MPa	140. ksi
Ultimate Tensile Strength	1240 MPa	180. ksi
Total Elongation	10%	
Modulus of Elasticity	135 GPa	19.6 Msi
Poisson’s Ratio	0.36	

* The information contained in this Data Sheet is intended to assist you in the use of this product. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular application. The user should determine the suitability of this material for each application. Data is subject to change without notice.

** Estimated from Wiedemann-Franz Law at 20°C

Values in red are estimated