



PLATINUM-10.5 WT% NICKEL NOMINAL ALLOY PROPERTIES*
for Ø0.0025 in wire in the cold worked (“CW”) temper

Property	Nominal Values	
Solidus Temperature (Melting Point)**	1540°C	2800°F
Liquidus Temperature**	1570°C	2860°F
Density	18.68 g/cm ³	196.9 dwt/in ³
Electrical Resistivity at 20°C (68°F)	30.5 µΩ-cm	
Electrical Conductivity at 20°C (68°F)	5.66%IACS	
Thermal Conductivity*** at 20°C (68°F)	23.5 W/m-K	13.6 Btu/hr-ft-°F
Yield Strength	1210 MPa	176 ksi
Ultimate Tensile Strength	1290 MPa	187 ksi
Total Elongation	4.5%	
Modulus of Elasticity	206 GPa	29.9 Msi
Poisson’s Ratio	0.364	

* 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 binary alloy phase diagram

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

Values in red are estimated