

California Fine Wire Nickel A 200 Nickel Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy

Material Notes:

All values may vary dependent on specific design and usage Capabilities: WireRibbonSquareInsulatedPlated Information provided by California Fine Wire.

Order this product through the following link:

http://www.lookpolymers.com/polymer_California-Fine-Wire-Nickel-A-200-Nickel-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.91 g/cc	0.322 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	414 MPa	60000 psi	Annealed
	793 MPa	115000 psi	Stress relieved
	931 MPa	135000 psi	Hard
Tensile Strength, Yield	172 MPa	25000 psi	Annealed
	552 MPa	80000 psi	Stress relieved
	724 MPa	105000 psi	Hard
Modulus of Elasticity	204 GPa	29600 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	13.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	7.22 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.456 J/g-°C	0.109 BTU/lb-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	61.6 W/m-K	428 BTU-in/hr-ft ² -°F	
Melting Point	1450 °C	2642 °F	
Maximum Service Temperature, Air	1100 °C	2010 °F	Operating Temperature

Component Elements Properties	Metric	English	Comments
Nickel, Ni	99 %	99 %	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000948 ohm-cm	0.0000948 ohm-cm	±5% tolerance on sizes below 0.02, 5% tolerance on sizes above 0.02

Descriptive Properties	Value	Comments
Magnetic	Strong	
Temperature Coefficient of Resistance	0.0048 ohms/ohm-°C	0-100°C
Thermal EMF vs. Copper	-0.022	

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