

California Fine Wire Nickel 220 Super Alloy

Category : Metal , Nonferrous Metal , Nickel Alloy , Superalloy , Pure Element

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-220-Super-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	345 MPa	50000 psi	Annealed
	552 MPa	80000 psi	Stress relieved
	689 MPa	100000 psi	Hard

Thermal Properties	Metric	English	Comments
CTE, linear	15.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	8.33 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	0.460 J/g-°C	0.110 BTU/lb-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	59.0 W/m-K	409 BTU-in/hr-ft ² -°F	
Melting Point	1450 °C	2642 °F	
Maximum Service Temperature, Air	932 °C	1710 °F	Operating Temperature

Component Elements Properties	Metric	English	Comments
Nickel, Ni	99.98 %	99.98 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000748 ohm-cm	0.00000748 ohm-cm	3% tolerance on sizes below 0.02, 5% tolerance on sizes above 0.02

Descriptive Properties	Value	Comments
Magnetic	Strong	

Temperature Coefficient of Resistance Descriptive Properties	0.0059 ohms/ohm- °C Value	0- 100°C Comments
Thermal EMF vs. Copper	-0.022	

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