

California Fine Wire Nickel 211 (Nickel Manganese 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-211-Nickel-Manganese-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.72 g/cc	0.315 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	517 MPa	75000 psi	Annealed
	793 MPa	115000 psi	Stress relieved
	965 MPa	140000 psi	Hard

Thermal Properties	Metric	English	Comments
Thermal Conductivity	49.3 W/m-K	342 BTU-in/hr-ft ² -°F	
Melting Point	1430 °C	2610 °F	
Maximum Service Temperature, Air	500 °C	932 °F	Operating Temperature

Component Elements Properties	Metric	English	Comments
Manganese, Mn	4.75 %	4.75 %	
Nickel, Ni	93.7 %	93.7 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000170 ohm-cm	0.0000170 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	0.0032 ohms/ohm-°C	0-100°C

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