

California Fine Wire Stablohm 650 Nickel Chromium Resistance Wire

Category : Metal , Electronic/Magnetic Alloy , 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-Stablohm-650-Nickel-Chromium-Resistance-Wire.php

Physical Properties	Metric	English	Comments
Density	8.41 g/cc	0.304 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	689 MPa	100000 psi	Annealed
	1210 MPa	175000 psi	Stress relieved
	1380 MPa	200000 psi	Hard

Thermal Properties	Metric	English	Comments
CTE, linear	14.5 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	8.06 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	11.3 W/m-K	78.4 BTU-in/hr-ft ² - $^\circ\text{F}$	
Melting Point	1395 $^\circ\text{C}$	2543 $^\circ\text{F}$	
Maximum Service Temperature, Air	1100 $^\circ\text{C}$	2010 $^\circ\text{F}$	Operating Temperature

Component Elements Properties	Metric	English	Comments
Chromium, Cr	20 %	20 %	
Nickel, Ni	80 %	80 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000108 ohm-cm	0.000108 ohm-cm	3% tolerance on sizes below 0.02, 5% tolerance on sizes above 0.02

Descriptive Properties	Value	Comments
Magnetic	None	
Temperature Coefficient of Resistance	0.000085 ohms/ohm- $^\circ\text{C}$	0-100 $^\circ\text{C}$

ThermalEMF in Copper
Descriptive Properties

+0.006
Value

Comments

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