

California Fine Wire Stablohm 675 Nickel, Chromium and Iron 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-675-Nickel-Chromium-and-Iron-Resistance-Wire.php

Physical Properties	Metric	English	Comments
Density	8.25 g/cc	0.298 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	655 MPa	95000 psi	Annealed
	1070 MPa	155000 psi	Stress relieved
	1210 MPa	175000 psi	Hard

Thermal Properties	Metric	English	Comments
CTE, linear	14.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	7.78 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	13.2 W/m-K	91.6 BTU-in/hr-ft ² - °F	
Melting Point	1350 °C	2462 °F	
Maximum Service Temperature, Air	900 °C	1650 °F	Operating Temperature

Component Elements Properties	Metric	English	Comments
Chromium, Cr	16 %	16 %	
Iron, Fe	24 %	24 %	as balance
Nickel, Ni	60 %	60 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000112 ohm-cm	0.000112 ohm-cm	3% tolerance on sizes below 0.02, 5% tolerance on sizes above 0.02

Descriptive Properties	Value	Comments
Magnetic	Faint	

Descriptive Properties	Value	Comments
Thermal EMF vs. Copper	+0.002	

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