

California Fine Wire Stablohm 610 Nickel, Chromium and Iron Resistance Wire

Category : Metal , Electronic/Magnetic Alloy , Ferrous Metal

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-610-Nickel-Chromium-and-Iron-Resistance-Wire.php

Physical Properties	Metric	English	Comments
Density	7.94 g/cc	0.287 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	621 MPa	90000 psi	Annealed
	965 MPa	140000 psi	Stress relieved
	1210 MPa	175000 psi	Hard

Thermal Properties	Metric	English	Comments
CTE, linear	15.6 $\mu\text{m}/\text{m}\cdot\text{°C}$	8.67 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@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	13.0 W/m-K	90.2 BTU-in/hr-ft ² -°F	
Melting Point	1300 °C	2372 °F	
Maximum Service Temperature, Air	980 °C	1800 °F	Operating Temperature

Component Elements Properties	Metric	English	Comments
Chromium, Cr	20 %	20 %	
Iron, Fe	45 %	45 %	as balance
Nickel, Ni	35 %	35 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000101 ohm-cm	0.000101 ohm-cm	3% tolerance on sizes below 0.02, 5% tolerance on sizes above 0.02

Descriptive Properties	Value	Comments
Magnetic	Faint	
Temperature Coefficient of Resistance	0.0004 ohms/ohm-°C	0-100°C

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