

California Fine Wire Stablohm 812 Chromium, Aluminum, and Iron Resistance Wire

Category : Metal , Electronic/Magnetic Alloy , Superalloy , Iron Base

Material Notes:

All values may vary dependent on specific design and usage. Capabilities: Wire, Ribbon, Square, Insulated, Plated. Information provided by California Fine Wire.

Order this product through the following link:

http://www.lookpolymers.com/polymer_California-Fine-Wire-Stablohm-812-Chromium-Aluminum-and-Iron-Resistance-Wire.php

Physical Properties	Metric	English	Comments
Density	7.25 g/cc	0.262 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	793 MPa	115000 psi	Annealed
	1210 MPa	175000 psi	Stress relieved
	1380 MPa	200000 psi	Hard

Thermal Properties	Metric	English	Comments
CTE, linear	11.8 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.56 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@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	19.0 W/m-K	132 BTU-in/hr-ft ² -°F	
Melting Point	1510 °C	2750 °F	
Maximum Service Temperature, Air	1177 °C	2151 °F	Operating Temperature

Component Elements Properties	Metric	English	Comments
Aluminum, Al	4.5 %	4.5 %	
Chromium, Cr	21 %	21 %	
Iron, Fe	74.5 %	74.5 %	as balance

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000135 ohm-cm	0.000135 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	0.00002 ohms/ohm-°C	0-100°C

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