

California Fine Wire Stablohm 875 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-875-Chromium-Aluminum-and-Iron-Resistance-Wire.php

Physical Properties	Metric	English	Comments
Density	7.11 g/cc	0.257 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	15.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	8.33 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@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	18.7 W/m-K	130 BTU-in/hr-ft ² -°F	
Melting Point	1520 °C	2768 °F	
Maximum Service Temperature, Air	1370 °C	2500 °F	Operating Temperature

Component Elements Properties	Metric	English	Comments
Aluminum, Al	5.5 %	5.5 %	
Chromium, Cr	22.5 %	22.5 %	
Iron, Fe	72 %	72 %	as balance

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000145 ohm-cm	0.000145 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
Thermal EMF vs. Copper	-6.4	

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