

## California Fine Wire Stablohm 750 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-750-Chromium-Aluminum-and-Iron-Resistance-Wire.php](http://www.lookpolymers.com/polymer_California-Fine-Wire-Stablohm-750-Chromium-Aluminum-and-Iron-Resistance-Wire.php)

Physical Properties	Metric	English	Comments
Density	7.31 g/cc	0.264 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	621 MPa	90000 psi	Annealed
	689 MPa	100000 psi	Stress relieved
	827 MPa	120000 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	21.0 W/m-K	146 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	1510 °C	2750 °F	
Maximum Service Temperature, Air	1040 °C	1900 °F	Operating Temperature

Component Elements Properties	Metric	English	Comments
Aluminum, Al	4.0 %	4.0 %	
Chromium, Cr	15 %	15 %	
Iron, Fe	81 %	81 %	as balance

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000125 ohm-cm	0.000125 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	0.00009 ohms/ohm-°C	0-100°C

## Contact Songhan Plastic Technology Co.,Ltd.

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