

## California Fine Wire Stablohm 825 Nickel Chromium 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-825-Nickel-Chromium-Resistance-Wire.php](http://www.lookpolymers.com/polymer_California-Fine-Wire-Stablohm-825-Nickel-Chromium-Resistance-Wire.php)

Physical Properties	Metric	English	Comments
Density	7.11 g/cc	0.257 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	621 MPa	90000 psi	Annealed
	758 MPa	110000 psi	Stress relieved
	896 MPa	130000 psi	Hard

Thermal Properties	Metric	English	Comments
CTE, linear	11.4 $\mu\text{m}/\text{m}\cdot\text{°C}$	6.33 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@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	
Melting Point	1510 °C	2750 °F	
Maximum Service Temperature, Air	316 °C	601 °F	Operating Temperature

Component Elements Properties	Metric	English	Comments
Aluminum, Al	2.5 %	2.5 %	as balance
Chromium, Cr	20 %	20 %	
Iron, Fe	2.5 %	2.5 %	as balance
Nickel, Ni	75 %	75 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000137 ohm-cm	0.000137 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	-0.004	

## Contact Songhan Plastic Technology Co.,Ltd.

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