

## California Fine Wire Stablohm 710 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-710-Nickel-Chromium-Resistance-Wire.php](http://www.lookpolymers.com/polymer_California-Fine-Wire-Stablohm-710-Nickel-Chromium-Resistance-Wire.php)

Physical Properties	Metric	English	Comments
Density	8.11 g/cc	0.293 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	827 MPa	120000 psi	Annealed
	1210 MPa	175000 psi	Stress relieved
	1380 MPa	200000 psi	Hard

Thermal Properties	Metric	English	Comments
CTE, linear	12.19 $\mu\text{m}/\text{m}\cdot\text{C}$	6.772 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@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	13.7 W/m-K	95.1 BTU-in/hr-ft <sup>2</sup> -°F	
Melting Point	1377 °C	2511 °F	
Maximum Service Temperature, Air	1260 °C	2300 °F	Operating Temperature

Component Elements Properties	Metric	English	Comments
Chromium, Cr	30 %	30 %	
Nickel, Ni	70 %	70 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000118 ohm-cm	0.000118 ohm-cm	3% tolerance on sizes below 0.02, 5% tolerance on sizes above 0.02

Descriptive Properties	Value	Comments
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Magnetic Descriptive Properties	None Value	Comments
Temperature Coefficient of Resistance	0.000089 ohms/ohm-°C	0-100°C

## Contact Songhan Plastic Technology Co.,Ltd.

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