

## California Fine Wire Copper, 27% Nickel Clad

Category : Metal , Nonferrous Metal , Copper 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-Copper-27-Nickel-Clad.php](http://www.lookpolymers.com/polymer_California-Fine-Wire-Copper-27-Nickel-Clad.php)

Physical Properties	Metric	English	Comments
Density	8.89 g/cc	0.321 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	379 MPa	55000 psi	Annealed
	483 MPa	70000 psi	Stress relieved
	586 MPa	85000 psi	Hard

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.380 J/g-°C	0.0908 BTU/lb-°F	
Melting Point	1100 °C	2012 °F	
	1170 - 1240 °C	2140 - 2260 °F	
Solidus	1170 °C	2140 °F	
Liquidus	1240 °C	2260 °F	
Maximum Service Temperature, Air	593 °C	1100 °F	Operating Temperature

Component Elements Properties	Metric	English	Comments
Copper, Cu	99.9 %	99.9 %	Core (Cladding is 99% Ni)

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000224 ohm-cm	0.00000224 ohm-cm	3% tolerance on sizes below 0.02, 5% tolerance on sizes above 0.02

Processing Properties	Metric	English	Comments
Annealing Temperature	650 - 825 °C	1200 - 1520 °F	
Hot-Working Temperature	925 - 1050 °C	1700 - 1920 °F	

Processing Properties Descriptive Properties	Metric	English Value	Comments Comments
Temperature Coefficient of Resistance		0.003 ohms/ohm-°C	0-100°C

## Contact Songhan Plastic Technology Co.,Ltd.

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