

## California Fine Wire Dumet Nickel Iron Core Copper Clad Alloy

Category : Metal , Ferrous Metal , Superalloy , Iron Base

**Material Notes:**

All values may vary dependent on specific design and usage99.9% copper cladding over iron-nickel coreCapabilities:

WireRibbonSquareInsulatedPlatedInformation provided by California Fine Wire.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_California-Fine-Wire-Dumet-Nickel-Iron-Core-Copper-Clad-Alloy.php](http://www.lookpolymers.com/polymer_California-Fine-Wire-Dumet-Nickel-Iron-Core-Copper-Clad-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.28 g/cc	0.299 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	552 MPa	80000 psi	Annealed
	689 MPa	100000 psi	Stress relieved
	862 MPa	125000 psi	Hard
Tensile Strength, Yield	345 MPa	50000 psi	Annealed
	483 MPa	70000 psi	Stress relieved
	689 MPa	100000 psi	Hard

Thermal Properties	Metric	English	Comments
Thermal Conductivity	10.28 W/m-K	71.34 BTU-in/hr-ft <sup>2</sup> -°F	

Component Elements Properties	Metric	English	Comments
Iron, Fe	57 - 59 %	57 - 59 %	Core, as balance
Nickel, Ni	41 - 43 %	41 - 43 %	Core

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000964 ohm-cm	0.00000964 ohm-cm	3% tolerance on sizes below 0.02, 5% tolerance on sizes above 0.02

## Contact Songhan Plastic Technology Co.,Ltd.

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