

California Fine Wire Alloy 436 Platinum/Tungsten Alloy

Category : Metal , Nonferrous Metal , Precious Metal , Platinum Alloy

Material Notes:

All values may vary dependent on specific design and usage Capabilities: WireRibbonInsulatedPlated Information provided by California Fine Wire.

Order this product through the following link:

http://www.lookpolymers.com/polymer_California-Fine-Wire-Alloy-436-PlatinumTungsten-Alloy.php

Physical Properties	Metric	English	Comments
Density	21.2 g/cc	0.765 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	1030 MPa	150000 psi	Annealed
	1290 MPa	187000 psi	Stress relieved
	1380 MPa	200000 psi	Hard
Modulus of Elasticity	138 GPa	20000 ksi	

Thermal Properties	Metric	English	Comments
Melting Point	1870 °C	3398 °F	

Component Elements Properties	Metric	English	Comments
Platinum, Pt	92 %	92 %	
Tungsten, W	8.0 %	8.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000665 ohm-cm	0.0000665 ohm-cm	3% tolerance on sizes below 0.02, 5% tolerance on sizes above 0.02

Descriptive Properties	Value	Comments
Magnetic	None	
Temperature Coefficient of Resistance	0.00021 ohms/ohm-°C	0-100°C
Thermal EMF vs. Copper	+0.007 mV	

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