

Materion Brush 1915â„ž AT Temper Wire

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Information supplied by Brush Wellman Engineered Materials. Treatment required for max strength: 3.5 hrs @ 370Â°C Brush 1915â„ž is Brush Wellman's new heat-treatable leaded copper alloy. Engineered specifically for automatic screw machine applications, Brush 1915 provides high strength and good machinability. Brush Wellman's quality system provides an excellent surface finish, close diameter control, and tight compositional control in Brush 1915. The properties of brush 1915 make it an ideal material for machined electrical contacts. Brush Engineered Materials Inc. changed its name to Materion Corporation in March 2011.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Materion-Brush-1915-AT-Temper-Wire.php

Physical Properties	Metric	English	Comments
Density	8.88 g/cc	0.321 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	340 - 480 MPa	49300 - 69600 psi	
Tensile Strength, Yield	170 - 340 MPa	24700 - 49300 psi	
Elongation at Break	25 - 45 %	25 - 45 %	
Modulus of Elasticity	124 GPa	18000 ksi	
Machinability	75 %	75 %	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 Âµm/m-Â°C @Temperature 20.0 - 200 Â°C	10.0 Âµin/in-Â°F @Temperature 68.0 - 392 Â°F	
Thermal Conductivity	210 W/m-K	1460 BTU-in/hr-ftÂ²-Â°F	
Melting Point	1040 - 1080 Â°C	1900 - 1980 Â°F	
Solidus	1040 Â°C	1900 Â°F	
Liquidus	1080 Â°C	1980 Â°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	98 %	98 %	as balance
Lead, Pb	0.50 - 1.0 %	0.50 - 1.0 %	

Nickel Ni Component Elements Properties	0.80 - 1.2 % Metric	0.80 - 1.2 % English	Comments
Phosphorous, P	0.15 - 0.35 %	0.15 - 0.35 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000310 ohm-cm	0.00000310 ohm-cm	(55% IACS Conductivity)

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China