

Materion Brush 1915, Annealed Temper Rod

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Information supplied by Brush Wellman Engineered Materials. Treatment required for max strength: as supplied. Brush 1915 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-Annealed-Temper-Rod.php

Physical Properties	Metric	English	Comments
Density	8.88 g/cc	0.321 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	205 - 345 MPa	29700 - 50000 psi	
Tensile Strength, Yield	280 - 720 MPa @Strain 0.200 %	40600 - 104000 psi @Strain 0.200 %	
Elongation at Break	35 - 55 %	35 - 55 %	
Modulus of Elasticity	124 GPa	18000 ksi	
Machinability	75 %	75 %	

Thermal Properties	Metric	English	Comments
CTE, linear	17.7 Åµm/m-Å°C @Temperature 20.0 - 200 Å°C	9.83 Åµin/in-Å°F @Temperature 68.0 - 392 Å°F	
Thermal Conductivity	210 W/m-K	1460 BTU-in/hr-ft ² -Å°F	
Melting Point	1038 - 1082 Å°C	1900 - 1980 Å°F	
Solidus	1038 Å°C	1900 Å°F	
Liquidus	1082 Å°C	1980 Å°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	98 %	98 %	as balance

Lead, Pb Component Elements Properties	0.50 - 1.0 % Metric	0.50 - 1.0 % English	Comments
Nickel, Ni	0.80 - 1.2 %	0.80 - 1.2 %	
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)

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