

Materion Beryllium Copper Alloy 10 Wire; AT (TF00) Temper; 1.3-12.7 mm Diameter (UNS C17500)

Category : Metal , Nonferrous Metal , Beryllium Alloy , Copper Alloy

Material Notes:

Treatment required for max strength: 3 hrs @ 480-495Å°C or Mill Hardened Tabulated properties apply to products after age hardening.

Information supplied by Brush Wellman. 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-Beryllium-Copper-Alloy-10-Wire-AT-TF00-Temper-13-127-mm-Diameter-UNS-C17500.php

Physical Properties	Metric	English	Comments
Density	8.83 g/cc	0.319 lb/inÅ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	680 - 900 MPa	98600 - 131000 psi	
Tensile Strength, Yield	550 - 760 MPa	79800 - 110000 psi	
Elongation at Break	>= 10 %	>= 10 %	
Modulus of Elasticity	138 GPa	20000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 Åµm/m-Å°C	10.0 Åµin/in-Å°F	
	@Temperature 20.0 - 200 Å°C	@Temperature 68.0 - 392 Å°F	
Thermal Conductivity	200 W/m-K	1390 BTU-in/hr-ftÅ²-Å°F	
Melting Point	1010 - 1050 Å°C	1850 - 1920 Å°F	
Solidus	1010 Å°C	1850 Å°F	
Liquidus	1050 Å°C	1920 Å°F	

Component Elements Properties	Metric	English	Comments
Beryllium, Be	0.40 - 0.70 %	0.40 - 0.70 %	
Cobalt, Co	2.4 - 2.7 %	2.4 - 2.7 %	
Copper, Cu	97 %	97 %	as balance

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000290 - 0.00000380 ohm-cm	0.00000290 - 0.00000380 ohm-cm	45-60% IACS Conductivity

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