

## Materion Beryllium Copper Alloy 25 Strip; A -Planished (TB00) Temper (UNS C17200)

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

### Material Notes:

Treatment required for max strength: as supplied  
 Formability Ratio, 90° Bend, Radius/Thickness (Good Way): 0  
 Formability Ratio (bad Way): 0  
 Superficial Hardness: 30T 46-67  
 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-25-Strip-A-Planished-TB00-Temper-UNS-C17200.php](http://www.lookpolymers.com/polymer_Materion-Beryllium-Copper-Alloy-25-Strip-A-Planished-TB00-Temper-UNS-C17200.php)

Physical Properties	Metric	English	Comments
Density	8.36 g/cc	0.302 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	45 - 78	45 - 78	
Hardness, Vickers	90 - 144	90 - 144	
Tensile Strength, Ultimate	410 - 540 MPa	59500 - 78300 psi	
Tensile Strength, Yield	200 - 380 MPa	29000 - 55100 psi	
Elongation at Break	35 - 60 %	35 - 60 %	
Modulus of Elasticity	131 GPa	19000 ksi	
Fatigue Strength	210 - 240 MPa @# of Cycles 1.00e+8	30500 - 34800 psi @# of Cycles 1.00e+8	Reverse Bending (R=1)

Thermal Properties	Metric	English	Comments
CTE, linear	17.0 Åµm/m-Å°C	9.44 Åµin/in-Å°F	
	@Temperature 20.0 - 200 Å°C	@Temperature 68.0 - 392 Å°F	
Thermal Conductivity	105 W/m-K	729 BTU-in/hr-ftÅ²-Å°F	
Melting Point	870 - 980 Å°C	1600 - 1800 Å°F	
Solidus	870 Å°C	1600 Å°F	
Liquidus	980 Å°C	1800 Å°F	

Component Elements Properties	Metric	English	Comments

<b>Component Elements Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Co + Ni	>= 0.20 %	>= 0.20 %	
Co + Ni + Fe	<= 0.60 %	<= 0.60 %	
Copper, Cu	98 %	98 %	as balance
Lead, Pb	<= 0.020 %	<= 0.020 %	

<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Electrical Resistivity	0.00000910 - 0.0000115 ohm-cm	0.00000910 - 0.0000115 ohm-cm	15-19% IACS Conductivity

## Contact Songhan Plastic Technology Co.,Ltd.

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