Materion Beryllium Copper Alloy 25 Strip; H (TD04) Temper (UNS C17200)

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

Material Notes:

Treatment required for max strength: as suppliedFormability Ratio, 90Â° Bend, Radius/Thickness (Good Way): 1Formability Ratio (bad Way): 2.9Superficial Hardness: 30T 79-83Tabulated 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-H-TD04-Temper-UNS-C17200.php

Physical Properties	Metric	English	Comments
Density	8.36 g/cc	0.302 lb/inÂ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	96 - 102	96 - 102	
Hardness, Vickers	216 - 287	216 - 287	
Tensile Strength, Ultimate	680 - 830 MPa	98600 - 120000 psi	
Tensile Strength, Yield	620 - 800 MPa	89900 - 116000 psi	
Elongation at Break	2.0 - 18 %	2.0 - 18 %	
Modulus of Elasticity	131 GPa	19000 ksi	
Fatigue Strength	240 - 270 MPa @# of Cycles 1.00e+8	34800 - 39200 psi @# of Cycles 1.00e+8	Reverse Bending (R=1)

Thermal Properties	Metric	English	Comments
CTE, linear	17.0 Âµm/m-Â°C @Temperature 20.0 - 200 Â°C	9.44 Âµin/in-Â°F @Temperature 68.0 - 392 Â°F	
Thermal Conductivity	105 W/m-K	729 BTU-in/hr-ftÂ²-Â°F	
Melting Point	870 - 980 Â°C	1600 - 1800 Â°F	
Solidus	870 Â°C	1600 Â°F	
Liquidus	980 Â°C	1800 Â°F	

Component Elements Properties	Metric	English	Comments
Beryllium, Be	1.8 - 2.0 %	1.8 - 2.0 %	

Component Elements Properties	Metric	English	Comments
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 %	

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

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