

Cadi 162 Copper Alloy

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Cadmium addition to copper increases hardness and resistance to softening. C16200 is utilized in numerous applications where fatigue strength and high electrical conductivity are required. Cadmium Copper is also specified for spot welding aluminum; the high thermal conductivity helps to prevent electrode sticking on these soft, conductive materials. Forms: RodBarInformation provided by Cadi Company.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Cadi-162-Copper-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.89 g/cc	0.321 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	55	55	
	@Diameter 50.8 - 76.2 mm	@Diameter 2.00 - 3.00 in	
	60	60	
	@Diameter 25.4 - 50.8 mm	@Diameter 1.00 - 2.00 in	
	>= 65	>= 65	hard temper
	@Diameter <=25.4 mm	@Diameter <=1.00 in	
Tensile Strength at Break	>= 345 MPa	>= 50000 psi	
	@Thickness >=25.4 mm	@Thickness >=1.00 in	
	>= 414 MPa	>= 60000 psi	
	@Thickness <=25.4 mm	@Thickness <=1.00 in	
Tensile Strength, Yield	>= 345 MPa	>= 50000 psi	
	@Strain 0.500 %, Thickness >=25.4 mm	@Strain 0.500 %, Thickness >=1.00 in	
	>= 414 MPa	>= 60000 psi	
	@Strain 0.500 %, Thickness <=25.4 mm	@Strain 0.500 %, Thickness <=1.00 in	
Modulus of Elasticity	117 GPa	17000 ksi	
Poissons Ratio	0.328	0.328	
Shear Modulus	44.1 GPa	6400 ksi	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	359.7 W/m-K	2496 BTU-in/hr-ft ² -°F	
Melting Point	1030 - 1076 °C	1886 - 1969 °F	
Solidus	1030 °C	1886 °F	
Liquidus	1076 °C	1969 °F	

Component Elements Properties	Metric	English	Comments
Cadmium, Cd	0.90 %	0.90 %	
Copper, Cu	99.1 %	99.1 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	<= 0.00000216 ohm-cm	<= 0.00000216 ohm-cm	Calculated from Min 80 %IACS, up to 3" diameter/any thickness

Processing Properties	Metric	English	Comments
Processing Temperature	649 °C	1200 °F	Brazing, <15 minutes

Descriptive Properties	Value	Comments
RMWA Class	1	

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