

CMW® 328 Copper Alloy

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

CMW® 328 material is a high strength, high conductivity copper base alloy. CMW® 328 is heat treatable. Optimum mechanical and physical properties of CMW® 328 material are developed by heat treatment or through a combination of heat treatment and cold working. CMW® 328 material is used extensively for cap style resistance welding electrodes. Evidence suggests that it can provide less sticking and resist deformation longer than its copper-chrome counterpart (CMW® 3) in some specific situations. CMW® 328 can be substituted for CMW® 3 in any structural or current carrying situation without fear of degrading the design. Information provided by CMW Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMW-328-Copper-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.90 g/cc	0.322 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	75	75	Drawn Rod & Bar
Tensile Strength, Ultimate	455 MPa	66000 psi	Drawn Rod & Bar
Tensile Strength, Yield	425 MPa	61600 psi	
Elongation at Break	19 %	19 %	Drawn Rod & Bar
Modulus of Elasticity	120 GPa	17400 ksi	Bar, Rod & Strip

Thermal Properties	Metric	English	Comments
CTE, linear	17.0 µm/m-°C	9.44 µin/in-°F	
	@Temperature 100 °C	@Temperature 212 °F	
Thermal Conductivity	322 W/m-K	2230 BTU-in/hr-ft ² -°F	
Melting Point	1075 - 1080 °C	1967 - 1980 °F	
Solidus	1075 °C	1967 °F	
Liquidus	1080 °C	1980 °F	
Softening Point	480 °C	896 °F	Permanent Softening

Component Elements Properties	Metric	English	Comments
Chromium, Cr	1.0 %	1.0 %	

Copper Cu Component Elements Properties	98.85 % Metric	98.85 % English	Comments
Zirconium, Zr	0.15 %	0.15 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000216 ohm-cm	0.00000216 ohm-cm	Bar & Rod (80 % IACS)

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