

CLAL-MSX NICLAL 3444 H14 4/4 Hard Copper Alloy, diameter > 8 Copper Alloy, Free Cutting Bronze

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Main Characteristics: Excellent machineability High mechanical properties Self lubricating alloy Typical Applications: Parts for connectors Friction parts Bearings-Pinions-Lock pins Information provided by CLAL-MSX

Order this product through the following link:

http://www.lookpolymers.com/polymer_CLAL-MSX-NICLAL-3444-H14-44-Hard-Copper-Alloy-diameter-8-Copper-Alloy-Free-Cutting-Bronze.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	>= 160	>= 160	
Tensile Strength, Ultimate	>= 500 MPa	>= 72500 psi	
Tensile Strength, Yield	>= 400 MPa @Strain 0.200 %	>= 58000 psi @Strain 0.200 %	
Elongation at Break	>= 10 %	>= 10 %	100 A
Modulus of Elasticity	105 GPa	15200 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	17.3 µm/m-°C @Temperature 0.000 - 100 °C	9.61 µin/in-°F @Temperature 32.0 - 212 °F	
Specific Heat Capacity	0.380 J/g-°C	0.0908 BTU/lb-°F	
Thermal Conductivity	67.0 W/m-K	465 BTU-in/hr-ft ² -°F	
Melting Point	930 °C	1710 °F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	88 %	88 %	
Lead, Pb	<= 4.0 %	<= 4.0 %	
Tin, Sn	4.0 %	4.0 %	
Zinc, Zn	<= 4.0 %	<= 4.0 %	

Component Elements Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000101 ohm-cm	0.0000101 ohm-cm	

Descriptive Properties	Value	Comments
Color	Bronze	

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