

CLAL-MSX NICLAL 1300 H12 1/2 Hard Copper Alloy, Free Cutting Nickel-Silver

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Main Characteristics: Good ductility Good corrosion resistance Typical Applications: High volume turned parts Keys Information provided by CLAL-MSX

Order this product through the following link:

http://www.lookpolymers.com/polymer_CLAL-MSX-NICLAL-1300-H12-12-Hard-Copper-Alloy-Free-Cutting-Nickel-Silver.php

Physical Properties	Metric	English	Comments
Density	8.65 g/cc	0.313 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	145 - 175	145 - 175	
Tensile Strength, Ultimate	470 - 570 MPa	68200 - 82700 psi	
Tensile Strength, Yield	>= 350 MPa @Strain 0.200 %	>= 50800 psi @Strain 0.200 %	
Elongation at Break	>= 10 %	>= 10 %	100 A
Modulus of Elasticity	130 GPa	18900 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature 0.000 - 100 $^{\circ}\text{C}$	8.89 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature 32.0 - 212 $^{\circ}\text{F}$	
Specific Heat Capacity	0.410 J/g- $^{\circ}\text{C}$	0.0980 BTU/lb- $^{\circ}\text{F}$	
Thermal Conductivity	33.0 W/m-K	229 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
Melting Point	1020 $^{\circ}\text{C}$	1870 $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	63 %	63 %	
Lead, Pb	<= 1.0 %	<= 1.0 %	
Nickel, Ni	13 %	13 %	
Zinc, Zn	<= 23 %	<= 23 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000230 ohm-cm	0.0000230 ohm-cm	

Descriptive Properties	Value	Comments
Color	Ivory	

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