

CLAL-MSX NICLAL 1800 H12 1/2 Hard Copper Alloy, Free Cutting Nickel-Silver

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

Main Characteristics: Good corrosion resistance High mechanical properties Typical Applications: Parts subject to high stress High quality fasteners Information provided by CLAL-MSX

Order this product through the following link:

http://www.lookpolymers.com/polymer_CLAL-MSX-NICLAL-1800-H12-12-Hard-Copper-Alloy-Free-Cutting-Nickel-Silver.php

Physical Properties	Metric	English	Comments
Density	8.75 g/cc	0.316 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Vickers	155 - 185	155 - 185	
Tensile Strength, Ultimate	480 - 650 MPa	69600 - 94300 psi	
Tensile Strength, Yield	>= 450 MPa @Strain 0.200 %	>= 65300 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	0.420 J/g- $^\circ\text{C}$	0.100 BTU/lb- $^\circ\text{F}$	
Thermal Conductivity	30.0 W/m-K	208 BTU-in/hr-ft ² - $^\circ\text{F}$	
Melting Point	1060 $^\circ\text{C}$	1940 $^\circ\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	62 %	62 %	
Lead, Pb	<= 1.0 %	<= 1.0 %	
Nickel, Ni	18 %	18 %	
Zinc, Zn	<= 19 %	<= 19 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000260 ohm-cm	0.0000260 ohm-cm	

Descriptive Properties	Value	Comments
Color	Silvery	

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