

Eagle Brass 715 Copper Nickel 30%, 1/2 Hard

Category : Metal , Nonferrous Metal , Copper Alloy

Material Notes:

715 exhibits excellent corrosion resistance, especially in marine applications. It has moderately high strength and has good creep resistance at elevated temperatures. The cost is relatively high compared to copper-aluminum and other alloys with similar mechanical properties. Typical uses include flexible metal hoses, salt water flanges, and applications where corrosion resistance is imperative. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-715-Copper-Nickel-30-12-Hard.php

Physical Properties	Metric	English	Comments
Density	8.94 g/cc	0.323 lb/in ³	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	67 - 72	67 - 72	Thickness > 0.020 Inch
Tensile Strength, Ultimate	455 - 552 MPa	66000 - 80000 psi	
Tensile Strength, Yield	414 - 538 MPa	60000 - 78000 psi	0.2% offset
Elongation at Break	3.0 - 10 %	3.0 - 10 %	in 2 in.
Tensile Modulus	152 GPa	22000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.2 $\mu\text{m}/\text{m}\cdot\text{°C}$	9.00 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
Thermal Conductivity	29.4 W/m-K	204 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	69.4 %	69.4 %	
Iron, Fe	0.60 %	0.60 %	
Nickel, Ni	30 %	30 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000387 ohm-cm	0.0000387 ohm-cm	Annealed

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