

Eagle Brass 735 Nickel Silver 18%, 1/4 Hard

Category : Metal , Nonferrous Metal , Nickel Alloy

Material Notes:

735 is used for coinage, name plates, zippers, flatware, and fashion jewelry. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-735-Nickel-Silver-18-14-Hard.php

Physical Properties	Metric	English	Comments
Density	8.83 g/cc	0.319 lb/in ³	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	60 - 70	60 - 70	Thickness > 0.020 Inch
Tensile Strength, Ultimate	386 - 476 MPa	56000 - 69000 psi	
Tensile Strength, Yield	193 - 400 MPa	28000 - 58000 psi	0.2% offset
Elongation at Break	10 - 25 %	10 - 25 %	in 2 in.
Tensile Modulus	124 GPa	18000 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	37.2 W/m-K	258 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	72 %	72 %	
Nickel, Ni	18 %	18 %	
Zinc, Zn	10 %	10 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000223 ohm-cm	0.0000223 ohm-cm	Annealed

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