

Eagle Brass 735 Nickel Silver 18%, 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-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	71 - 74	71 - 74	Thickness > 0.020 Inch
Tensile Strength, Ultimate	503 - 579 MPa	73000 - 84000 psi	
Tensile Strength, Yield	462 - 538 MPa	67000 - 78000 psi	0.2% offset
Elongation at Break	1.0 - 3.0 %	1.0 - 3.0 %	in 2 in.
Tensile Modulus	124 GPa	18000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.2 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	9.00 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Thermal Conductivity	37.2 W/m-K	258 BTU-in/hr-ft ² - $^{\circ}\text{F}$	

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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