

Eagle Brass 752 Nickel Silver 18%, 1/4 Hard

Category : Metal , Nonferrous Metal , Nickel Alloy

Material Notes:

Alloy C752 combines corrosion resistance with strength and a lustrous silver color. Applications include optical frames and parts, springs, surgical instruments, jewelry, resistors and contacts. Information provided by Eagle Brass Company

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eagle-Brass-752-Nickel-Silver-18-14-Hard.php

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	49 - 67	49 - 67	Thickness > 0.020 Inch
Tensile Strength, Ultimate	400 - 496 MPa	58000 - 72000 psi	
Tensile Strength, Yield	179 - 441 MPa	26000 - 64000 psi	0.2% offset
Elongation at Break	14 - 35 %	14 - 35 %	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	32.9 W/m-K	228 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	65 %	65 %	
Nickel, Ni	18 %	18 %	
Zinc, Zn	17 %	17 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000297 ohm-cm	0.0000297 ohm-cm	Annealed

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