

## Eagle Brass 762 Nickel Silver 12%, 1/4 Hard

Category : Metal , Nonferrous Metal , Nickel Alloy

**Material Notes:**

762 is a nickel silver alloy that has excellent strength, stress relaxation resistance, and solderability. Due to it being extremely resistant to corrosion it doesn't tarnish easily and has a long shelf life. Typical uses include springs for relays, condensers, and decorative belt buckles. Information provided by Eagle Brass Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eagle-Brass-762-Nickel-Silver-12-14-Hard.php](http://www.lookpolymers.com/polymer_Eagle-Brass-762-Nickel-Silver-12-14-Hard.php)

Physical Properties	Metric	English	Comments
Density	8.58 g/cc	0.310 lb/in <sup>3</sup>	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	57 - 75	57 - 75	Thickness > 0.020 Inch
Tensile Strength, Ultimate	448 - 558 MPa	65000 - 81000 psi	
Tensile Strength, Yield	241 - 483 MPa	35000 - 70000 psi	0.2% offset
Elongation at Break	20 - 50 %	20 - 50 %	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	41.5 W/m-K	288 BTU-in/hr-ft <sup>2</sup> -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	59 %	59 %	
Nickel, Ni	12 %	12 %	
Zinc, Zn	29 %	29 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000198 ohm-cm	0.0000198 ohm-cm	Annealed

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