

## Eagle Brass 770 Nickel Silver 18%, Hard

Category : Metal , Nonferrous Metal , Nickel Alloy

**Material Notes:**

770 has good cold forming properties, is tarnish resistant and has very good spring properties. 770 does not become subject to embrittlement at lower temperature and it has excellent corrosion resistance. Typical uses include springs, resistance wire and optical goods. Information provided by Eagle Brass Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eagle-Brass-770-Nickel-Silver-18-Hard.php](http://www.lookpolymers.com/polymer_Eagle-Brass-770-Nickel-Silver-18-Hard.php)

Physical Properties	Metric	English	Comments
Density	8.69 g/cc	0.314 lb/in <sup>3</sup>	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	76 - 80	76 - 80	Thickness > 0.020 Inch
Tensile Strength, Ultimate	634 - 738 MPa	92000 - 107000 psi	
Tensile Strength, Yield	621 - 731 MPa	90000 - 106000 psi	0.2% offset
Elongation at Break	3.0 - 6.0 %	3.0 - 6.0 %	in 2 in.
Tensile Modulus	124 GPa	18000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.7 $\mu\text{m}/\text{m}\cdot\text{°C}$	9.30 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
Thermal Conductivity	29.4 W/m-K	204 BTU-in/hr-ft <sup>2</sup> -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	55 %	55 %	
Nickel, Ni	18 %	18 %	
Zinc, Zn	27 %	27 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000324 ohm-cm	0.0000324 ohm-cm	Annealed

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