

## Eagle Brass 752 Nickel Silver 18%, Extra Spring

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-Extra-Spring.php](http://www.lookpolymers.com/polymer_Eagle-Brass-752-Nickel-Silver-18-Extra-Spring.php)

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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	>= 76	>= 76	Thickness > 0.020 Inch
Tensile Strength, Ultimate	>= 662 MPa	>= 96000 psi	
Tensile Strength, Yield	>= 655 MPa	>= 95000 psi	0.2% offset
Elongation at Break	<= 2.0 %	<= 2.0 %	in 2 in.
Tensile Modulus	124 GPa	18000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.2 $\mu\text{m}/\text{m}\cdot\text{C}$	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 <sup>2</sup> -°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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