

Eagle Brass 752 Nickel Silver 18%, Annealed

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-Annealed.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 | 39 - 60 | 39 - 60 | Thickness > 0.020 Inch |
| Tensile Strength, Ultimate | 365 - 434 MPa | 53000 - 63000 psi | |
| Tensile Strength, Yield | 124 - 221 MPa | 18000 - 32000 psi | 0.2% offset |
| Elongation at Break | 29 - 42 % | 29 - 42 % | 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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