Eagle Brass 770 Nickel Silver 18%, 1/2 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-18-12-Hard.php

Physical Properties	Metric	English	Comments
Density	8.69 g/cc	0.314 lb/in³	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	71 - 78	71 - 78	Thickness > 0.020 Inch
Tensile Strength, Ultimate	538 - 655 MPa	78000 - 95000 psi	
Tensile Strength, Yield	441 - 641 MPa	64000 - 93000 psi	0.2% offset
Elongation at Break	5.0 - 24 %	5.0 - 24 %	in 2 in.
Tensile Modulus	124 GPa	18000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.7 μm/m-°C	9.30 µin/in-°F	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
Thermal Conductivity	29.4 W/m-K	204 BTU-in/hr-ft ² -°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

Contact Songhan Plastic Technology Co.,Ltd.



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