

## Eagle Brass 102 OF COPPER (Non-Certified), 1/4 Hard

Category : Metal , Nonferrous Metal , Copper Alloy

**Material Notes:**

Alloy 102 is an oxygen-free copper which has better forming, resistance to hydrogen embrittlement, and brazing characteristics than C110 ETP. C102 has good solder-ability and corrosion resistance and is used for high current applications. Information provided by Eagle Brass Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eagle-Brass-102-OF-COPPER-Non-Certified-14-Hard.php](http://www.lookpolymers.com/polymer_Eagle-Brass-102-OF-COPPER-Non-Certified-14-Hard.php)

Physical Properties	Metric	English	Comments
Density	8.94 g/cc	0.323 lb/in <sup>3</sup>	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	18 - 51	18 - 51	Thickness > 0.020 Inch
Tensile Strength, Ultimate	234 - 290 MPa	34000 - 42000 psi	
Tensile Strength, Yield	179 - 269 MPa	26000 - 39000 psi	0.2% offset
Elongation at Break	13 - 33 %	13 - 33 %	in 2 in.
Tensile Modulus	117 GPa	17000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	17.6 $\mu\text{m}/\text{m}\cdot\text{°C}$	9.80 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
Thermal Conductivity	390.8 W/m-K	2712 BTU-in/hr-ft <sup>2</sup> -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	>= 99.9 %	>= 99.9 %	
Oxygen, O	<= 0.0010 %	<= 0.0010 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000176 ohm-cm	0.00000176 ohm-cm	Annealed

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