

## Eagle Brass 260 Cartridge Brass, Annealed

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

**Material Notes:**

Alloy C260 is commonly used for electrical components, electronic parts, and mechanical fasteners. The alloy has good strength but poor stress relaxation characteristics and does not make a particularly good spring material. The solderability of the alloy is severely impaired by its high zinc content. Information provided by Eagle Brass Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eagle-Brass-260-Cartridge-Brass-Annealed.php](http://www.lookpolymers.com/polymer_Eagle-Brass-260-Cartridge-Brass-Annealed.php)

Physical Properties	Metric	English	Comments
Density	8.53 g/cc	0.308 lb/in <sup>3</sup>	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	16 - 60	16 - 60	Thickness > 0.020 Inch
Tensile Strength, Ultimate	310 - 421 MPa	45000 - 61000 psi	
Tensile Strength, Yield	68.9 - 228 MPa	10000 - 33000 psi	0.2% offset
Elongation at Break	40 - 67 %	40 - 67 %	in 2 in.
Tensile Modulus	110 GPa	16000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	11.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	
	@Temperature 20.0 - 300 $^{\circ}\text{C}$	@Temperature 68.0 - 572 $^{\circ}\text{F}$	
Thermal Conductivity	121 W/m-K	840 BTU-in/hr-ft <sup>2</sup> - $^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Copper, Cu	70 %	70 %	
Zinc, Zn	30 %	30 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000636 ohm-cm	0.00000636 ohm-cm	Annealed

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