

## Eagle Brass 425 Tin Brass 2%, Extra Hard

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

**Material Notes:**

Alloy C425 is a low zinc-containing alloy with good combination of tensile strength, electrical conductivity, formability and corrosion resistance. Applications include electrical springs, connectors and terminals. Information provided by Eagle Brass Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Eagle-Brass-425-Tin-Brass-2-Extra-Hard.php](http://www.lookpolymers.com/polymer_Eagle-Brass-425-Tin-Brass-2-Extra-Hard.php)

Physical Properties	Metric	English	Comments
Density	8.77 g/cc	0.317 lb/in <sup>3</sup>	Annealed

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell 30T	71 - 75	71 - 75	Thickness > 0.020 Inch
Tensile Strength, Ultimate	524 - 607 MPa	76000 - 88000 psi	
Tensile Strength, Yield	503 - 586 MPa	73000 - 85000 psi	0.2% offset
Elongation at Break	2.0 - 8.0 %	2.0 - 8.0 %	in 2 in.
Tensile Modulus	110 GPa	16000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	18.4 $\mu\text{m}/\text{m}\cdot\text{C}$	10.2 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@Temperature 20.0 - 300 °C	@Temperature 68.0 - 572 °F	
Thermal Conductivity	119 W/m-K	828 BTU-in/hr-ft <sup>2</sup> -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	88.5 %	88.5 %	
Tin, Sn	2.0 %	2.0 %	
Zinc, Zn	9.5 %	9.5 %	

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

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