

## Eagle Brass 425 Tin Brass 2%, 3/4 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-2-34-Hard.php](http://www.lookpolymers.com/polymer_Eagle-Brass-425-Tin-Brass-2-34-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	66 - 71	66 - 71	Thickness > 0.020 Inch
Tensile Strength, Ultimate	427 - 510 MPa	62000 - 74000 psi	
Tensile Strength, Yield	400 - 483 MPa	58000 - 70000 psi	0.2% offset
Elongation at Break	5.0 - 20 %	5.0 - 20 %	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

**Contact Songhan Plastic Technology Co.,Ltd.**Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China