

## Chicago Extruded Metals BioBrass® UNS C27450 Copper-Zinc Alloy

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

**Material Notes:**

Finished product available as wire or tube.Chicago Extruded Metal temper code: H04Information provided by Chicago Extruded Metals

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chicago-Extruded-Metals-BioBrass-UNS-C27450-Copper-Zinc-Alloy.php](http://www.lookpolymers.com/polymer_Chicago-Extruded-Metals-BioBrass-UNS-C27450-Copper-Zinc-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.58 g/cc	0.310 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	68	68	
Tensile Strength	434 MPa	63000 psi	
Tensile Strength, Yield	324 MPa	47000 psi	
Elongation at Break	25 %	25 %	
Machinability	70 %	70 %	UNS C36000 (free-cutting brass) = 100%

Thermal Properties	Metric	English	Comments
Thermal Conductivity	116 W/m-K	804 BTU-in/hr-ft <sup>2</sup> -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	60 - 65 %	60 - 65 %	
Iron, Fe	0.35 %	0.35 %	
Lead, Pb	0.25 %	0.25 %	
Other, total	0.50 %	0.50 %	
Zinc, Zn	33.9 - 38.9 %	33.9 - 38.9 %	as balance

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000639 ohm-cm	0.00000639 ohm-cm	

## Contact Songhan Plastic Technology Co.,Ltd.

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