

## Chicago Extruded Metals UNS C34500 Copper-Zinc-Lead Alloy

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

**Material Notes:**

Copper-Zinc-Lead Alloy (Leaded Brass) Finished product available in rods. Chicago Extruded Metal temper codes: H01, H02 Information provided by Chicago Extruded Metals

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Chicago-Extruded-Metals-UNS-C34500-Copper-Zinc-Lead-Alloy.php](http://www.lookpolymers.com/polymer_Chicago-Extruded-Metals-UNS-C34500-Copper-Zinc-Lead-Alloy.php)

Physical Properties	Metric	English	Comments
Density	8.47 g/cc	0.306 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	40 - 80	40 - 80	
Tensile Strength	276 - 1030 MPa	40000 - 150000 psi	
Tensile Strength, Yield	103 - 345 MPa	15000 - 50000 psi	
Elongation at Break	10 - 30 %	10 - 30 %	
Machinability	90 %	90 %	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	62 - 65 %	62 - 65 %	
Iron, Fe	0.15 %	0.15 %	
Lead, Pb	1.5 - 2.5 %	1.5 - 2.5 %	
Other, total	0.40 %	0.40 %	
Zinc, Zn	31.95 - 35.95 %	31.95 - 35.95 %	as balance

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000663 ohm-cm	0.00000663 ohm-cm	

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