

Chicago Extruded Metals BioBrass® UNS C46400 Copper-Zinc-Tin Alloy

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

Material Notes:

Copper-Zinc-Tin Alloy (Naval Brass) Finished product available as bar, wire, rod, forged, or shapes. Chicago Extruded Metal temper codes: H01, H02, H04, M30 Information provided by Chicago Extruded Metals

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chicago-Extruded-Metals-BioBrass-UNS-C46400-Copper-Zinc-Tin-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.41 g/cc	0.304 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	55 - 95	55 - 95	
Tensile Strength	386 - 607 MPa	56000 - 88000 psi	
Tensile Strength, Yield	172 - 455 MPa	25000 - 66000 psi	
Elongation at Break	18 - 47 %	18 - 47 %	
Machinability	30 %	30 %	UNS C36000 (free-cutting brass) = 100%

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

Component Elements Properties	Metric	English	Comments
Copper, Cu	59 - 62 %	59 - 62 %	
Iron, Fe	0.10 %	0.10 %	
Lead, Pb	0.20 %	0.20 %	
Other, total	0.40 %	0.40 %	
Tin, Sn	0.50 - 1.0 %	0.50 - 1.0 %	
Zinc, Zn	36.3 - 39.8 %	36.3 - 39.8 %	as balance

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

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