

Chicago Extruded Metals UNS C48500 Copper-Zinc-Tin Alloy

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

Material Notes:

Copper-Zinc-Tin Alloy (Naval Brass) Finished product available as bar, rod, forged, or shapes. 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-C48500-Copper-Zinc-Tin-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.44 g/cc	0.305 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	55 - 82	55 - 82	
Tensile Strength	393 - 517 MPa	57000 - 75000 psi	
Tensile Strength, Yield	172 - 365 MPa	25000 - 53000 psi	
Elongation at Break	15 - 40 %	15 - 40 %	
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 ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	59 - 62 %	59 - 62 %	
Iron, Fe	0.10 %	0.10 %	
Lead, Pb	1.3 - 2.2 %	1.3 - 2.2 %	
Other, total	0.40 %	0.40 %	
Tin, Sn	0.50 - 1.0 %	0.50 - 1.0 %	
Zinc, Zn	34.3 - 38.7 %	34.3 - 38.7 %	as balance

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

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