

Chicago Extruded Metals BioBrass® UNS C22000 Copper-Zinc Alloy

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

Material Notes:

Finished product available as bar or wire. Chicago Extruded Metal temper codes: H01, H02, H04 This alloy is registered with the U.S. EPA as Antimicrobial. Information provided by Chicago Extruded Metals

Order this product through the following link:

http://www.lookpolymers.com/polymer_Chicago-Extruded-Metals-BioBrass-UNS-C22000-Copper-Zinc-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.80 g/cc	0.318 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell B	42	42	
Tensile Strength	276 - 621 MPa	40000 - 90000 psi	
Elongation at Break	3.0 - 50 %	3.0 - 50 %	
Machinability	20 %	20 %	UNS C36000 (free-cutting brass) = 100%

Thermal Properties	Metric	English	Comments
Thermal Conductivity	188.5 W/m-K	1308 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	89 - 91 %	89 - 91 %	
Iron, Fe	0.050 %	0.050 %	
Lead, Pb	0.050 %	0.050 %	
Other, total	0.20 %	0.20 %	
Zinc, Zn	8.7 - 10.7 %	8.7 - 10.7 %	as balance

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000391 ohm-cm	0.00000391 ohm-cm	

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