

Chicago Extruded Metals BioBrass® CXM10 Lead-Free Alloy

Category : Metal , Nonferrous Metal , Copper Alloy , Brass

Material Notes:

Finished product available in rods. Chicago Extruded Metal temper code: H02 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-CXM10-Lead-Free-Alloy.php

Physical Properties	Metric	English	Comments
Density	8.30 g/cc	0.300 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength	565 - 586 MPa	82000 - 85000 psi	
Tensile Strength, Yield	317 - 345 MPa	46000 - 50000 psi	
Elongation at Break	30 %	30 %	
Machinability	78 %	78 %	UNS C36000 (free-cutting brass) = 100%

Thermal Properties	Metric	English	Comments
Thermal Conductivity	31.1 W/m-K	216 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	70 - 75 %	70 - 75 %	
Iron, Fe	0.10 %	0.10 %	
Lead, Pb	0.080 %	0.080 %	
Manganese, Mn	0.080 - 1.8 %	0.080 - 1.8 %	
Nickel, Ni	0.20 %	0.20 %	
Other, total	0.50 %	0.50 %	
Phosphorous, P	0.050 - 0.20 %	0.050 - 0.20 %	
Silicon, Si	1.8 - 2.6 %	1.8 - 2.6 %	
Tin, Sn	0.30 %	0.30 %	
Zinc, Zn	19.22 - 26.17 %	19.22 - 26.17 %	As Balance

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000181 ohm-cm	0.0000181 ohm-cm	

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