

SHREE EXTRUSIONS LIMITED



C61400 Copper Aluminum Bronze Alloy has excellent mechanical properties and ductility. With excellent corrosion resistance, this alloy is suitable for high load applications and applications with high-pressure requirements.

TYPICAL USES:

FASTENERS: Threaded Members, Stringers, Bolts, Nuts **INDUSTRIAL:** Piping Systems, Structural Components, Machine Parts, Corrosion Resistant Vessels, Sea Water Piping, Condenser Tube and Piping Systems, Tube Sheets, Welded Pipe, Seamless Tubing and Pipe, Chutes for Abrasive Grains, Heat Exchanger Tubes, Mining Shovels, Tanks, Condenser Head Plates **MARINE:** Fasteners, Protective Sheathing, Pressure Vessels, Marine Hardware, Welded Tanks **ORDINANCE:** Blending Chambers

CHEMICAL COMPOSITION

	Al	Cu	Fe	Pb	Mn	Р	Zn
Min/Max	6.0 - 8.0	Rem	1.5 - 3.5	0.01	1	0.015	0.2
Nominals	7.0000	91.0000	2.0000	-	-	-	-

PHYSICAL PROPERTIES

Product Property	US Customary			
Coefficient of Thermal Expansion	9.0 Â • 10-6 per oF (68-572 F)			
Density	0.285 lb/in3 @ 68 F			
Electrical Conductivity	14 %IACS @ 68 F			
Electrical Resistivity	74.1 ohms-cmil/ft @ 68 F			
Melting Point Liquid US	1915 F			
Melting Point Solid US	1905 F			
Modulas of Elasticity in Tension	17000 ksi			
Modulas of Rigidity	6400 ksi			
Specific Gravity	7.89			
Specific Heat Capacity	0.09 Btu/lb/°F @ 68 F			
Thermal Conductivity	39.0 Btu • ft/(hr • ft2 •°F) @ 68 F			

SIZES AVAILABLE:

ROUND RODS/ 8mm To 100 mm
HEX 10mm To 60mm
SQUARE 10mm To 60mm

FLAT 10mm Min Thickness and max Width 120mm

BILLETS Up to 200 mm
INGOTS As per Specification

Regd. Office & Works:

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