

Metal Alloys Corporation



EQUIVALENT SPECIFICATIONS				
SPECIFICATIONS	DESIGNATION			
ISO	CuAl8Fe3			
European	CuAl8Fe3			
BS	AS 106			
JIS	C 6140			

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 •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/ HEX SQUARE FLAT BILLETS INGOTS 8mm To 100 mm 10mm To 60mm 10mm To 60mm 10mm Min Thickness and max Width 120mm Up to 200 mm As per Specification

Regd. Office & Plant

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