



SILICON ALUMINUM BRONZE

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	CuAl7Si2
European	CuAl7Si2
UNS	C64210

Excellent hot and cold workability; good forge ability. Fabricated by bending, coining, coppersmith, drawing and upsetting, hot forging and pressing, knurling, roll threading, shearing, spinning, swaging, and stamping.

Typical Uses for C64200 Silicon Aluminum Bronze:

ELECTRICAL: Cold Headed Nuts, Cable Connectors, Components for Pole Line Hardware **FASTENERS:** Screw Machine Products, Bolts **INDUSTRIAL:** Valve Components, Nuclear Power Service

CHEMICAL COMPOSITION

	Al	As	Cu	Fe	Pb	Ni	Si	Sn	Zn
Min/Max	3.0 - 4.0	0.15	Rem	0.15	0.05	0.15	0.7 - 1.3	0.2	0.5
Nominals	3.5000	-	95.5000	-	-	-	1.0000	-	-

PHYSICAL PROPERTIES

Product Property	US Customary
Coefficient of Thermal Expansion	9.4 Å • 10 ⁻⁶ per oF (68-572 F)
Density	0.301 lb/in ³ at 68 F
Electrical Conductivity	12 %IACS @ 68 F
Electrical Resistivity	86.4 ohms-cmil/ft @ 68 F
Melting Point – Liquidus	1890 F
Modulus of Elasticity in Tension	16000 ksi
Specific Gravity	8.33
Thermal Conductivity	33.0 Btu Å • ft/(hr Å • ft ² Å • oF)at 68F

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 & Plant
 Plot No. 6 & 7, Village: Lakhavaval, Post: Khodiyar Colony, Jamnagar - 361006.
 Tel.: +91-288-2889251 / 52, Fax: +91-288-2889223, Cell: +91-9924443396
 Email: info@metallalloyscorp.com • web: www.metallalloyscorp.com



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