



## ALUMINUM BRONZE

### EQUIVALENT SPECIFICATIONS

European      CuAl10Fe1

C62400 aluminum bronze applications include valve and pump components for industrial process streams, as well as for marine equipment, high strength fasteners and pole line hardware.

### TYPICAL USES :

**FASTENERS:** Nuts, Bolts    **INDUSTRIAL:** Gears, Bearing Races, Valve Stems, Worm Gears, Valve Guides, Valve Seats, Bearings, Bushings, Cams, Pump Rods    **MARINE:** Marine Hardware

### CHEMICAL COMPOSITION

	Al	Cu	Fe	Mn	Si	Sn
Min/Max	10.0 - 11.5	Rem	2.0 - 4.5	0.3	0.25	0.2
Nominals	11.0000	86.0000	3.0000	-	-	-

### PHYSICAL PROPERTIES

Product Property	US Customary
Coefficient of Thermal Expansion	9.0 $\times 10^{-6}$ per of (68-572 F)
Density	0.269 lb/in <sup>3</sup> at 68 F
Electrical Conductivity	12 %IACS @ 68 F
Electrical Resistivity	86.4 ohms-cmil/ft @ 68 F
Melting Point Liquid US	1900 F
Melting Point Solid US	1880 F
Modulus of Elasticity in Tension	17000 ksi
Modulus of Rigidity	6400 ksi
Specific Gravity	7.45
Specific Heat Capacity	0.09 Btu/lb/ $\Delta^\circ$ F @ 68 F
Thermal Conductivity	34.0 Btu $\Delta^\circ$ ft/(hr $\Delta^\circ$ ft <sup>2</sup> $\Delta^\circ$ 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 & 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@metalalloyscorp.com](mailto:info@metalalloyscorp.com) • web: [www.metalalloyscorp.com](http://www.metalalloyscorp.com)



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