



## MANGANESE BRONZE

### EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ISO	C67300
European	C67400

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 APPLICATIONS:

**Industrial:** Gears, Sealing Rings, Thrust Bearings, Bushings, Cams, Spindles, Bearings, Idler Pins, Connecting Rods, Drive Shafts, Valve Seats, Sleeve Bearings, Piston Heads

**Marine:** Pump Parts, Hardware, High Strength

### CHEMICAL COMPOSITION

	Cu	Al	Fe	Pb	Mn	Ni	Si	Sn	Zn
Min./Max.	60.0-63.0	.25	.35	.50	2.0-3.5	.25	.50-1.5	.30	Rem.
Nominal	61.5	-	-	-	2.7	-	1.0	-	-

### PHYSICAL PROPERTIES

Modulus of Elasticity in Tension	16700 ksi
Density	0.300 lb/in <sup>3</sup>
Melting Range	1690 - 1730
Coefficient of Expansion	(68 to 572oF) 11 +in/in oF
Thermal Conductivity	55 Btu/ft h oF
Electrical Conductivity	21 % IACS
Electrical Resistivity	54 Ω (circ mil/ft)
Relative Magnetic Permeability	<1.02

### SIZES AVAILABLE :

HOLLOW RODS	Min Bore Size 20 mm and Max OD 100 mm
ROUND RODS/BARS	6 mm To 130 mm
HEX	5 mm To 60 mm
SQUARE	4 mm To 60 mm
FLAT	5mm Min Thickness and max Width 120 mm
PROFILES / SECTIONS	As per Customer Drawing
BILLETS	Up to 200 mm
INGOTS	As per Specification

Regd. Office & Plant

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