



MANGANESE BRONZE

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
UNS	C67300
UNS	C67400
UNS	C67420

C66800 Processing and Property: 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 :

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

Young's Modulus	16700 ksi
Density	0.300 lb/in ³
Melting Range	1690 - 1730 oF
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
Coefficient of Friction	0.15

SIZES AVAILABLE :

ROUND RODS
HEX
SQUARE
FLAT
BILLETS
INGOTS

8mm To 100 mm
10mm To 100mm
10mm To 60mm
10mm Min Thickness and max Width 120mm
Up to 200 mm
As per Specification

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