



MANGANESE BRONZE

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
UNS	C66800
UNS	C67300
UNS	C67420

C67600 : 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

ASTM B138, QQ-B-728

Typical Uses:

INDUSTRIAL: Gate Valve Stems, Welding Rod, Valve Balls

CHEMICAL COMPOSITION

	Cu	Fe	Pb	Mn	Sn	Zn
Min/Max	57.0 - 60.0	0.40 - 1.3	0.50 - 1.0	0.05 - 0.50	0.50 - 1.5	Rem
Nominals	58.5000	0.8000	0.7000	0.2700	1.0000	38.7000

PHYSICAL PROPERTIES

Product Property	US Customary
Coefficient of Thermal Expansion	11.8 $\times 10^{-6}$ per oF (68-572 F)
Density	0.302 lb/in ³ at 68 F
Electrical Conductivity	24 %IACS @ 68 F
Melting Point - Liquidus	1630 F
Melting Point - Solidus	1590 F
Modulus of Elasticity in Tension	15000 ksi
Modulus of Rigidity	5600 ksi
Thermal Conductivity	61.0.0 Btu \hat{A} • ft/(hr \hat{A} • ft ² \hat{A} • 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

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