



C67400 MANGANESE BRONZE

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
UNS	C67400
JIS	C6783 BD
SAE	J461, J463
DIN	

C67400 Manganese Bronze Alloy, with a nominal composition of 57-60% copper and 2.0-3.5% Manganese, alloy is manufactured using the process of bending, drawing, upsetting, and many other processes. The alloy is excellent on hot and cold workability and forges ability.

TYPICAL USES for C67400 Manganese Bronze:

Industrial: Bushings, Shafts, Cams, Chain Guides, Wear Plates, Gears, Food Conveyor Chain, Other: Connecting Rods

CHEMICAL COMPOSITION

	Cu	Pb	Sn	Zn	Fe	Ni	Al	Mn	Si
Min	57.0						0.50	2.0	0.50
Max	60.0	0.50	0.30	Rem	0.35	0.25	2.0	3.5	1.5

PHYSICAL PROPERTIES

Melting Point – Liquidus °F	1625
Melting Point – Solidus °F	1590
Density lb./cu in. at 68°F	0.292
Specific Gravity	8.08
Electrical Conductivity*% IACS at 68°F	23
Thermal Conductivity Btu/ sq. ft/ ft.Hr/ °F at 68°F	58
Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 – 572°F)	11
Specific Heat Capacity Btu/ lb. /°F at 68°F	0.09
Modulus of Elasticity in Tension (ksi)	16000
Modulus of Rigidity (ksi)	6000

SIZES AVAILABLE :

ROUND RODS	1.2mm To 250 mm
HEX	5mm To 60mm
SQUARE	4mm To 60mm
FLAT	4mm Min Thickness and max Width 120mm
BILLETS	Up to 200 mm
INGOTS	As per Specification

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NABL / ISO : 15189
Accreditation Number: M - 0000

