



SHREE EXTRUSIONS LIMITED



C86300

HIGH TENSILE MANGANESE BRONZE

EQUIVALENT SPECIFICATIONS

SPECIFICATIONS	DESIGNATION
ASTM	C86300
BS	BS 1400 HTB3
EN	CC762S
DIN	2.0598
ISO	CuZn25Al6Fe3Mn3

C86300 High Tensile Manganese Bronze is ideal for high load, low speed applications that require a combination of outstanding wear characteristics and high bearing strength. Despite its strength characteristics, however, this manganese bronze alloy is not heat-treatable, needs reliable lubrication and should be used in conjunction with hardened shafts. The lead in the alloy's makeup improves machinability without materially affecting its mechanical properties.

TYPICAL USES for C86300 High Tensile Manganese Bronze:

Industrial: Marine hardware, clamps, covers for marine hardware, boat parts, and rudders , Bushings, High Strength Machine Parts, Gears, Bridge Pins, Propellers, Hydraulic Cylinder Parts, Large Valve Stems, Heavy Load Bearings, Hydraulic Cylinder Parts.

CHEMICAL COMPOSITION

	Cu	Pb	Sn	Zn	Fe	Ni	Al	Mn
Min	60.0	-	-	22.0	2.0	-	5.0	2.5
Max	66.0	0.20	0.20	28.0	4.0	1.0	7.5	5.0

PHYSICAL PROPERTIES

Melting Point – Liquidus °F	1693
Melting Point – Solidus °F	1625
Density lb./cu in. at 68°F	0.283
Specific Gravity	7.83
Electrical Conductivity*% IACS at 68°F	8
Thermal Conductivity Btu/ sq. ft./ ft.Hr/ °F at 68°F	20.5
Coefficient of Thermal Expansion 68-57210 ⁻⁶ per °F (68 – 572°F)	12
Specific Heat Capacity Btu/ lb. /°F at 68°F	0.09
Modulus of Elasticity in Tension (ksi)	14200

SIZES AVAILABLE :

ROUND RODS	1.2mm To 250 mm
HEX	5mm To 65mm
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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