NWB®

High Performance Bearing Technology

C67300 MANGANESE BRONZE



This is a high strength leaded silicon manganese bronze with typically good bearing qualities. This alloy maintains high impact resistance with excellent machinability making it well suited for clutch bearings, shaft bushings, sleeve bearings, thrust bearings, pump parts, drive shafts, bearing pins, wear plates, gears and cams. Resists squashing out under high loads and extreme wear applications.

Alternative Specifications

ASTM B-249
SAE J463. J461

Physical Properties

Machinability Rating 70

Room Temp Tensile & Hardness Data

FORM	TEMPER	TENSILE STRENGTH (KSI) MIN	YIELD STRENGTH (KSI) MIN	ELONGATION IN HD MIN	BRINELL (3000 KG)
ROD	EXRUDED	68	48	12%	126

Typical Uses

Aerospace
Landing Gear Parts, Strut Bushings

Fasteners
Screw Machine Parts, Bearings, Bushings, Gears, Lead Screw Nuts

Other Industrial
Clutch Bearings, Shaft Bushings, Propeller Shafts, Sleeve Bearings, Thrust Bearings, Pump Parts, Seal Rings, Spindles Cylinder Liners, Idler Pins, Drive Shafts, Piston Heads, Hydraulic Pump Parts, Bearings, Bushings, Bearing Pins, Wear Plates, Gears, and Cams

Marine
Hardware, Valve Seats, Gears, Nuts

Other
Connecting Rods, Slow Speed Heavy Load Bearings, Gears, Gibs, Cams

Chemical Composition

	Cu[1]	Al	Fe	Pb	Mn	Ni[2]	Si	Sn	Zn
min/max	58.0-63.0	.25	.50	.40-3.0	2.0-3.5	.25	.50-1.5	.30	Rem.
nominal	60.5	-	-	1.7	2.7	-	1.0	-	34.1

(1) Cu value includes Ag.
(2) Ni value includes Co.
Note: Cu + Sum of Named Elements, 99.5% min.

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