

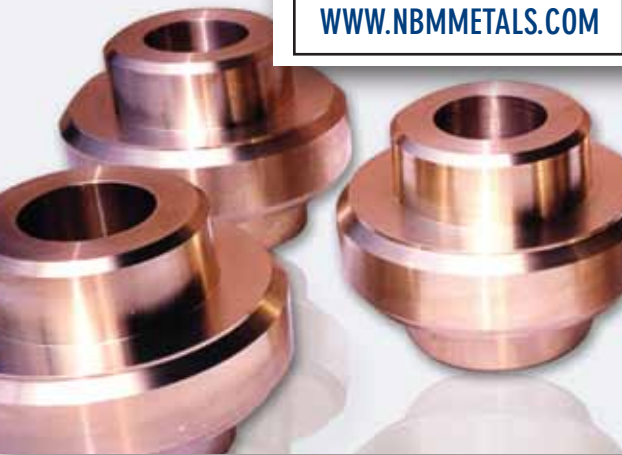


**C67300**

# MANGANESE BRONZE

[WWW.NBMMETALS.COM](http://WWW.NBMMETALS.COM)

LEADING MANUFACTURER & MASTER DISTRIBUTOR OF BRASS, BRONZE, & COPPER ALLOYS



**Offered in solid & hollow bars.**

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.

## Sizes Available From NBM

SOLID BAR . . . . . 1/4" - 4" diameter in extruded & drawn condition  
 SOLID BAR . . . . . 4 1/4" - 16" diameter in cast & turned condition  
 HOLLOW BAR . . . . . in the above O.D. size ranges available upon request

## Spec Equivalents

ASTM B-249  
 SAE J463, J461

## Chemical Composition

	Cu <sup>(1)</sup>	Al	Fe	Pb	Mn	Ni <sup>(2)</sup>	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.

## General Notes

We also offer C67310 with elevated hardness suitable for the manufacturing of gear blanks.

A special C67300 modified, "low lead" grade of C67300 which is suitable for hot forging applications is also available.

## 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



**NATIONAL  
BRONZE &  
METALS, INC.**

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### Room Temp Tensile & Hardness Data

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

### Physical Properties

Machinability Rating . . . . . 70



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