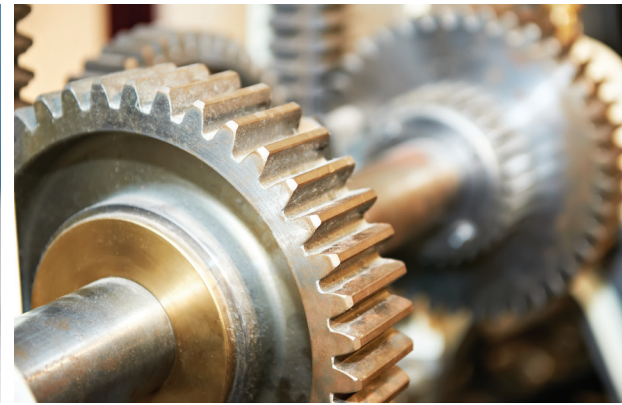
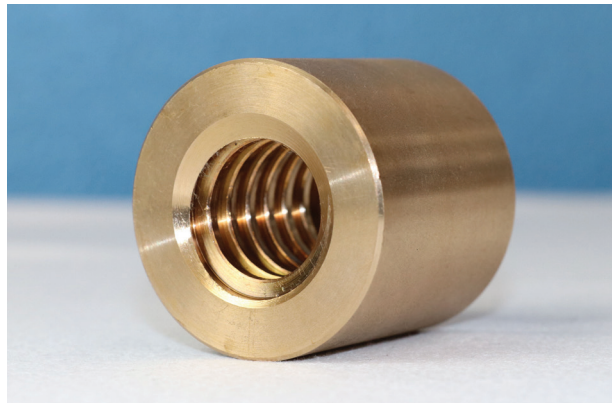


C67300 MANGANESE BRONZE

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.

TYPICAL USES

Fasteners

Fasteners, lead screw nuts, bolts, acme nuts, idler pins, idler shafts

Other Industrial

Bushings, bearings, gears, cam followers, hydraulic pump parts, hydraulic actuators, sleeve bearings, seal rings

Automotive & Construction Equipment

Valve guides, connecting rods, clutch bearings, spindles, pivot arm bushings, crawler bushings, speed reducer gears

Marine

Propeller shafts, shaft bushings, sleeve bearings, thrust bearings, valve seats, hardware, gears, nuts

Positioning & Motion Systems

Screw jack nuts, stem nuts, mechanical actuators, linear actuators, satellite positioners, worm drives, winch gears

General Use

Heavy & slow speed load bearings, gears, gibs, cams and wear plates

SIZES AVAILABLE

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

SIMILAR OR EQUIVALENT SPECS

ASTM B-249

SAE J463

SAE J461



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C67300 MANGANESE BRONZE

Chemical Composition, Mechanical Properties, Physical Properties, General Notes

CHEMICAL COMPOSITION

	Cu	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

MECHANICAL PROPERTIES

FORM	TEMPER	SECTION SIZE (INCHES)	TENSILE STRENGTH (KSI) MIN	YIELD STRENGTH (KSI) MIN	ELONGATION IN HD MIN	HARDNESS MIN
ROD AND BAR	EXTRUDED	ALL SIZES	55	25	20%	60
	SOFT	ALL SIZES	55	25	20%	50
	1/2 HARD	- / 1.0	65	40	12%	70
	1/2 HARD	1.0 / 3.0	58	35	15%	70
	1/2 HARD	3.0 / -	55	30	18%	65
	1/2 HARD	ALL SIZES	60	30	20%	70
	HARD	- / 1.0	70	50	10%	70
	HARD	1.0 / 2.0	62	42	15%	70
SHAPES	EXTRUDED	ALL SIZES	55	25	20%	60

PHYSICAL PROPERTIES

Machinability Rating %..... 70

GENERAL NOTES

We also offer C67310 modified which is suitable for hot forging applications and suitable for the production of gear blanks.

AVIVA Color Code



GREEN / BLACK

The values listed on this document represent reasonable approximations suitable for general engineering use. Due to commercial variations in composition and to manufacturing limitations, they should not be used for specification purposes. See applicable A.S.T.M. Specification references.

www.avivametals.com

www.avivametals.eu

USA / Canadian Sales
(713) 869-9600
sales@avivametals.com



European Sales
+33 494 109 386
info@avivametals.com



Mexico Sales
+521 81 1911 2958
ventas@avivametals.com

Other Territories
trading@avivametals.com