

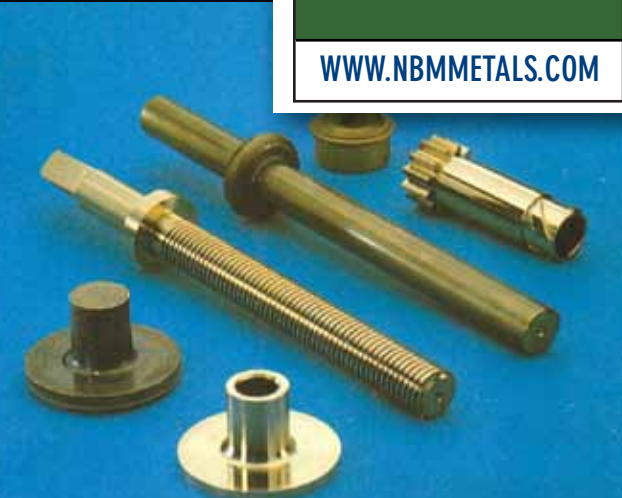


C67500

MANGANESE BRONZE "A"

WWW.NBMMETALS.COM

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



Offered in solid & hollow bars.

Basically a high tensile brass, containing tin and manganese. Its principal characteristics are high strength, toughness and excellent resistance to corrosion. It is characterized by excellent forgeability combined with good soldering and brazing properties.

Sizes Available From NBM

- SOLID BAR 1/4" - 4" diameter in extruded & drawn condition
- SOLID BAR 4 1/4" - 12" diameter in cast & turned condition
- HOLLOW BAR in the above O.D. size ranges available upon request

Spec Equivalents

ASTM B-138, B-124
SAE J463, J461

Chemical Composition

	Cu ⁽¹⁾	Al	Fe	Pb	Mn	Sn	Zn
min/max	57.0-60.0	.25	0.8-2.0	.20	.05-.50	.50-1.5	Rem
nominal	58.5	-	1.4	-	.10	1.0	39.0

%max, unless shown as range or min)
(1) Cu value includes Ag.
Note: Cu + Sum of Named Elements, 99.5% min.

Typical Uses

Automotive

Clutch Disks, Shafting, Pump Rods

Fasteners

Bolts, Studs, Nuts, Pins

Industrial

Valve Stems, Valve Bodies, Balls, Bushings, Aircraft Parts

Marine

Hardware, Shafting, Sleeves, Nuts

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www.nbmmetals.com



**NATIONAL
BRONZE &
METALS, INC.**

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Room Temp Tensile & Hardness Data

FORM	TEMPER	SECTION SIZE (INCHES)	TENSILE STRENGTH (KSI) MIN	YIELD (KSI) .5% ext under load	ELONGATION IN HD MIN	ROCKWELL HARDNESS (B)	SHEAR STRENGTH (ksi)	FATIGUE STRENGTH (ksi)
ROD	H01	2	72	42	27%	77	44	-
	O60	1	65	30	33%	65	42	-
	H02	1	84	60	19%	90	48	-
	H01	1	77	45	23%	83	47	-

Physical Properties

Melting Point - Liquidus	1630 F
Melting Point - Solidus	1590 F
Density	0.302 lb/in ³ at 68 F
Specific Gravity	8.36
Electrical Resistivity	43.2 ohms-cmil/ft @ 68 F
Electrical Conductivity	24 %IACS @ 68 F
Thermal Conductivity	61.0 Btu · ft/(hr · ft ² ·°F)at 68F
Coefficient of Thermal Expansion	11.8 · 10 ⁻⁶ per °F (68-572 F)
Specific Heat Capacity	0.09 Btu/lb/°F at 68 F
Modulus of Elasticity in Tension	15000 ksi
Modulus of Rigidity	5600 ksi
Machinability Rating	30
Forgeability Rating	80



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