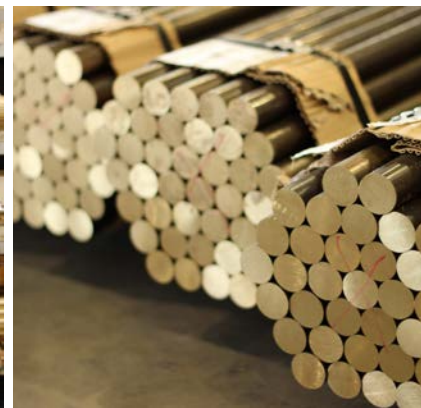


C93700 BEARING BRONZE

Offered in solid & hollow bars



This is a high leaded tin bronze used for high speed and heavy pressure applications where corrosion resistance is necessary. The increased lead content provides added self lubricity within the family of tin bronzes. Excellent machinability at 80%!

Typical Uses

Aerospace

Heavy Load Bearings, Screw Down Nuts, Hydraulic Cylindrical Parts

Builders Hardware

Brackets

Fasteners

Washers for Engines, Nuts

Other Industrial

Crank Shafts, Bushings, Machine Parts, High Speed, Heavy Load Bearings, Pumps, Pressure Tight Castings, Impellers, Corrosion Resistant Castings, Bushings for high speed and heavy pressure., Applications Requiring Acid Resistance to Sulphite Fluids, Bearings, Bearing Plates, Parts for Steel Mill Maintenance, Slide Guides for Steel Mills

Marine

Large Bearings for Ships

Sizes Available from NBM

Hollow Bar.....1/2" I.D. x 5/16" O.D. thru 4 1/2" I.D. x 6" O.D.

Solid Bar.....1/2" - 8" diameter

Similar or Equivalent Specifications

Continuous

ASTM B-505
SAE J461, J462

Centrifugal

ASTM B-271
AMS 4842
SAE J461, J462

 **NBM Metals**
www.nbmmetals.com

The Leading USA Manufacturer & Master Distributor
of Brass, Bronze, & Copper Alloys

C93700 BEARING BRONZE

Chemical Composition, Thermal Properties, Physical Properties

Chemical Composition

	Cu ⁽¹⁾	Pb	Sn	Zn	Fe ⁽²⁾	P ⁽³⁾	Ni ⁽⁴⁾	Al	S	Sb	Si
min	78.0	8.0	9.0								
max	82.0	11.0	11.0	0.8	0.7	0.10	0.50	0.005	0.08	0.50	0.005

(1) Cu + Sum of Named Elements, 99.0% min.

(2) Fe shall be 0.35% max., when used for steel-backed bearings

(3) For continuous castings, P shall be 1.5%, max.

(4) Ni value includes Co.

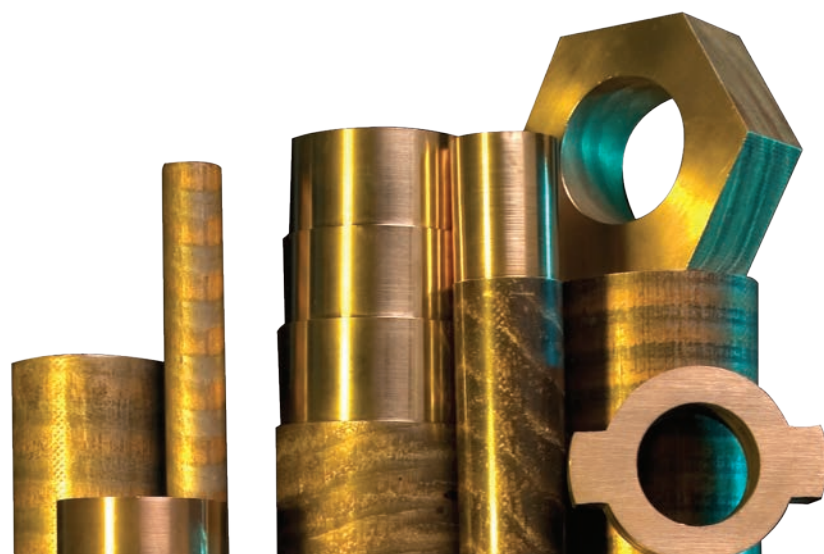
Room Temp Tensile & Hardness Data

Casting	Temper	Tensile Strength (ksi) min	Yield Strength (ksi) min	Elongation In HD min	Brinell (3000 kg)
Continuous	As cast	35	20	6	-

Physical Properties

Melting Point - Liquidus °F.....	1705
Melting Point - Solidus °F.....	1403
Density lb/cu in @ 68 °F.....	0.32
Specific Gravity.....	8.86
Electrical Conductivity % IACS @ 68 °F.....	10
Thermal Conductivity Btu/ sq ft/ ft hr/ °F at 68°F.....	27.1
Coefficient of Thermal Expansion 10 ⁻⁶ per °F (68-212 °F).....	10.3
Specific Heat Capacity Btu/lb/ °F @ 68 °F.....	0.09
Modulus of Elasticity in Tension ksi.....	11000
Incipient Melting °F.....	600
Magnetic Permeability.....	1
Machinability Rating.....	80

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.



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