

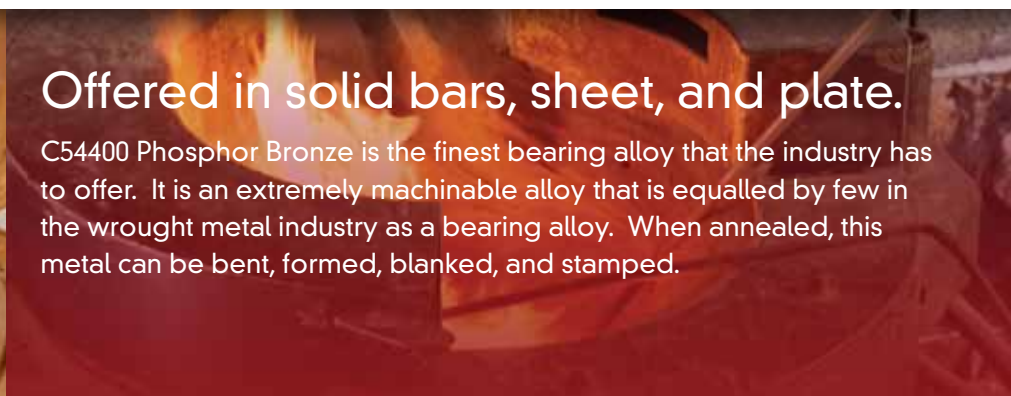


C54400

PHOSPHOR BRONZE (B-2, Free Cutting)

WWW.NBMMETALS.COM

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



Offered in solid bars, sheet, and plate.

C54400 Phosphor Bronze is the finest bearing alloy that the industry has to offer. It is an extremely machinable alloy that is equalled by few in the wrought metal industry as a bearing alloy. When annealed, this metal can be bent, formed, blanked, and stamped.

Sizes Available From NBM

SOLID BAR 3/16" - 6" diameter
 HEX BAR 3/8" - 2" across the flats
 SHEET AND PLATE available upon request

Spec Equivalents

ASTM B-103, B-139
 SAE J463, J461

Typical Uses

Electrical

Electrical Connectors

Other Industrial

Bushings, Gears, Pinions, Shafts, Valve Parts, Sleeve Bearings, Thrust Bearings, Screw Machine Products, Bearings, Thrust Washers, Cam Roller Pins, Washers for Fire Sprinklers

Chemical Composition

	Cu	Fe	Pb	P	Sn	Zn
min/max	Rem.	.10	3.0 - 4.0	.01 - .50	3.5 - 4.5	1.5 - 4.5
nominal	88.0	-	3.8	.25	4.0	3.0

Note: Cu + Sum of Named Elements, 99.5% min.

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www.nbmmetals.com

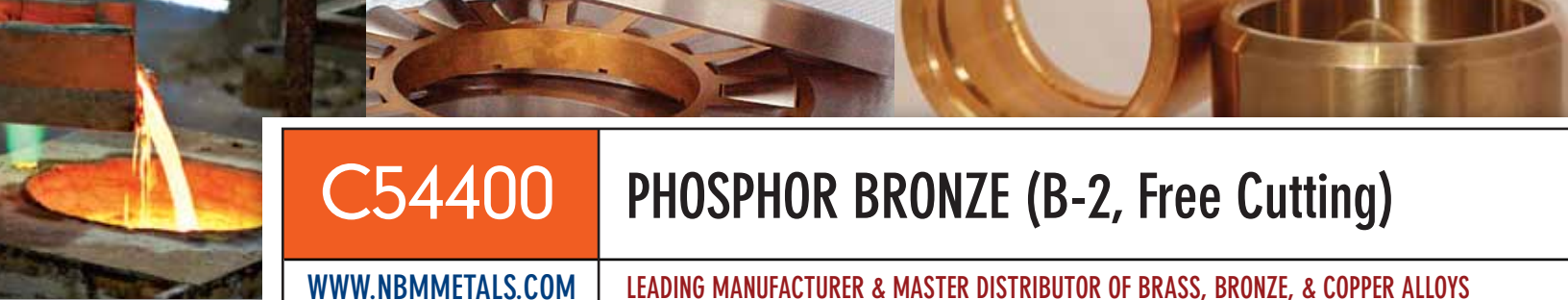


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Room Temp Tensile & Hardness Data

TEMPER	SECTION SIZE (INCHES)	TENSILE (KSI) MIN	ELONGATION IN HD MIN
H04 Hard	1/4" - 1/2"	60	10%
	Over 1/2" - 1"	55	12%
	Over 1"	50	15%

Physical Properties

- Melting Point - Liquidus 1830 F
- Melting Point - Solidus 1700 F
- Density 0.32 lb/in³ at 68 F
- Specific Gravity 8.89
- Electrical Resistivity 54.6 ohms-cmil/ft @ 68 F
- Electrical Conductivity 19 %IACS @ 68 F
- Thermal Conductivity 50.0 Btu · ft/(hr · ft²·°F)at 68F
- Coefficient of Thermal Expansion 9.6 · 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 80



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