

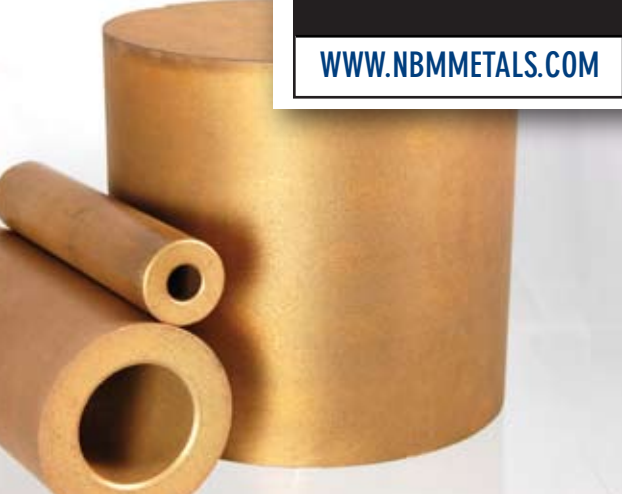


# SAE 841

# SINTERED BRONZE / OIL IMPREGNATED

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

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



**Offered in solid & hollow bars.**  
One of the finest powder metal bearings on the market. By using a proprietary blending and sintering process this gives us a uniform grain structure and spheroidized porosity which results in superior strength, lower coefficient of friction and a uniform oil coating of the mating shaft. During operation, oil impregnated bronzes have a proven record of excellent wear resistance and long life where normal lubrication is difficult or impossible to provide.

### Sizes Available From NBM

SOLID BAR . . . . . 1/4" - 8" diameter  
HOLLOW BAR . . . . . thru 8" O.D.  
The above are provided in 6 1/2" standard lengths.  
FLATS, SPECIAL SHAPES, AND SHORTER LENGTHS  
ARE AVAILABLE UPON REQUEST AND MADE TO ORDER.

### Spec Equivalents

ASTM B-438 (Grade 1 Type 2)  
AMS 4805  
SAE 841  
MIL-B-5687D

### Typical Uses

- Aerospace**  
Materials for Aircraft and Space Vehicles
- Automotive**  
Gears, Cams, Sprockets, Bushings, Sleeves
- Other Industrial**  
Machinery Components, Self-lubricating Pump Parts, Turbine Blades, Office Machines, Home Appliances, Medical Equipment
- Agricultural**  
Farm, Lawn and Garden Equipment

### Chemical Composition

	Cu	Fe	Pb	C	Sn	Zn
min/max	87.5-90.5	1.0	-	1.75	9.5-10.5	-
nominal	-	-	-	-	-	-

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

LOOK FOR OUR NEW AND IMPROVED WEBSITE!  
[www.nbmmetals.com](http://www.nbmmetals.com)



**NATIONAL BRONZE & METALS, INC.**

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## Room Temp Tensile & Hardness Data

DENSITY (GM PER CU.CM)	POROSITY (% OIL BY VOL)	"K" STRENGTH CONSTANT	TENSILE STRENGTH (PSI)	YIELD STRENGTH IN COMP. (PSI)	ELONGATION (% IN ONE IN)	BRINELL (3000 KG)
6.4-6.8	19 min.	26,500	14,000	11,000	1%	-

Note: Bearings may exhibit appreciable differences in properties due to size, shape, thickness, etc...

## Benefits

- Tight tolerances allow for reduced shaft clearances and better press fits.
- Long lasting self lubrication provides an oil film for smooth start-ups
- Elimination of oil groove and oil hole
- Can be re-oiled when dry  
(submerge in SAE 30 motor oil for 72 hours at room temperature to replenish)



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