

SPECIAL BRONZES FOR SPECIAL APPLICATIONS

#120 HIGH LEAD BRONZE

Formulated specifically for bearings that are difficult to lubricate or subject to high local heat, #120 High Lead is the ideal metal when lubrication is challenging, yet strength is required. The higher lead content (20%) of Magnolia's #120 High Lead Bronze allows the bearing to withstand a harsher environment, absorbing dirt, grit and other foreign matter that may otherwise damage the shaft. #120 High Lead has as much as **3 times** the lead content of SAE 660 and only $\frac{1}{3}$ the zinc content.

Magnolia's unique casting process eliminates the problems found in sand and centrifugal castings, assuring that the lead is evenly dispersed throughout the metal. #120 High Lead has been readily substituted for alloy CDA 938, 941, 943 and 945 applications.

TYPICAL CHEMICAL ANALYSIS

	COPPER	TIN	LEAD	ZINC
#120 High Lead	73-77%	5-7%	18-20%	<1%

TYPICAL PHYSICAL CHARACTERISTICS

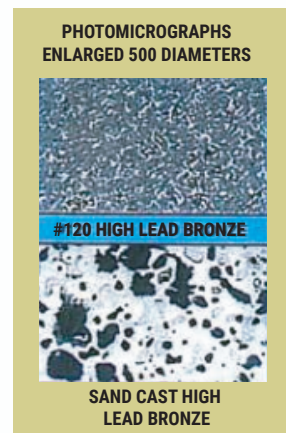
TENSILE STRENGTH	YIELD POINT	BRINELL	ELONGATION IN 2"
28,000	16,000	55	10

COMPARE QUALITY

The alloys shown in these unretouched photomicrographs are both high leaded bronzes (20% lead). The obvious difference between them is the casting process used and the superior product that results. Magnolia's exclusive crystal control steel casting method assures completely uniform dendritic crystallization without segregation. The result is the perfect high leaded bronze bearing metal.

The bottom photo illustrates the quality difference in bronze cast in sand without Magnolia's exclusive crystal control casting process. Notice the conglomerate sponge structure showing black segregated lead and white copper/tin crystals. This product is definitely inferior in quality. Absolutely none of Magnolia bronze products are cast in sand. This eliminates segregated elements, trapped gases and internal faults.

Why just hope to get a good casting when Magnolia will guarantee one?



- Steel-cast bronze up to 34" O.D.
- Continuous cast bar up to 12 1/2" O.D.
- Machined blanks or finished to print

