

Parts Now Available In New **B-1** LEAD-FREE Bronze!



MAGNOLIA



EXCELLENCE IN FINISHED BEARINGS

**PRECISION
PRICE
PERFORMANCE**

10675 Bedford Avenue, Suite 200, Omaha, Nebraska

Toll Free: 1-800-228-4043 • www.magnoliabronze.com

QUALITY

A BETTER PROCESS: A BETTER PRODUCT

Magnolia Bronze bushings and bearings, die cast in steel molds, remain absolutely free of any hidden sand particles which may damage the shaft. This unique casting process allows for a uniform, or "isotropic" crystal structure unlike that found in sand cast metals.

In addition to eliminating all pattern costs, the Magnolia method gives you a perfect bearing metal at a price often surprisingly lower than the original equipment manufacturer's replacement part.

Send your own blueprint in detail for quoting and ordering purposes. We handle all inquiries promptly.

A BETTER BRONZE: A BETTER PRODUCT CDA 936 SUPERIOR TO CDA 932

Tests conducted in both a national laboratory and a major university confirm Magnolia CDA 936 consistently outperforms CDA 932 (SAE 660) under the most difficult conditions in test after test.

CDA 936: BETTER BECAUSE

- Higher lead content gives better lubricating properties and provides better co-efficient of friction. Bearings run cooler, last longer.
- One and a half times as resistant to pounding.
- Acid resisting to sulphite fluids due to lower zinc. CDA 936 can be used in areas where CDA 932 would corrode.



STANDARD COMMERCIAL MACHINE TOLERANCE (UNLESS OTHERWISE SPECIFIED)

Inside Diameter:

Up to 3" I.D. ± .001"
3" I.D. and up ± .0015"

Outside Diameter:

Up to 3" O.D. + .002" to + .003"
3" O.D. to 5" + .003" to + .005"
5" O.D. and up + .003" to + .006"

Concentricity (Total Indicator Reading)

3/4" through 3" O.D.003 maximum
Over 3" through 8" O.D.004 maximum
Over 8" O.D.005 maximum

All lengths will be held to ± .005"



CONSISTENCY AND QUALITY guaranteed by using our Jarrell-Ash® Atom Computer 7000 Spectrometer.

THE BEST BRONZE: TESTED & PROVEN

Laboratory Tests Prove It!

Tests conducted by a national laboratory verify that Magnolia CDA 936 consistently outperforms CDA 932 (SAE 660) under the most difficult conditions in test after test.

The bearings were run with inadequate lubrication until temperatures exceeded 400°F. Under these severe conditions, in some instances the CDA 932 wore out three times faster than CDA 936. In **no** test did CDA 932 outperform CDA 936.

Newly completed tests by a major university also prove that Magnolia's CDA 936 alloy has a significantly higher failure resistance than CDA 932. Despite extreme circumstances, operating without lubrication, CDA 936 ran an average of 78% longer than CDA 932, and with none of the incidents of severe shaft scoring found among the CDA 932 tests.

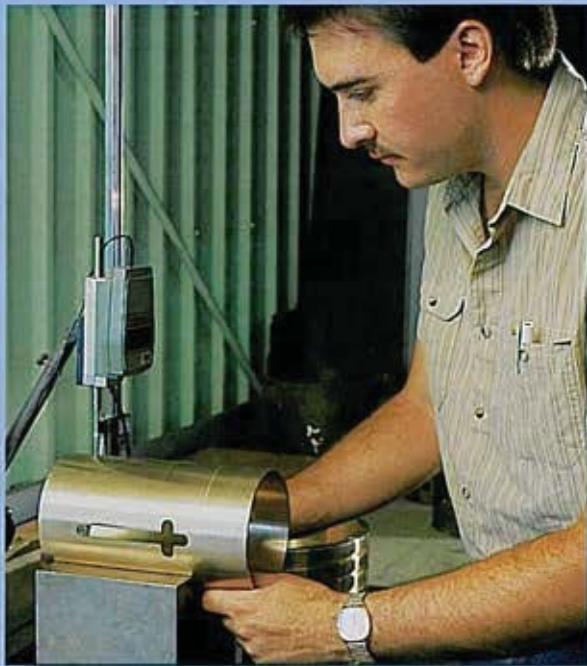
Typical Physical Characteristics				
	TENSILE STRENGTH	YIELD POINT	BRINELL	ELONGATION IN 2"
CDA 936	35,000 psi	21,000 psi	65	15
CDA 932	35,000 psi	18,000 psi	65	15

Chemical Composition				
	COPPER	TIN	LEAD	ZINC
CDA 936	79-83%	6-8%	11-13%	<1%
CDA 932	81-85%	6-7.5%	6-8%	2-4%



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CALL: 800-228-4043



QUALITY CONTROL:

Finished parts closely inspected to insure and maintain your standard of excellence.

MAGNOLIA GUARANTEES NO REJECTS

Magnolia Bronzes are guaranteed to be free from all defects. In Magnolia Bronze there are no blow-holes, no sand spots, no segregated elements, no flaws... no under-surface faults of any kind to cause rejection.

In accordance with industry practices, guarantee is limited to free replacement of material returned. But why just "hope" to get a good casting? Magnolia's quality control procedure has resulted in returns of **less than 1/2 of 1%** of all bronze shipped over the last 10 years. This standard of excellence combined with our special alloy and our unique casting process assures you of the best possible value in bearing bronze.

STYLES OF STANDARD OIL GROOVES

Style B1



Style B2



Straight



Circular



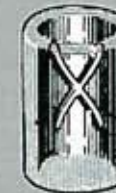
Style B4



Style B5



Style B11



1886



TODAY



Manufactured by

Magnolia Metal Corporation

Toll Free: 1-800-228-4043 • Fax: 402-455-8762

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