



# 10 REASONS



Why you should use

## MAGNOLIA CDA 936 BRONZE (MODIFIED SAE 64)

With its higher, well-dispersed lead content and its significantly lower tramp zinc, Magnolia Modified SAE 64 Bronze is specially formulated for the needs of steel mills, compressor manufacturers, oil refineries, and heavy industry. A bronze bearing is designed to be a sacrificial part, to protect as well as support the more critical shaft. Labor and downtime are more costly than ever; barely 20% of the expense of a maintenance job is the bronze part. Here's why you should be using Magnolia Modified SAE 64 Bronze:

1. Built-in safety valve resists scoring.
2. Bearings run cooler.
3. More tolerance of dirt, foreign matter.
4. Better survival of interruptions in lubrication.
5. 1 1/2 times more resistant to pounding.
6. Corrosion resistant.
7. 13% more freely machining.
8. Less tool wear.
9. Isotropic or even crystal structure.
10. Continuous or steel cast - no blowholes, sand inclusions, etc.

### LABORATORY TESTS PROVE IT:

Tests run by a national laboratory proved Magnolia CDA 936 consistently out-performed CDA 932 under grueling conditions. Bearings of CDA 936 and CDA 932 had rapidly increasing loads applied to them under marginal lubrication and were run until temperatures exceeded 400°. Magnolia CDA 936 showed superior resistance to galling and took a higher load before reaching 400°.

More importantly, under these severe conditions CDA 932 wore out as much as 3 times faster than CDA 936! In NO TEST did CDA 932 out perform the Magnolia CDA 936.

## MAGNOLIA GUARANTEES\* NO REJECTS

	COMPOSITION			
	COPPER	TIN	LEAD	ZINC
CDA 936 (MODIFIED SAE 64)	79-83%	6.0- 8.0%	11-13%	<1%
CDA 932 (SAE 660)	81-85%	6.3-7.5%	6.0-8.0%	2-4%

### TYPICAL PHYSICAL CHARACTERISTICS

	ULTIMATE	YIELD	ELONGATION	BRINELL
	STRENGTH	POINT		HARDNESS
CDA 936 (MODIFIED SAE 64)	35,000 psi	21,000 psi	15%	65
CDA 932 (SAE 660)	35,000 psi	18,000 psi	15%	65

\*In accordance with trade customs this guarantee is limited to replacement of defective material.





## From Casting

- Continuous castings up to 12-1/2" O.D., 105" standard or 144" in length.
- Permanent mold castings up to 34" in diameter.
- Over 300 sizes in stock.
- 3,000,000 pounds of inventory.

## To Semi-finished blanks

- Blanks cut and rough-turned to size to eliminate waste.
- All cast continuously or in steel – NO SAND CASTING.
- Parts are free from defect.



## To Completely Machined Parts

- Ready to install.
- Made to your blueprints and specifications.
- Full detailing, milling, grooving, drilling.
- Graphite grooved or plugged parts.

- \* The Highest Quality, Completely Machined, Ready To Use Parts For Your Most Critical Requirements.
- \* State-Of-The-Art Foundry Delivers Consistent Performance At Very Competitive Prices.

A Computerized Cost System Combined With Modern Machining Equipment in our Own Foundry Enables Magnolia To Provide Among The Most Competitive Prices In The Industry.

**PRECISION • PRICE • PERFORMANCE**



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