

Lignum-Vitae

Water Lubricated Bearings

www.lignum-vitae-bearings.com



Custom Made Bearings



Water / Self Lubricated **BEARINGS**

Benefits of our Bearing:

The Only Renewable Industrial Bearing
NSF/ ANSI 61 Certified –Drinking Water System Components
Long Life • Low Friction • Excellent Startup Ability
Zero Tolerance –Touches the Shaft
Zero Pollution • Eliminates Oil or Grease
Operates in Dirty or Silty Environments
High Performance & High Edge Load

Operating Characteristics:

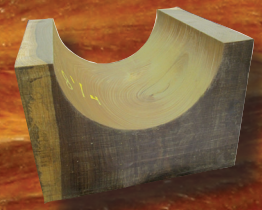
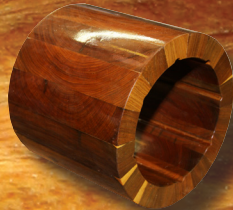
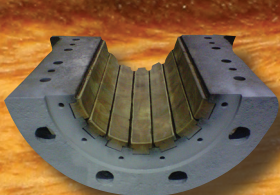
- Requires “ZERO” tolerance - Especially important for older applications with some wear or instability, unlike composite bearings that require inordinate clearance for fear of touching and wiping or smearing the shaft.
- Contains guaiac gum that acts as the lubricant. This water impervious gum glazes the bearing surface, which stays intact for decades, even in dirty or silty water. Unlike other lubricants that are free to flow away from the bearing, guaiac gum is bound in a homogeneous fiber that cannot drain away.
- Contains no abrasives or composites requiring shaft treatments or special coatings.
- Known as the most steel friendly material in use. No moving parts, Nothing to rust or corrode
- Nature’s perfect combination of hardness and lubricity for running against steel.
- “ZERO” wiping or smearing of material onto the shaft, thereby eliminating residual buildup and “thumping.”
- Excellent performance in dirty and silty water, with documented case of 67 years of service on original bearing set in Army Corps of Engineers’ application.
- No need to filter the water or add lubricants required by some composites.
- Easy to install, even when replacing old bearings in remote or crude conditions.

The Environment:

- The only renewable, natural, industrial underwater bearing.
- Requires no grease, oil or other lubricants, which may spill in surrounding water.
- No threat to air, water, or soil, with nothing going into landfill.
- No manufacturing pollution, toxic metals, PCBs, Plastic, VOCs, or exotic chemicals.
- The forest is actively managed to preserve the supply of Lignum Vitae into perpetuity through an internationally recognized agency.

Services Available:

Value Engineering, Reverse Engineering, Manufacturing, Hone & Lap shaft in place, Installation & Supervision On-Site, Immediate Delivery for unplanned Outages. Shaft and Bearing Assessment.



Hydro Power • Marine • Water Treatment Plants • Industry

804-337-7169 • Email: bshortridge@lignum-vitae.com • www.lignum-vitae-bearings.com



Lignum Vitae Water Lubricated bearings commonly replaces composite, plastic, bronze, babbitt and oil filmed bearings. The material is the oldest bearing in service with unmatched longevity in water applications. It has tremendous load bearing qualities and unique shock absorbing qualities that no other material can match.

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Water Lubricated Bearing
NSF-61 Certified
No Moving Parts

Benefits of the Material

- Self lubricating
- 100% bearing material
- Low maintenance
- Clean or Dirty Water
- Low friction
- High shock load
- High edge load
- Easy to machine
- Non conducting
- Easy installation
- Custom made to your specs



Shaft Sizes and Bearing Useful Life:

Lignum vitae bearings currently support shafts of any diameter, with a bearing useful life in excess of 60 years.

Types of Bearings

- Shell
- Thrust
- Tube
- Pillow Block
- Split
- Hanger
- Mushroom
- Stave
- Horizontal
- Seals and Wear Pads

Bearings for your Applications- What do you Need?



“Discontent is the first necessity of change” -Thomas Edison

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