Lignum-Vitae

Water Lubricated Bearings



Custom Marine Bearings





Making history for 165 years in the fastest, most powerful ships and submarines in maritime history while eliminating current EPA compliance issues.

Recent EPA rulings for accidental oil spills is leading conversions back to water lubricated solutions. Lignum-Vitae is the only water lubricated technology that can operate at a zero clearance to replace all oiled and composite bearing types. Converting to Lignum-Vitae will eliminate all potential EPA or DEQ lawsuits and fines for accidental spills along with lower insurance rates from reduced liability. We can engineer existing oiled equipment back to a water lubricated system and avoid all future threat of oil spills.

Lignum-Vitae Water Lubricated bearings commonly replace composite, plastic, bronze, babbitt and oil filmed bearings. Lignum-Vitae is the first water lubricated technology with unmatched longevity in water applications. It has tremendous load bearing and unique shock absorbing qualities that no other material can match. Lignum-Vitae is the only material with over 130 years of proven success.

Benefits of the Material as a Stern Tube Bearing

100% bearing material Low friction Easy installation Non conducting High edge load Run of the river or salt water applications

Low maintenance Easy to machine High shock load Self lubricating Custom made





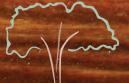




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Marine Stern Tube Bearings

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Lignum-Vitae

Shell Bearings

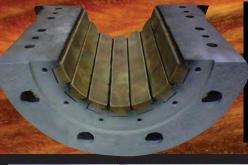


Stern Tube Bearings





Stave Bearings





Stacked Block





Horizontal Bearings

The following are notable "first" bragging rights enjoyed by Lignum Vitae

- First successful stern tube bearing for rotating shafts patented in 1852.
- First bearing to make transatlantic voyage in 1856.
- First transatlantic cable laid 1856 by the SS. Great Eastern (Western)
- First used in largest non-nuclear Icebreakers Polar Star and Polar Sea.
- First nuclear submarine USS Nautilus used lignum vitae in shaft strut bearings.
- Fastest transatlantic voyage in 1952 by SS United States averaging 39.71 MPH that stands today.

Hydro Power • Water Treatment Plants • Marine • Industry