

RBC Aerospace Bearings

High Speed — Low Friction

RBC Fiberglide® VI Liner System

As the *World Leader in self-lubricating liner systems™*, RBC Transport Dynamics offers the unique operating characteristics of the **Fiberglide® VI** liner system. This liner system has proven success at all of the major global helicopter manufacturers.

The **Fiberglide® VI** liner is a third generation liner system that combines the low friction properties of polytetrafluoroethylene (PTFE), commonly known by the brand name **Teflon®** with RBC's proprietary bonding resins and structural fibers. Distribution of the PTFE is moderated by the proprietary liner design to provide consistent low-friction life without needing external lubrication.

Technical Benefits

- High Speed Capability
- Low Coefficient of Friction
- Minimal Break-in Period
- Resistant to Fluid and Abrasive Contamination
- Excellent wear properties against 440C and hard coated balls (including RBC's proprietary Thermaloid® coatings)
- Maintenance Free
- Linear Wear Through Full Liner Thickness

Applications

Helicopter Main and Tail Rotor

- Rotating Controls
- Swashplate Slider (Monoball)
- Pitch Links
- Lead/Lag Damper Bearings
- Drive Scissor Bearings

Landing Gear

- Shock Struts

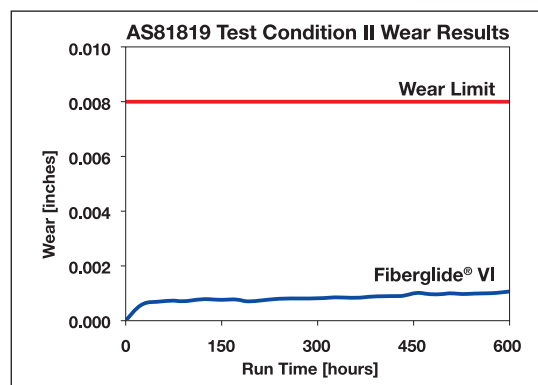
Test Capabilities

RBC has extensive capabilities to simulate your unique application parameters and validate bearing performance.

Please consult with your local Sales Engineer or contact us directly to get a technical design consultation.



Unique design solutions to complex problems.



Teflon® is a registered trademark of E. I. Du Pont de Nemours and Company Corporation Delaware 1007 Market Street, Wilmington, DE 19898.



714.546.3131

www.rbcbearings.com

RBC Aerospace Bearing Products

Innovation. Commitment. Quality.

RBC Bearings has been producing bearings in the USA since 1919. RBC offers a full line of aerospace bearings, including unique custom configurations.



Spherical Bearings

- MS approved to AS81820 (formerly MIL-B-81820)
- Boeing and Airbus approved
- Self-lubricating
- Metal-to-Metal
- Loader slots
- High temperature
- Low coefficient of friction
- Special configurations and materials



Thin Section Ball Bearings

- Standard cross sections to one inch
- Stainless steel and other materials are available
- Sizes to 40 inches
- Seals available on all sizes and standard cross sections
- Super duplex configurations



Journal Bearings

- MS approved to AS81934 (formerly MIL-B-81934)
- Boeing and Airbus approved
- Plain and flanged
- Self-lubricating
- High temperature
- High loads
- Available in inch and metric sizes



Airframe Control Ball Bearings

- MS approved to AS7949 (formerly MIL-B-7949)
- Boeing and Airbus approved
- Single and double row
- Radial, self-aligning, and pulley series
- 52100 Cadmium plated, Zinc Nickel plated and 440C stainless



Ball Bearing Rod Ends

- MS approved to AS6039 (formerly MIL-B-6039)
- Boeing approved
- Various shank configurations
- Low coefficient of friction
- Advanced **AeroCres**® materials available



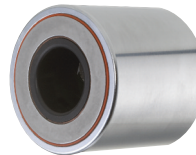
Rod End Bearings

- MS approved to AS81935 (formerly MIL-B-81935)
- Boeing and Airbus approved
- Self-lubricating • Metal-to-Metal
- Loader slots • High temperature
- Low coefficient of friction
- Special configurations and materials



Cargo Roller Bearings

- Boeing approved
- Features precision ground, semi-ground, and unground ball bearings
- Offered in caged and full complement configurations



Track Rollers

- MS approved to AS39901 (formerly MIL-B-3990)
- Boeing and Airbus approved
- ATF single row and ATL double row
- Sealed with lube holes and grooves
- Heavy duty cross sections
- Advanced **AeroCres**® materials available



Cam Followers

- MS approved to AS39901 (formerly MIL-B-3990)
- Advanced **AeroCres**® materials available
- Maximum corrosion resistance
- Superior lubricants and seals to reduce maintenance



Load Slot Bearings

- Spherical and rod end designs
- Superior ball-to-race conformity
- Reduced maintenance cost
- Variety of race materials available
- Boeing approved



Specials

- Many specialty bearings, custom-designed and configured for diverse aerospace applications
- Capability for advanced aerospace specialty corrosion resistant and high temperature materials



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