

RBC Aerospace Bearings

High Temperature — Low Friction

RBC Fabroid® X Liner System

As the *World Leader in self-lubricating liner systems™*, RBC Transport Dynamics offers the unique operating characteristics of the **Fabroid® X** liner. All of the major gas turbine engine manufacturers rely on this proprietary liner system for their critical high temperature low friction plain bearing applications.

The **Fabroid® X** liner system combines the low friction properties of polytetrafluoroethylene (PTFE), commonly known by the brand name **Teflon®** with the rigidity and thermal stability of high temperature resin and structural fiber. Distribution of the PTFE is moderated by the proprietary liner design to provide consistent low-friction life without needing external lubrication.

Technical Benefits

- High Temperature Operation (up to 600°F)
- Low Coefficient of Friction
- High Frequency Vibration Capability
- Extended Operational Life
- Maintenance Free

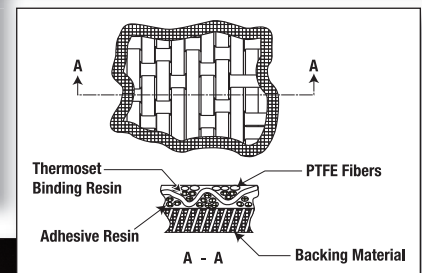
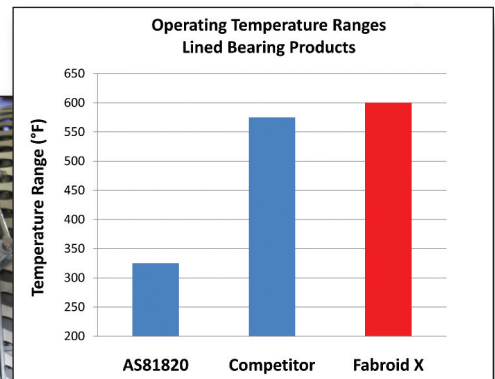
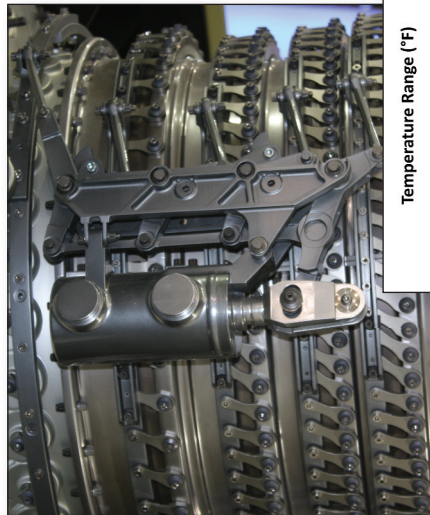
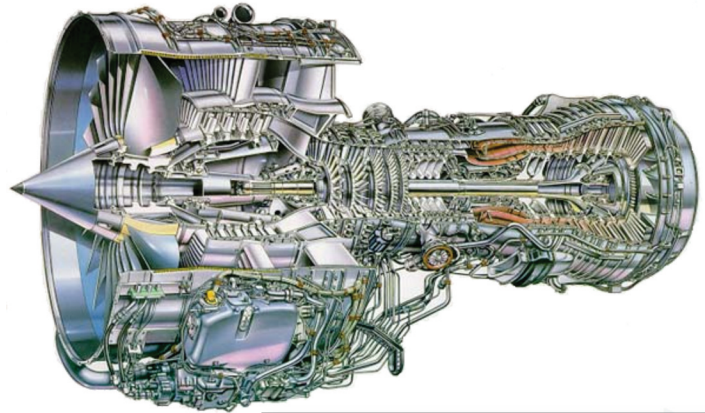
Applications

- Variable Geometry Systems
- Accessory Gearbox Links & Mounts
- Bleed Fan Actuation Systems
- Stator Vane Bushings
- Engine Mounts

The **Fabroid® X** liner used in a spherical, link, journal or rod end has proven to be the cost effective solution for most applications with elevated operating temperatures. On-going laboratory tests and validation of this liner system through customer acceptance continues to prove the value of Fabroid X in these applications.

As the inventor of self-lubricating liner technology, RBC continues to be at the forefront by developing next generation liner systems and expanding the envelope of bearing performance.

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



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



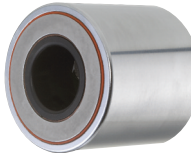
Rod End Bearings

- 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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