RBC Aerospace Bearings

Uniflon™ HP Machinable Liner Bearings

Introducing Uniflon™ HP Machinable Liner Bearings

- Made from a proprietary mixture of advanced technology polymeric resin systems, combined with leading-edge polytetrafluoroethylene (PTFE), and other special lubricating materials.
- Uniflon™ HP is a molded, machinable self-lubricating liner system designed to achieve the lowest friction levels and lowest wear rates for use in the most demanding bearing applications.

Qualifications Include

Exceeds the requirements of:

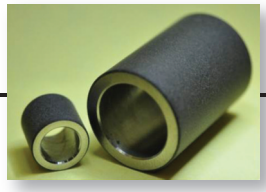
- **SAE AS81934**
- **Boeing BMS 3-39**
- **Lockheed LMA-MRO18**
- **Embraer MP6.4.063 & MP6.4.064**
- **Airbus Helicopter TP-EDVDE5-002/11**

Typical Uses

- Aircraft – actuators, hinges and support bearings for flight controls; gear doors, actuators and braces for landing gear; passenger and emergency door mechanisms; flap and slat track rollers
- Missiles/Space – launch mechanisms, retracting hardware, airlock doors
- Marine – watertight hatches and doors, weapon systems, submarine dive control mechanisms

F35 Joint Strike Fighter image courtesy of the Joint Strike Fighter Program Office.

Typical Machinable Liner Bearings.

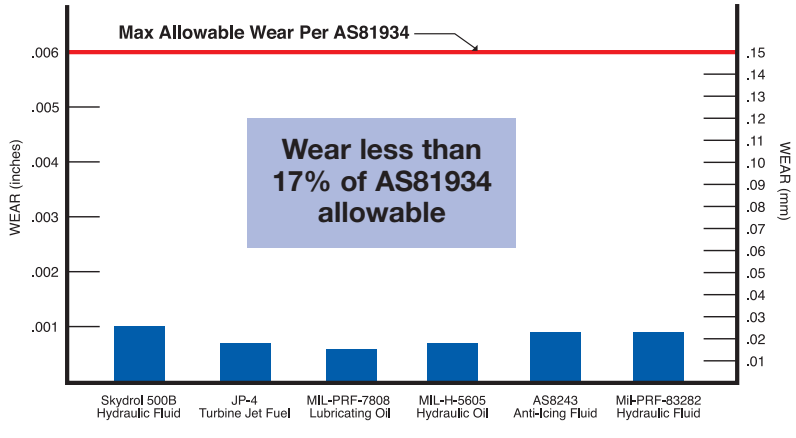


Special Features

- Lowest friction and wear in a single polymeric formulation
- Superior resistance to aerospace chemicals and water
- Uniflon HPA specifically designed for titanium substrates
- Can be applied to unique geometries and materials
- Fully machinable to maintain tighter tolerances

SAE AS81934 Wear Test Chart with Fluid Contamination

AS81934 Test Conditions: 37,500 psi (258 MPa) Hydraulic Fluids, Jet Fuel
25,500 psi (176 MPa) AS8243 Anti-Ice



RBC AEROSPACE BEARINGS

866.RBC.AERO
(866.722.2376)

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 Cad plated and 440C stainless

Ball Bearing Rod Ends

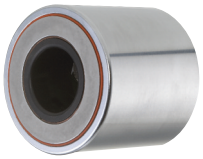
- MS approved to AS6039 (formerly MIL-B-6039)
- Boeing approved
- Various shank configurations
- Low coefficient of friction
- Advanced AeroCres® materials available

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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