



Fiberglide® & Fabroid®

Self-Lubricating, Maintenance-Free Bearings



Smoother. Faster. Longer.

Because That's How We Roll. _____

Fiberglide®/Fabroid®

Self-Lubricating Bearings, Maintenance-Free Bearings

Lubricant	Type of Lubricant	Maximum Load				Coefficient of Friction	Maximum Temperature		Operation in Water	Debris Resistance
		Static		Dynamic			C°	°F		
		Mpa	ksi	ksi	ksi					
Fiberglide®	PTFE Fabric	275	140	40	20	0.04	176	350	Good	Sensitive
Fabroid®		413	262	60	38	0.03	204	400		

Type	Description	Dimensions	Applications
	<p>CJS/CJM</p> <ul style="list-style-type: none"> Inch/Metric Journal Bearings Split Seam Steel Backing Zinc Plated 	<p>NOMINAL SHAFT Ø 0.375" to 7.000" 8 mm to 120 mm</p> <p>BEARING LENGTH 0.250" to 6.500" 8 mm to 165 mm</p>	<p>These bearings work excellent in any pivot or linkage application. For construction and farm equipment, this product is typically used in kingpins, rock shafts, hinges, pedals and many other pivot points.</p>
	<p>CJT</p> <ul style="list-style-type: none"> Inch Journal Bearings Thin Walled Split Seam Steel Backing Zinc Plated 	<p>NOMINAL SHAFT Ø 0.500" to 7.000"</p> <p>BEARING LENGTH 0.375" to 6.000"</p>	<p>These bearings are designed as a direct replacement with conventional 1/16" wall bushings. These bearings are used in self-lubricated chain, variable speed sheaves, boom pivot points on fork lifts and many similar applications.</p>
	<p>CJH</p> <ul style="list-style-type: none"> Inch Journal Bearings Heavy Walled Split Seam Steel Backing Zinc Plated 	<p>NOMINAL SHAFT Ø 0.750" to 7.000"</p> <p>BEARING LENGTH 0.250" to 6.500"</p>	<p>These bearings are designed as a direct replacement with conventional 1/8" wall bronze bushings. Typical applications include suspension points on large trucks and railroad cars. These products are also used in the boom foot pivot of large cranes.</p>
	<p>FTP</p> <ul style="list-style-type: none"> Thrust Packs Two Piece Assembly Metal-Backed 	<p>NOMINAL SHAFT Ø Inner Diameter: 1.000" to 3.000" Outer Diameter: 1.750" to 4.625"</p>	<p>These bearings are used in articulated frame joints, pivot arm supports, kingpins and many other applications.</p>
	<p>FTS/FTM</p> <ul style="list-style-type: none"> Inch/Metric Thrust Bearings Metal-Backed Single-Sided Wear Surface 	<p>NOMINAL SHAFT Ø 0.250" to 3.250" 6 mm to 83 mm</p> <p>Inner Diameter: 0.280" to 3.312" 7 mm to 84 mm</p> <p>Outer Diameter: 0.500" to 4.875" 13 mm to 129 mm</p>	<p>These bearings accommodate thrust in clutches, hospital beds, screw jacks, valve actuators, vehicle suspensions, and many other applications.</p>
	<p>LJS</p> <ul style="list-style-type: none"> Journal Bearings Composite PTFE 	<p>NOMINAL SHAFT Ø 1.000" to 12.000"</p> <p>BEARING LENGTH 0.375" to 6.500"</p>	<p>These bearings are used in many harsh applications and in food handling machinery. Typical applications include butterfly valves and trunnion support pivots. This product is also used in sheaves and hoists for marine</p>
	<p>LTD</p> <ul style="list-style-type: none"> Thrust Bearings Composite PTFE Double-Sided Wear Surface 	<p>NOMINAL SHAFT Ø 0.250" to 3.250"</p> <p>Inner Diameter: 0.280" to 3.312"</p> <p>Outer Diameter: 0.500" to 4.875"</p>	<p>These bearings are used in cam actuator arms, turntable support bearings, exercise equipment, and many other applications.</p>

MATERIAL HANDLING / AERIAL WORK PLATFORMS

With high load and low wear capabilities creating superior stability, low coefficient of friction, and prevention of 'stick-slip,' **Fiberglide®/Fabroid®** bushings are used widely in pivot points, kingpins, and various other areas in scissor lifts, boom and bucket lifts, and more.



MATERIAL HANDLING

When managing heavy vertical loads and repetitive motion, **Fiberglide®/Fabroid®** bushings offer optimal performance. Their strength and smooth motion make them ideal candidates for truck liftgates and hydraulic lift tables.



AGRICULTURE EQUIPMENT

When downtime can be costly, eliminate the need for regreasing with **Fiberglide®/Fabroid®** maintenance free products. Agriculture equipment also benefits from their resistance to fatigue under shock loads.



LAWN & GARDEN EQUIPMENT

Trust the reliability of **Fiberglide®/Fabroid®** in the linkages, kingpins, and pivot points in your lawn and garden equipment. Fiberglide operates dependably in many environments often seen by these machines.



OUTBOARD MOTORS

Aluminum backed **CJS** or **CJM Fiberglide®/Fabroid®** bushing are perfect fits for outboard motors. The elimination of corrosion combined with low cost make these products ideal for steering and tilt pivot applications.



CONVEYOR CHAINS

Fiberglide®/Fabroid® bushings are strategically used in conveyor systems where external lubrication is impractical or contamination must be avoided. Their ability to be used in high temperature environments makes them an excellent choice for a wide range of production lines.



RECREATIONAL VEHICLES & CVT'S

When you're on rough terrain you want even, precise movement from your CVT. **Fiberglide®/Fabroid®** bushings provide ultra-low friction and high thermal stability necessary for a smooth ride.



VALVES

Prevent "stem seizure" and down time by using maintenance free **Fiberglide®/Fabroid®** products in your ball, butterfly, and plug valves. Enhanced corrosion resistance is also available with stainless steel backed varieties.



HYDRAULIC CYLINDERS

Fiberglide®/Fabroid® bushings hold up to the test when faced with the high static and dynamic loads needed for hydraulic cylinders. Additionally, their maintenance free and corrosion resistant qualities make them well suited for tough environments.



Fiberglide®/Fabroid® Product Overview

Product Advantages

1. Design freedom—Fiberglide®/Fabroid® bearings can be incorporated into internal component assemblies inaccessible to conventional lubrication technique, eliminating costly maintenance tear down
2. Maintenance free—The self-lubricating nature of Fiberglide®/Fabroid® makes it an ideal selection for equipment providing service to remote environments such as oil and gas transmission lines and pumping stations
3. Operation without lubrication while tolerating many lubricating and non-lubricating fluids
4. Lead-, mercury-, cadmium-, and grease-free
5. High dynamic load-carrying (up to 20,000 psi)
6. Inherent vibration and noise dampening qualities
7. Low coefficient of friction
8. Freedom from stick-slip
9. Absence of cold-flow tendencies of solid and filled PTFE resins
10. High resistance to fatigue under shock loads
11. Eliminating fretting corrosion
12. Resistant to attack by most substances
13. Operation at temperatures beyond the range of most lubricants, from -200°F to 350°F (-128°C to 204°C), depending on liner
14. Fiberglide® bearings have been tested to have 7-10 times the life of a DU® metal-polymer bearing
15. Good dimensional stability
16. Compatible with a wide range of mating materials
17. Electrically non-conducting


















Typical Applications

Fiberglide®/Fabroid® bearings are being used by many basic manufacturing industries where they have proven their economy, convenience, and dependability.

- ✓ **Aerial Work Platforms**
- ✓ **Steering system for trucks, farm tractors, off-highway equipment**
- ✓ **Heavy-duty suspension systems of trucks, tractors and related equipment**
- ✓ **Brakes for trucks, automobiles, off-road vehicles**
- ✓ **Transmission shift linkages and pivots**
- ✓ **Butterfly, ball plug valves**
- ✓ **Clutches and variable speed sheaves**
- ✓ **Marine equipment**
- ✓ **Pneumatic and hydraulic tools and actuators**
- ✓ **Conveying and material handling equipment**
- ✓ **Recreational vehicles suspensions and controls**
- ✓ **Packaging machinery**
- ✓ **Textile machinery**
- ✓ **Wherever heavy loading and low speed oscillations are encountered**



RBC Bearings® has been producing bearings in the USA since 1919. In addition to unique custom bearings, RBC Bearings® offers a full line of standard industrial and aerospace bearings, including:

 <p>Tapered Roller Thrust Bearings</p> <p>Case-hardened tapered roller thrust bearings for oilfield top drives and swivels. Available in full complement, maximum capacity versions.</p>	 <p>Thin Section Ball Bearings</p> <p>Standard cross sections to one inch. Bore sizes to 40 inches. Stainless steel and other materials are available. Seals are available on all sizes and standard cross sections. Super duplex configurations.</p>	 <p>Cam Followers</p> <p>Standard stud, heavy stud, yoke type, caged roller followers. Patented RBC Roller® cylindrical roller cam followers, HexLube® universal cam followers, airframe track rollers.</p>
 <p>Cylindrical Roller Bearings</p> <p>Cylindrical roller bearings designed for mud pump pinion and eccentric positions. Fully interchangeable to industry standards.</p>	 <p>Needle Roller Bearings</p> <p>Pitchline® caged heavy duty needle roller bearings ideal for cross head bearings applications. These double row bearings are available in single row and TandemRoller® versions.</p>	 <p>Commercial Rod Ends</p> <p>Commercial and industrial, precision, Mil-Spec series, self-lubricating, and aircraft. Sold under the Heim®, Unibal®, and Spherco® names. Available in inch and metric sizes.</p>
 <p>Spherical Plain Bearings</p> <p>Radial, angular contact, extended inner ring, high misalignment. QuadLube®, ImpactTuff®, SpreadLock® Seal, CrossLube®, DuraLube™, and self-lubricating bearings. Available in inch and metric sizes.</p>	 <p>Tapered Roller Bearings</p> <p>Single, double, & multi row versions available for main bearing positions in mud pumps, gear boxes, etc. Bearings are constructed of case hardened steel washers and rollers with bore size of 11" or greater.</p>	 <p>TP Series Bearings</p> <p>RBC Bearings® TP Series cylindrical roller thrust bearings ideal for crane hooks, oil well swivels, winch systems, and gear boxes. Fully interchangeable with industry standard offering.</p>
 <p>Keyless Locking Devices</p> <p>Mechanical bushings used to connect power transmission components onto rotating shafts. Without the use of keyways, KLDs eliminate the problems associated with backlash including fretting, corroding, and wallowing.</p>	 <p>Lubron® Bearings</p> <p>Lubron® self-lubricating bearings designed and custom manufactured in most any size, material and bearing configuration. Applications include hydro power and water control, nuclear power generation, infrastructure, architecture, offshore marine, industrial, machinery and heavy equipment.</p>	 <p>Shaft Collars</p> <p>Used to position or locate a component on a shaft. Made from mild steel, type 303 or 316 stainless steel, aluminum, or acetal. Available in inch and metric sizes.</p>
 <p>Self-Lubricating Bearings</p> <p>Radial, thrust, rod ends, spherical bearings, high temperature, high loads. Available in inch and metric sizes. Fiberglide® self-lubricating bearings.</p>	 <p>Rigid Couplings</p> <p>Shaft couplings serve as components to time, join, or align shafts at lower speeds and torque, especially when zero backlash is desired. Made from mild steel with a black oxide finish type 303 stainless steel, or aluminum. Available in inch and metric sizes.</p>	 <p>Specials</p> <p>RBC Bearings® manufactures many specialty bearings for the aerospace, oil and energy, semiconductor equipment, packaging, transportation, and other industries.</p>
 <p>Ball Bearings</p> <p>Precision ground, semiground, unground. High loads, long life, smooth operation. Nice® branded products are offered in caged and full complement configurations.</p>		 <p>PIC Design®</p> <p>Complete line of precision gears, precision hardware, timing belts, pulleys, and linear motion systems. Industries served include industrial, aerospace, defense, medical, robotics and automation, material handling, and assembly. Custom design support for unique applications.</p>

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