

FT Series

Product Description

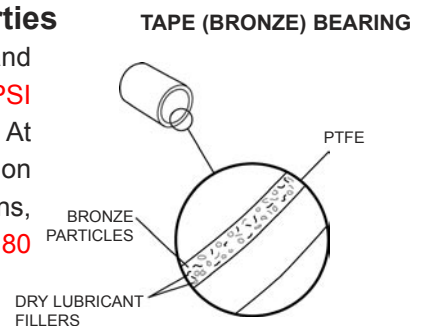
The Fiber-Lube™ FT bearing is used for applications where a slightly higher surface velocity, when compared to the Fiber-Lube™ FW Series, is required. Similar to the FW Series bearing, the FT bearing is manufactured by a filament winding process that results in a continuous fiberglass filament backing composition—ensuring excellent mechanical properties (especially fatigue resistance) are attained. The filament wound fiberglass structure uses a high strength, corrosion resistant epoxy resin as the matrix material. The high strength backing permits the use of a thin wall (1/16" to 1/8") bearing which can often reduce the size and weight of the finished bearing assembly.



These differences are driven from the fact that the FT bearing uses a filled PTFE resin structure as opposed to the continuous PTFE filaments used in the FW product. Two liner thicknesses are available with the 0.015" thick liner being standard and a 0.030" thick liner being available for unique applications. The 0.030" thick liner is designed for applications where boring the inner diameter might be required in order to achieve tighter tolerances in an effort to address sizing and minor misalignment conditions.

Mechanical & Physical Properties

The Fiber-Lube™ FT bearing can withstand static loads of approximately **60,000 PSI** and **3,000 PSI** under dynamic loading. At these loading levels, minimum distortion will occur. For dry running applications, the maximum speed is approximately **80 surface feet per minute**.



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This bearing's operating temperature range is $\pm 325^{\circ}\text{F}$. Maximum continuous operational surface temperature for the standard formulation is 325°F , depending upon load characteristics. The bearing has been heat stabilized at these temperatures, so that little dimensional change will occur in the bearing during operation. In a free state, the coefficient of expansion of the Fiber-Lube™ FT bearing is approximately 7×10^{-6} in/in/ $^{\circ}\text{F}$, similar to the coefficient of expansion for steel, and actually less than some metals.

Ultimate Compression Strength (PSI)	60,000
Unit Load Limit (PSI)	4,000
Temperature Range (Standard Formulation)	$\pm 325^{\circ}\text{F}$
Coefficient of Thermal Expansion (in/in/$^{\circ}\text{F}$)	7×10^{-6}
Thermal Conductivity (BTU • in/(hr • Ft² • $^{\circ}\text{F}$))	1.8-2.3
Water Absorption (2 hours)	0.12%
Water Absorption (24 hours)	0.16%
Specific Gravity	1.95
Maximum Velocity (SFM)	80

Fiber-Lube™ Bronze Tape Applications

Ideal applications include those that experience linear motion. Good examples of this type of application are rod-end bearings for both pneumatic and hydraulic cylinder assemblies. Unlike the FW bearing, the FT bearing can easily handle fabrication on the inner diameter of the bearing itself (there is no difference between products with respect to external outer diameter related fabrication). This ease of ID fabrication means seal grooves can be economically inserted. The result is a bearing that handles edge loading and exhibits excellent wear characteristics.

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