

Characteristics

Our Fibrex® bearing product offering brings to market an innovative blend of Teflon and glass fibers with design characteristics allowing for high resistance to chemicals and corrosion, resistance to fatigue under shock loads, and high-impact strength—all while eliminating the need for additional lubrication. This uniquely designed thin walled material features the strength and dimensional stability of a metallic body with the low-friction and tribological properties of a reinforced PTFE matrix.

In addition to these design characteristics, Fibrex® bearing products are comprised of materials that minimize Brinnelling, fretting, and other forms of wear along the contact area. With its inherent dampening properties, our Fibrex® material operates satisfactorily with a wide range of mating material and is capable of sustaining extremely high loads—well beyond the range of solid TFE or any other solid lubricating bearing. Radial bearing and thrust washer design options are available.

Our bearing products come in range of metal options:

| | | | | |
|----------------------|-----------------|-----------------|---------------|----------------------|
| 316 SS (standard) | Inconel® 625 | Inconel® 718 | Monel® 400 | Hastelloy® C or B |
|----------------------|-----------------|-----------------|---------------|----------------------|

Applications

Applications include valves, mixers, blenders, swivels, extruders, etc.

| Suggested Hardware and Bearing Tolerances | |
|--|------------------|
| Housing Bore Diameter | +0.002", -0.000" |
| Shaft Diameter | +0.000", -0.002" |
| Bearing Thickness | +/- .002" |
| Bearing Length | +0.000", -0.030" |
| Minimum Diametrical Clearance between shaft and bearing ID | .005" |
| Max bearing load | 50,000 PSI |
| Temperature | 350° F/177° C |
| Max Diameter | 8" |
| Max Length | 8" |
| Velocity Range | 0-50 FPM |



Benefits

- High-impact strength
- High-resistance to wear
- High load-carrying capacity at low speeds
- Dimensionally stable
- Custom sizes for your application
- No lubrication required
- Low coefficient of friction

