

Orkot® C417

HIGH LOAD ORKOT® BEARING MATERIAL



Orkot® C417 gives outstanding performance with less shaft eccentricity in high radial load applications.

Orkot® C417 was developed for higher load bearing hydropower applications. It achieves this through outstanding compression set characteristics, while still providing the excellent low friction capabilities of other Orkot® materials.

A composite material, Orkot® C417 uses high stiffness fibers in a thermoset resin system and incorporates a low friction bearing surface on the internal diameter. These stiff fibers allow for less shaft eccentricity under high radial load.

The material also has the advantage of being able to run dry, without lubrication, or in water.

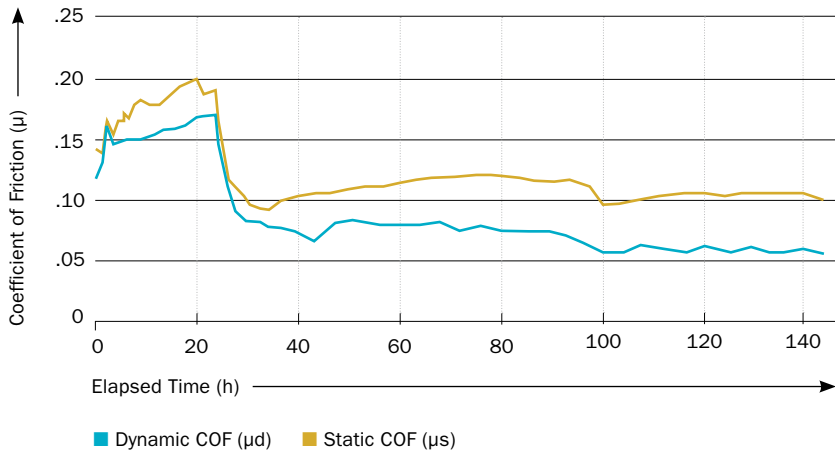
Application Examples:

- Turbine bearings
- Shut-off valves
- Penstock valves
- Runner blade bearings
- Wheel and slide gates
- Spillway gates
- Turbine bearings
- Hydro mechanical equipment

Features and Benefits:

- Excellent dimensional stability
- Freeze fitting capabilities
- Low friction and wear rates
- Virtually no water absorption
- Low deformation
- Allows for tighter clearances
- Higher load capabilities
- Environmentally-friendly

ORKOT® C417



Material Data:

Basic polymer: High stiffness fibers in a thermoset resin system

Color: Grey

Hardness: 90 Rockwell M

Coefficient of friction:

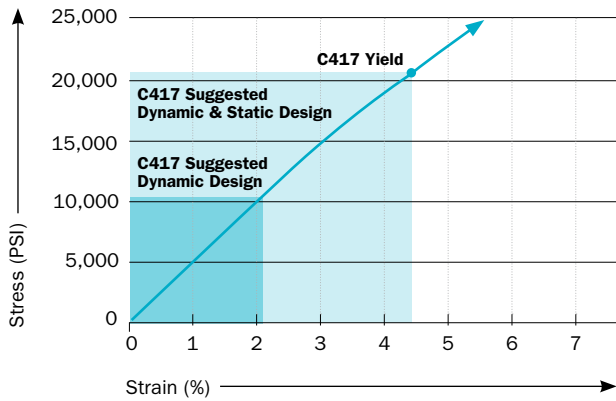
Average Static COF (μs) = 0.1064

Average Dynamic COF (μd) = 0.0665

*Time period as specified at USACE procedure.

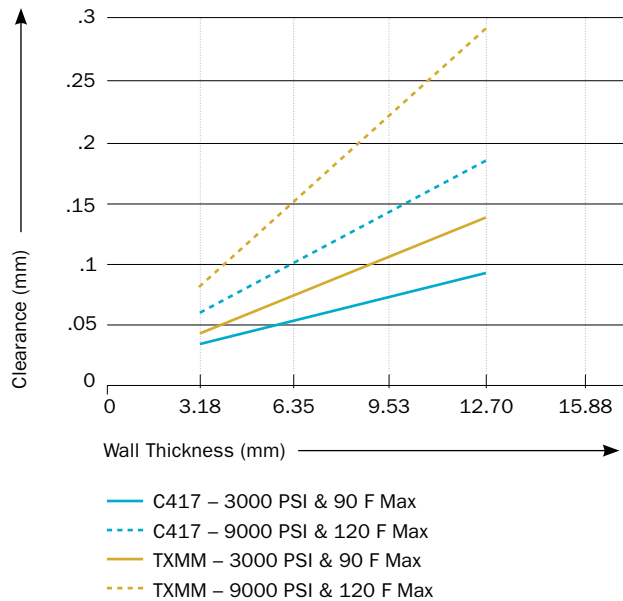
Compression Comparison

12 mm x 12 mm Button



Minimum Installation Clearance on ø114 mm Shaft

C417 vs TXMM



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