TU FRB Composite bearings

STRUCTURE

Sliding layer Contains PTFE filled liner and high-strength fibers encapsulated in as internally lubricating layer. Backing is made up of Continuous wound glass fiber encapsulated in a high temperature epoxy resin.

BEARING PROPERTIES	METRIC	IMPERIAL
Ultimate compressive strength σc	621 N/mm²	90 000 psi
Maximum static load Psta,max	250 N/mm²	36 000 psi
Maximum dynamic load Pdyn,max	140 N/mm²	20 000 psi
Maximum sliding speed U	0.13 m/s	25 fpm
Maximum pU factor	1.05 N/mm x m/s	30 000 psi x fpm
Maximum temperature Tmax	160 °C	320 °F
Minimum temperature Tmin	- 195 °C	- 320 °F

CHARACTERISTICS

– Excellent shock and misalignment resistance
– Excellent contamination resistance
– Very good friction and wear properties
– Good chemical resistance
– Medium to high load capacity

AVAILABILITY

STANDARD

– Plain cylindrical bushes Inner diameter range:
  Metric: 10 - 150 mm

NON-STANDARD

– Customized bushing designs
– Cylindrical bushes with nonstandard lengths and wall thickness, flanged bearings.

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