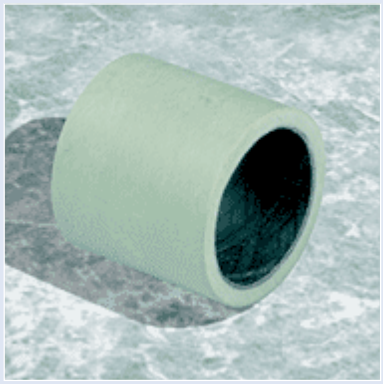
HSG™ Bearing Material

GGB BEARING TECHNOLOGY

an EnPro Industries company

HSG™ Bearing Material



Characteristics

- High static load capacity – twice as high as standard GAR-MAX®
- Excellent shock and misalignment resistance – better than standard GAR-MAX®
- Excellent contamination resistance
- Very good friction and wear properties
- Good chemical resistance

Applications

Industrial

Steering linkages, hydraulic cylinder pivots, king pin bearings, boom lifts, scissor lifts, cranes, hoists, lift gates, backhoes, trenchers, skid steer loaders, front end loaders, etc.

Composition & Structure

Composite Material

Sliding Layer

Continuous wound PTFE and high-strength fibres encapsulated in an internally lubricated, high temperature filled epoxy resin.

Backing

Continuous wound fiberglass encapsulated in a high temperature epoxy resin.

Operating Conditions

dry	very good
oiled	fair
greased	fair
water	fair
process fluid	fair

Availability

Ex Stock

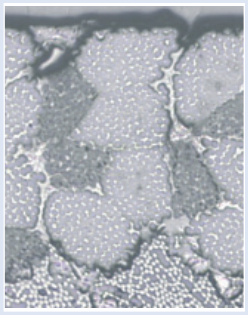
- N/A

To order

Please contact your local GGB representative for material recommendations.

- Cylindrical bearings: ID Range: 12 to 150 mm, metric series; .5 to 6 inch, inch series.
- Special order bearing diameters to 500 mm (20 inches); flanged bearings; hex and square bores; liner on OD

Microsection



Bearing Properties	Unit	Value
Dry		
Maximum sliding speed v	m/s	0.13
Maximum pv factor	MPa x m/s	1.05
Coefficient of friction f	–	0.05-0.3
Oil lubrication		
Maximum sliding speed v	m/s	-
Maximum pv factor	MPa x m/s	-
Coefficient of friction f	–	-
General		
Maximum temperature T_{max}	°C	+160
Minimum temperature T_{min}	°C	-195
Maximum load p static	MPa	415
Maximum load p dynamic	MPa	140
Shaft surface finish R_a *	µm	0.2-0.8
Shaft hardness - normal	HB	>350
Shaft hardness - for longer service life	HB	>480

* Alternative shaft hardnesses and shaft surface finish is possible, depending on the application. Please contact your local GGB representative.