HX™ Bearing Material

GGB BEARING TECHNOLOGY

an EnPro Industries company

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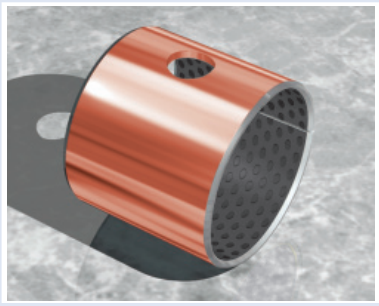
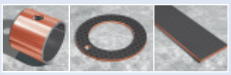




Characteristics

- Marginally lubricated bearing material with good wear resistance under thin film conditions
- For hydrodynamic applications also available with plain sliding layer
- Suitable for use with low viscosity fluids
- Suitable for use at temperatures up to 250 °C
- Bearing polymer lining has good chemical resistance

Applications

Automotive
Diesel fuel pumps, gear pumps, ABS equipment

Industrial
Hydraulic motors and pumps, agricultural equipment, wind energy equipment, yaw and teeter bearings

Composition & Structure

Metal-polymer composite material
Steel + porous bronze sinter + PEEK + PTFE + fillers

Operating Conditions

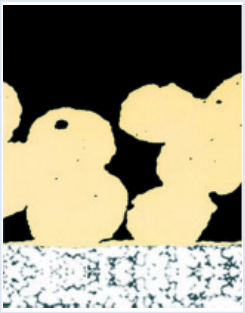
dry	fair
oiled	good
greased	very good
water	good
process fluid	good

Availability

Ex Stock
- N/A

To order
- Cylindrical bushes, thrust washers, strip and non-standard parts

Microsection



Bearing Properties	Unit	Value
Oil lubrication		
Maximum sliding speed v	m/s	10.0
Maximum pv factor	MPa x m/s	-
Coefficient of friction f	–	0.03-0.08
Grease lubrication		
Maximum sliding speed v	m/s	2.5
Maximum pv factor	MPa x m/s	2.8
Coefficient of friction f	–	0.08-0.12
General		
Maximum temperature T_{max}	°C	+250
Minimum temperature T_{min}	°C	-150
Maximum load p static	MPa	140
Maximum load p dynamic	MPa	100
Shaft surface finish R_a	µm	≤0.4
Shaft hardness - normal	HB	>200
Shaft hardness - for longer service life	HB	>350