

GGB-SZ

Bimetal Lead-Free Plain Bearings

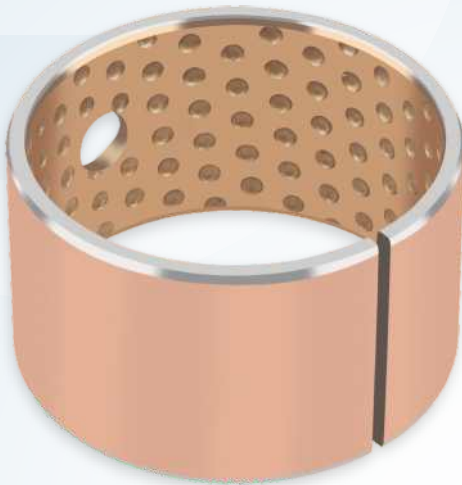


CHARACTERISTICS

- Bimetal bearing with steel backing and bronze overlay
- Lead-free bearing composition with indents as reservoir for the grease, also available without indents
- High load capacity, very good resistance to fatigue strength at high temperatures
- Suited to harsh operating conditions
- Particularly suitable for high specific loads with oscillating motion and low frequency
- Fine turned shafts suitable

AVAILABILITY

Bearing forms made to order: cylindrical bushes and sliding plates with non-standard dimensions, customized bearing designs



APPLICATIONS

Industrial: Agricultural machinery, earth-movers, textile machinery, king pin bushes, oil pump bearings, mechanical handling and lifting equipment, off highway equipment etc.



GGB-SZ Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
General					
Maximum load, p	Static	psi	44 000	N/mm ²	300
	Dynamic	psi	20 000	N/mm ²	140
Operating temperature	Min	°F	- 40	°C	- 40
	Max greased	°F	300	°C	150
	Max oil lubricated	°F	480	°C	250
Oil Lubricated					
Maximum sliding speed, U		fpm	500	m/s	2.5
Maximum pU factor		psi x fpm	80 000	N/mm ² x m/s	2.8
Coefficient of friction	Greased		0.05 - 0.12		0.05 - 0.12
	Oil		0.04 - 0.12		0.04 - 0.12
Recommendations					
Shaft surface roughness, Ra	Normal	µin	≤ 32	µm	≤ 0.8
Shaft surface hardness	Normal	HB	> 200	HB	> 200
	For longer service life	HB	> 350	HB	> 350

Operating Performance

Dry	Poor
Oil lubricated	Good
Grease lubricated	Very Good
Water lubricated	Poor
Process fluid lubricated	Poor

Microsection

