

AuGlide™

BIMETAL LEAD-FREE PLAIN BEARINGS



APPLICATIONS

Automotive – Transmissions, truck brake caliper, king pin

Industrial – Agricultural machinery, earth-movers, textile machinery, pneumatic equipment, mechanical handling and lifting equipment, hydraulic cylinders, off-highway equipment, and many more

CHARACTERISTICS

- Lead-free
- Machinable
- Design freedom – customizable to meet specific indentation and shape needs
- High loads and high temperature capabilities
- Excellent fatigue strength under dynamic and shock load conditions
- Excellent wear resistance
- Suitable for hydrodynamic operation
- Suitable for oil and grease lubrication
- Superior performance under oscillating movement
- Thin-wall construction permits compact bearing assembly
- Indents in the bearing surface provide a reservoir for grease and thus allow extended re-greasing intervals

AVAILABILITY

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



BEARING PROPERTIES		UNITS	VALUE
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GENERAL

Maximum load, p	Static	N/mm ²	300
	Dynamic	N/mm ²	140
Operating temperature	Min	°C	-40
	Max greased	°C	150
	Max oil lubricated	°C	250
Coefficient of friction, f	Greased		0.05 - 0.12
	Oil lubricated		0.04 - 0.12

OIL LUBRICATED

Maximum sliding speed, U	m/s	2.5
Maximum pU factor	N/mm ² x m/s	2.8

RECOMMENDATIONS

Shaft surface roughness, Ra	Normal	µm	≤ 0.8
Shaft surface hardness	Normal	HB	> 200
	For longer service life	HB	> 350

OPERATING PERFORMANCE

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

MICROSECTION

