



# 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
- Capable of supporting high specific loads and high temperatures
- 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		IMPERIAL UNITS	IMPERIAL VALUE	METRIC UNITS	METRIC VALUE
--------------------	--	----------------	----------------	--------------	--------------

GENERAL					
Maximum load, p	Static	psi	44 000	N/mm <sup>2</sup>	300
	Dynamic	psi	20 000	N/mm <sup>2</sup>	140
Operating temperature	Min	°F	-40	°C	-40
	Max greased	°F	300	°C	150
	Max oil lubricated	°F	480	°C	250
Coefficient of friction, f	Greased		0.05 - 0.12		0.05 - 0.12
	Oil lubricated		0.04 - 0.12		0.04 - 0.12

OIL LUBRICATED					
Maximum sliding speed, U		fpm	500	m/s	2.5
Maximum pU factor		psi x fpm	80 000	N/mm <sup>2</sup> x m/s	2.8

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**

