GGB-SO16

METAFRAM OIL IMPREGNATED SINTERED IRON BEARINGS

APPLICATIONS

Industrial – FHP motor bearings, domestic appliances and hand tools, heavy duty applications: construction equipment, railway equipment,military equipment

CHARACTERISTICS

- Maintenance-free bearing for general engineering applications
- Superior performance compared to GGB-FP20 METAFRAM under high loads and low speeds
- Produced by powder metallurgy process and therefore suitable for complex shapes

AVAILABILITY

Blanks are made to order

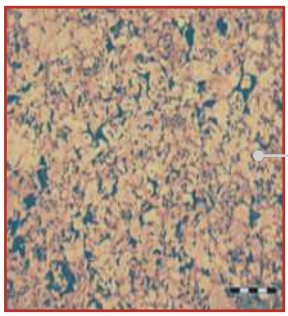
For questions and assistance, contact a GGB engineer at: **https://www.ggbearings.com/en/contact**

BEARING PROPERTIES		IMPERIAL UNITS	IMPERIAL VALUE	METRIC UNITS	METRIC VALUE
GENERAL					
Maximum load, p	Static	psi	17 400	N/mm^2	120
	Dynamic	psi	8 700	N/mm^2	60
Operating temperature	Min	°F	32	°C	0
	Max	°F	220	°C	105
Minimum density		lb/in^3	0.22	g/cm^3	6
Minimum apparent porosity		%	16	%	16
OIL IMPREGNATED					
Maximum sliding speed, U		fpm	59	m/s	0.3
Maximum pU factor		psi x fpm	25 700	N/mm^2 x m/s	0.9
Coefficient of friction, f			0.05 - 0.15 *		0.05 - 0.15 *
RECOMMENDATIONS					
Surface roughness, Ra		µin	≤ 8	µm	≤ 0.2 *
Surface hardness		HB	> 355	HB	> 355

* Bearing properties depending on oil and solid lubricants. This information is available by downloading the GGB-SO16 datasheet or brochure.

OPERATING PERFORMANCE	
Dry	Not applicable
Oil lubricated	Good (oil impregnated)
Grease lubricated	Not recommended
Water lubricated	Not recommended
Process fluid lubricated	Not recommended

MICROSECTION



20%	Cu
0.3–0.6%	C
<2%	Other
Rest	Fe