

GGB-SO16

METAFRAM Oil Impregnated Sintered Iron Bearings



CHARACTERISTICS

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

AVAILABILITY

Blanks are made to order



APPLICATIONS

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



GGB-SO16 Technical Data

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 Lubricated					
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			0.05 - 0.15*		0.05 - 0.15*
Recommendations					
Shaft surface roughness, Ra		µin	≤ 8*	µm	≤ 0.2*
Shaft surface hardness		HV	> 355	HV	> 355

* Bearing properties depending on oil and solid lubricants

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% Cg,
other <2%
Rest Fe