

GGB-FP20

METAFRAM OIL IMPREGNATED SINTERED IRON BEARINGS



APPLICATIONS

Industrial – FHP motor bearings, domestic appliances and hand tools

CHARACTERISTICS

- Similar to SINT A 10, impregnation group 1
- Maintenance-free bearing for general engineering applications
- Optimum performance under relatively light loads and high speeds
- Produced by powder metallurgy process and therefore suitable for complex shapes

AVAILABILITY

Bearing forms made to order: Cylindrical bushes, flanged bushes and customized bearing designs



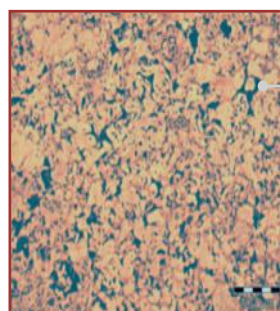
BEARING PROPERTIES		UNITS	VALUE
GENERAL			
Maximum load, p	Static	N/mm ²	45
	Dynamic	N/mm ²	8.0 - 22.5
Operating temperature	Min	°C	- 180 / - 5 *
	Max	°C	90 / 300 *
Minimum density		g/cm ³	5.6
Minimum apparent porosity		%	20
OIL IMPREGNATED			
Maximum sliding speed, U		m/s	0.1 - 4.0 *
Maximum pU factor		N/mm ² x m/s	0.1 - 1.8 *
Coefficient of friction, f			0.05 - 0.25 *
RECOMMENDATIONS			
Shaft surface roughness, Ra		µm	≤ 0.2 - ≤ 0.3 *
Shaft surface hardness		HB	> 240 - > 355 *

* Bearing properties depending on oil or solid lubricants. This information is available by downloading the GGB-FP20 datasheet or brochure.

OPERATING PERFORMANCE

Dry	Good (PTFE/MoS ₂)
Oil lubricated	Good (oil impregnated)
Grease lubricated	Not recommended
Water lubricated	Not recommended
Process fluid lubricated	Not recommended

MICROSECTION



1 - 4% Cu
 < 0.25% C
 < 2% Other
 Rest Fe
 Impregnation group 1
 (up to 80°C)