

GGB-BP25

METAFRAM Oil Impregnated Sintered Bronze Bearings





CHARACTERISTICS

- Similar to SINT A 50, 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 available in standard dimensions

-  Plain cylindrical bushes
-  Plain flanged bushes

Bearing forms made to order: cylindrical bushes and flanged bushes with non-standard dimensions, spherical bearings, tubes and rod blanks, customized bearing designs



APPLICATIONS

Industrial: FHP motor bearings, domestic appliances and hand tools



GGB-BP25 Technical Data

Bearing Properties		Imperial Units	Imperial Value	Metric Units	Metric Value
General					
Maximum load, p	Static	psi	2 900	N/mm ²	20
	Dynamic	psi	1 400	N/mm ²	10
Operating temperature	Min	°F	- 290 / 30*	°C	- 180 / 0*
	Max	°F	190 / 570*	°C	90 / 300*
Minimum density		lb/in ³	0.22	g/cm ³	6.2
Minimum apparent porosity	%		23		23
Oil Impregnated					
Maximum sliding speed, U		fpm	20 - 1 100*	m/s	0.1 - 6.0*
Maximum pU factor		psi x fpm	2 800 - 51 400*	N/mm ² x m/s	0.1 - 1.8*
Coefficient of friction			0.05 - 0.25*		0.05 - 0.25*
Recommendations					
Shaft surface roughness, Ra	Normal	µin	≤ 12 - ≤ 24*	µm	≤ 0.3 - ≤ 0.6*
Shaft surface hardness	For longer service	HB	> 240 - > 355*	HB	> 240 - > 355*

* Bearing properties depending on oil or solid lubricants

Operating Performance	
Dry	Good (PTFE/MoS ₂)
Oil lubricated	Good
Grease lubricated	Fair
Water lubricated	Not recommended
Process fluid lubricated	Not recommended

Microsection



BP25 with composition:
Sn 8 – 10.5 %
Other < 2 %
Cu Rest
Impregnation group 1 (up to 80°C)