

# GGB-DB<sup>®</sup>

#### CAST BRONZE BUSHINGS WITH SOLID LUBRICANT INSERTS



# **APPLICATIONS**

**Industrial** – Offshore industry, underwater equipment, bridges and civil engineering, iron and steel industry equipment, cranes and conveyors, deep and open cast mining equipment, construction and earthmoving equipment, etc.

# **CHARACTERISTICS**

- Maintenance-free bearing material for heavy duty applications
- Excellent performance under high loads and intermittent operation
- Aavailable with PTFE or graphite inserts for temperatures above 250°C

# AVAILABILITY

**Bearing forms made to order:** Cylindrical bushes, flanged bushes, thrust washers, sliding plates, pintle bearings, half-bearings, axial and radial segment rings, self-aligning spherical bearings, customized bearing designs



#### GGB-DB<sup>®</sup> DATASHEET

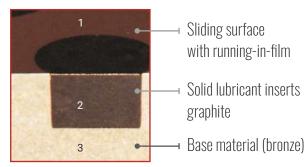


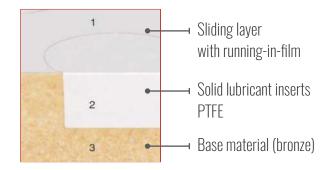
BEARING PROPERTIES		UNITS	VALUE DB®B/11	VALUE DB®B/16	VALUE DB®C/11	VALUE DB®C/16	VALUE DB®D/11	VALUE DB®D/16
MECHANICALPROPERTIES								
Minimum Yield Strength		N/mm <sup>2</sup>	97	97	275	275	414	414
MinimumTensile Strength		N/mm <sup>2</sup>	207	207	620	620	758	758
Hardness		НВ	75	75	190	190	210	210
Elongation (% in 50 mm)		%	15	15	6	6	12	12
TRIBOLOGICAL PROPERTIES								
Maximum Static Load Capacity		N/mm <sup>2</sup>	140	140	350	350	400	400
Maximum Dynamic Load Capacity		N/mm <sup>2</sup>	70	70	200	200	250	250
Maximum sliding speed, U		m/s	0.5	0.5	0.5	0.5	0.5	0.5
Maximum pU factor		N/mm <sup>2</sup> x m/s	1.0	1.0	1.0	1.0	1.5	1.5
Operating temperature	min	°C	-50	-50	-50	-50	-50	-50
Coefficient of friction, f (dry)	max	°C	250 0.05 - 0.18	180 0.05 - 0.18	320 0.05 - 0.18	180 0.05 - 0.18	350 0.05 - 0.18	180 0.05 - 0.18

RECOMMENDATION TO ASSEMBLY AND T	TOLERANCES	TOLERANCES	ROUGHNESS (µm)	
Ø Housing		Н7	3.2	
Ø OD Bearing		s6	3.2	
Ø ID Bearing	before assembly	E8	1.2	
	after assembly	H10	1.2	
Ø Shaft		d8	0.2 - 0.8	
Concentricity Inner/Outer Bearing		IT9		

For bearing bores > 200mm, tolerances should be calculated by our application engineering team based on the parameters of each application. Your specific application may require special fitting instructions.

#### **MICROSECTION**





For additional product offerings visit: https://www.ggbearings.com/en/our-products/metal-and-bimetal-bearings/ggb-db