



# 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
- Also available with 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



BEARING PROPERTIES		IMPERIAL UNITS	IMPERIAL VALUE	METRIC UNITS	METRIC VALUE
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GENERAL					
Maximum load, p	Static	psi	29 000	N/mm <sup>2</sup>	200
	Dynamic	psi	15 000	N/mm <sup>2</sup>	100
Operating temperature	Min	°F	-60	°C	-50
	Max	°F	660	°C	350

DRY					
Maximum sliding speed, U		fpm	100	m/s	0.5
Maximum pU factor		psi x fpm	43 000	N/mm <sup>2</sup> x m/s	1.5
Coefficient of friction, f			0.05 - 0.18		0.05 - 0.18

RECOMMENDATIONS					
Shaft surface roughness, Ra		µin	8 - 32	µm	0.2 - 0.8
Shaft surface hardness		HB	> 200	HB	> 200

OPERATING PERFORMANCE	
Dry	Good
Oil lubricated	Good
Grease lubricated	Good
Water lubricated	Good
Process fluid lubricated	Fair

**MICROSECTION**

