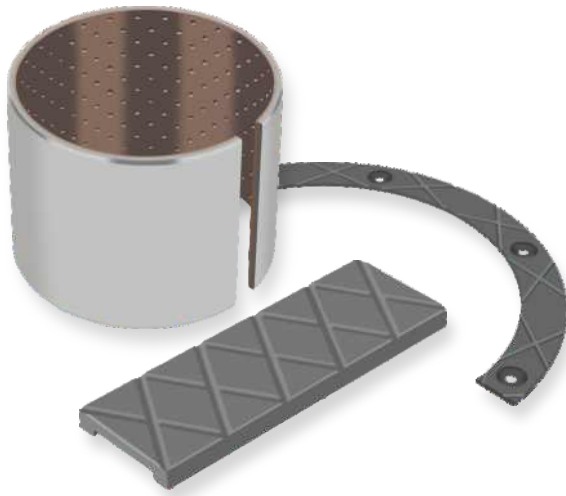




# GGB-CBM<sup>®</sup>

**THIN WALLED BIMETAL BEARINGS  
MADE BY METALLURGIC POWDER**



## APPLICATIONS

**Industrial** – General mechanical engineering, applications at high loads, iron foundry, steel and aluminum industry, furnaces, blower, steel works, food and beverage industry, packaging equipment, agriculture and construction machines, handling equipment, tire molds, etc.

## CHARACTERISTICS

- Self-lubricating and maintenance-free bearings with homogeneously distributed solid lubricant (graphite) in the sliding layer
- High load capacity and suited to temperatures from -150°C up to 280°C
- Different metallic backings are available: stainless steel, carbon steel or bronze
- Lead-free alloys are available

## AVAILABILITY

**Bearing forms made to order:** Cylindrical bearings, flanged bearings, axial washers, sliding plates, half shells, axial and radial segment rings, spherical plain bearings, customized bearing forms



BEARING PROPERTIES		IMPERIAL UNITS	IMPERIAL VALUE	METRIC UNITS	METRIC VALUE
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**GENERAL**

Maximum load, p	Static	psi	38 000 - 41 000	N/mm <sup>2</sup>	260 - 280
	Dynamic	psi	12 000 - 22 000	N/mm <sup>2</sup>	80 - 150
Operating temperature	Min	°F	- 240	°C	- 150
	Max	°F	540	°C	280
Coefficient of linear thermal expansion		10 <sup>-6</sup> /F	7 - 9	10 <sup>-6</sup> /K	12 - 16

**DRY**

Maximum sliding speed, U		fpm	60 - 100	m/s	0.3 - 0.5
Maximum pU factor		psi x fpm	14 000 - 29 000	N/mm <sup>2</sup> x m/s	0.5 - 1.0
Coefficient of friction, f			0.10 - 0.20		0.10 - 0.20

**WATER LUBRICATED**

Coefficient of friction, f			0.10 - 0.15		0.10 - 0.15
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**RECOMMENDATIONS**

Shaft surface roughness, Ra		µin	8 - 32	µm	0.2 - 0.8
Shaft surface hardness		HB	> 180 - > 250	HB	> 180 - > 250

\* Bearing properties and recommendations depending on GGB-CBM® material grade. This information is available by downloading the GGB-CBM® brochure.

OPERATING PERFORMANCE	
Dry	Good
Oil lubricated	Good
Grease lubricated	Good
Water lubricated	Good
Process fluid lubricated	Depending on Fluid

**MICROSECTION**

