GGT Gleitlager AG
Meierskappelstrasse 3
CH-6403 Küssnacht am Rigi

+41 41 854 15 30
info@gleitlager.ch
www.gleitlager.ch

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Bimetal Wrapped Bearings

Features

Steel shell backed with a lead bronze lining bearing material for oil lubricated applications. This material has high load capacity and good fatigue properties. It is widely used in automotive applications such as compressors, steering gear, power steering, pedal bearings, king-pin bushes, tailgate pivots, mechanical handling and lifting equipment, hydraulic motors, agricultural machinery etc.

Structure
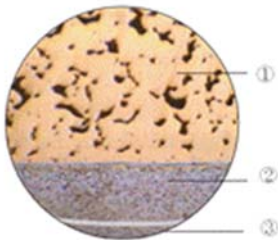
1. **Sinter bronze powder:** good wear resistance and excellent load carrying capacity.

2. **Steel backing:** provides exceptionally high load carrying capacity, excellent heat dissipation.

3. **Copper plating** thickness 0.002mm provides good corrosion resistance.

Chemical Composition

Material	Alloy Composition	International Standard	Alloy Hardness
GGT800	CuPb10Sn10	JIS-LBC3/SAE-797	HB 70 – 100
GGT720	CuPb24Sn4	JIS-LBC6/SAE-799	HB 45 – 70
GGT700	CuPb30	JIS-KJ3/SAE-48	HB 30 – 45
GGTJ20	AlSn20Cu	JIS-AJL/SAE-783	HB 30 – 40

Technical Data GGT800

Max. load	Static	250 N/mm^2	Alloy hardness	HB 70 – 100
	Dynamic	140 N/mm^2	Temp.	-40 until +250 °C
Max. Speed (lubricated with oil)		2 m/s	Friction coefficient	0.05 – 0.20
Max. PV		2.8 N/mm^2 *m/s	Thermal conductivity	60 W(m*k)$^{-1}$
Breaking Load		350 N/mm^2	Coef. of thermal expansion	14 *10^{-6}/K

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