

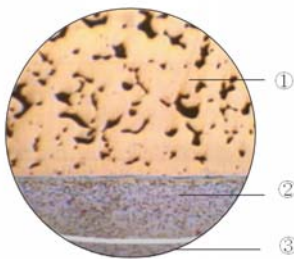
GGT800 Bimetall Wrapped Bearings



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
GGT-800	CuPb10Sn10	JIS-LBC3/SAE-797	HB70-100
GGT-720	CuPb24Sn4	JIS-LBC6/SAE-799	HB45-70
GGT-700	CuPb30	JIS-KJ3/SAE-48	HB30-45
GGT-J20	AlSn20Cu	JIS-AJL/SAE-783	HB30-40

GGT800 Tech. Data

Max. load	Static	250 N/mm ²	Alloy hardness	HB 70 – 100
	Dynamic	140 N/mm ²		Temp.
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 ⁻¹