

CSB850BM Metal Backed Bronze Powder with Solid Lubricants

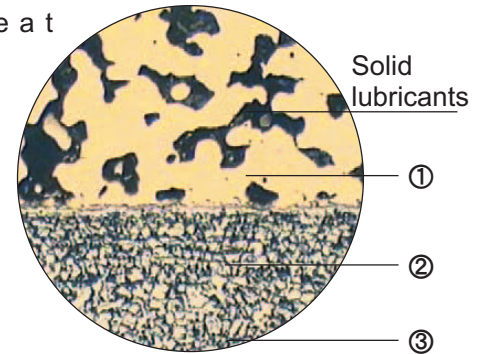


Structure

1. Sinter bronze powder with PTFE + graphite: good wear resistance with lower friction and excellent load carrying capacity. The material could be machined after fitting to get precision tolerance. CSB also can supply the bearings with PTFE or graphite sprayed layer on the work surface to get much lower start friction.

2. Metal backing: provides exceptionally high load carrying capacity and excellent heat dissipation.

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



Features

CSB850BM comprises a metal shell backed with sintered copper alloy which is uniformly dispersed with graphite and PTFE solid lubricants. The machined layer can not be exceeding the sintered layer thickness.

1. Suitable for hostile environments and high loads and where lubrication is difficult.
2. Suitable for rotary, oscillating and linear movements.
3. Suitable for micro-range movements.
4. No electrostatic charging.
5. Has low coefficient of friction without stick-slip effects.
6. Maintenance free operation.

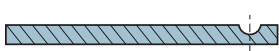
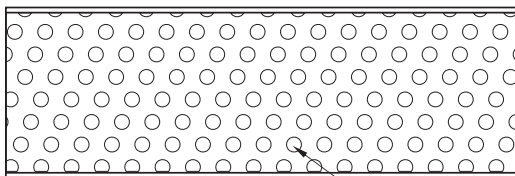
CSB850BM Metal Backed Bronze Powder with Solid Lubricants

Tech. Data

CSB standard material		CSB850BM1	CSB850BM2	CSB850BM3	CSB850BM4
Backing metal		Steel	Steel	Stainless steel	Bronze
Lining layer	Composition	CuSn12+SL	CuSn10Pb10+SL	CuSn12+SL	CuSn12+SL
	Solid lubricants	6%	6%	6%	6%
	Hardness	> 40HB	> 40HB	> 40HB	> 40HB
	Compression deformation 150Mpa	< 0.005mm	< 0.005mm	< 0.005mm	< 0.005mm
Max. load	Static	150N/mm ²	120N/mm ²	150N/mm ²	150N/mm ²
	Dynamic	100N/mm ²	80N/mm ²	100N/mm ²	100N/mm ²
Max. speed		0.5m/s	0.5m/s	0.5m/s	0.5m/s
Max. PV		1.5	1.5	1.5	1.5
Friction coefficient		0.05~0.2	0.03~0.2	0.05~0.2	0.05~0.2
Temp. °C		-195~+280	-195~+280	-195~+280	-195~+280

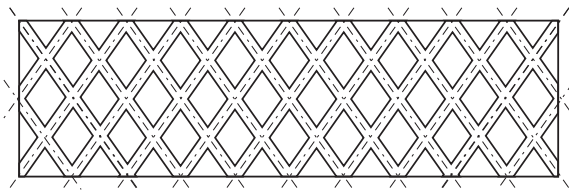
Bearing Surface

The standard bearings we supply are usually with plain surface, also we can supply the products with cleaning grooves for small angular movements or in the presence of abrasive media or dirt, and indented surface for grease lubricated applications.



Lubrication pocket

Indented surface for grease lubricated applications.



Cleaning grooves for small angular movements or in the presence of abrasive media or dirt.

Typical Applications

CSB850BM has been widely used in water turbines, vane controls, injection moulding machinery, packing machines, construction equipment, tire moulds, paper production machinery, furnace expansion plates, automotive transmission, heavy lifting chain linkage, food production equipment etc.

