

CSB-50DH Steel Backed Bronze Layer with PTFE/Fibre

Order

RoHS



Features

Compared to CSB-50, the CSB-50DH material is designed with a thicker PTFE layer to allow for more accurate sizing. Fitting and establishing clearances. This material type also allows for greater attention to controlling application torque and fit requirements.

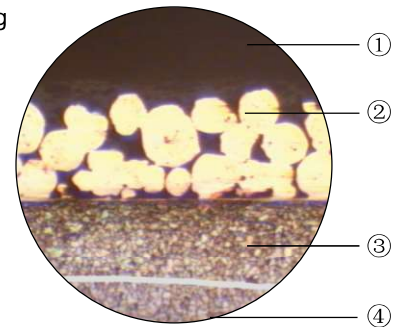
Structure

1. PTFE/Fibre mixture thickness 0.03-0.08mm. The PTFE layer is the contact surface for the rotating shaft. Minute particles of the PTFE layer and the sintered bronze material combine to create a solid lubricant film, which coats the shaft.

2. Sintered bronze layer thickness 0.20-0.35mm. A special composition of powdered copper is thermally fused to the steel backing. This contact layer acts as an anchor for the PTFE layer and conducts the thermal build up away from the bearing surfaces.

3. Low-carbon steel backing. Setting the foundation of the bushings, the steel back provides exceptional stability, load carrying and heat dissipation characteristics.

4. Plating, provides good corrosion resistance.



Tech. Data

Max. load	Static	250N/mm ²	Friction coefficient	0.05~0.20		
	Very low speed	140N/mm ²		Max. speed	Dry running	2m/s
	Rotating oscillating	60N/mm ²			Hydrodynamic operation	>2m/s
Max. PV dry running	Short-term operation	3.6N/mm ² *m/s	Thermal conductivity		42 W(m*K) ⁻¹	
	Continuous operation	1.8N/mm ² *m/s	Coefficient of thermal expansion		11*10 ⁻⁶ *K ⁻¹	
Temp. limit		-195°C~+280°C				

Typical Applications

The application of this material is similar with of normal CSB-50 material, but it is an optimized material for the application of automotive industry like door hinges, trunk hinges, bonnet hinges, dampers and seats etc.

Available

- Cylindrical Bushes
- Flanged Bushes
- Thrust Washers
- Non-standard parts as design

CSB-50DH is available against customer order, the tolerance is according to CSB-50 standard dimension.