

# CSB-50MP Steel Backing Bronze with PTFE/Fluoropolymer Order RoHS

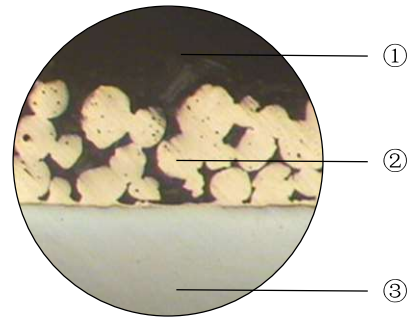


## Structure

1. **PTFE/Fluoropolymer thickness 0.05~0.10mm** , dry bearing performance supply with machinable solution to get tight tolerance.
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.** Setting the foundation of the bushings, the steel back provides exceptional stability, load carrying and heat dissipation characteristics.

## Features

This material can be machined after fitting to improve the required higher tolerances of specific applications. The PTFE layer remains intact after machining. CSB-50MP is also a high temperature resistive bushing operating up to 280 °C.



## Tech. Data

Max. load	Static	250N/mm <sup>2</sup>	Friction coefficient	0.03~0.20		
	Very low speed	140N/mm <sup>2</sup>		Max. speed	Dry running	2m/s
	Rotating oscillating	60N/mm <sup>2</sup>			Hydrodynamic operation	>2m/s
Max. PV dry running	Short-term operation	3.6N/mm <sup>2</sup> *m/s	Thermal conductivity		42 W(m*K) <sup>-1</sup>	
	Continuous operation	1.8N/mm <sup>2</sup> *m/s	Coefficient of thermal expansion		11*10 <sup>-6</sup> *K <sup>-1</sup>	
Temp. limit		-195 °C~+280 °C				

## Typical Applications

Having a thicker machinable PTFE Layer, this bearing material can be applied to : Belt Tensioners, Idler pulleys, valves, compressors, pumps and other precision machinery.