CSB-22 Steel Backed Sintered Bronze Layer with PVDF/PTFE

Order

Features

The special resin has excellent wear resistance and low friction. Oil/grease pockets are available for the bushing design. The resin surface could be machined again after assembly in order to obtain higher tolerance requirement.

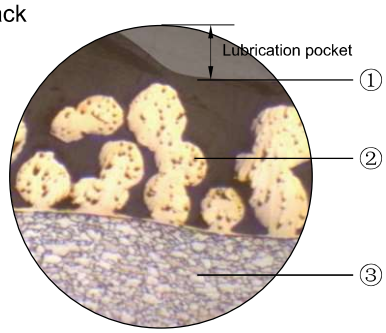
Comparing with POM, the application range of PVDF material better.

Structure

1.PVDF/PTFE 0.30~0.50mm. It has high wear resistance and low friction even only minute of lubricant are supplied. The bearing surface carries a pattern of circular indents which will be filled with grease on assembly of the bearing.

2.Sintered bronze layer 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.



Tech. Data

Max. Load	Static	250N/mm^2	Temp. limit		-50°C~+160°C
	Very low speed	140N/mm^2	Max. speed	Pre-lubricated	2m/s
	Rotating oscillating	70N/mm^2		Oiling Grease continuous	>3m/s
Max. PV		3.6N/mm^2*m/s	Thermal conductivity		50W(m*K)$^{-1}$
Coefficient of thermal expansion		11*10^{-6}*K^{-1}	Friction coefficient		0.03~0.20
Initial pre-lubrication at assembly required...					

Typical Application

The recommended application conditions are the high load, high temperature and high polluted environment with grease or oil lubrication. It has excellent wear resistance. This material is widely used in the kingpin bushing, piston pump, agricultural machinery. It is especially well-suited for applications where lubricant can not be supplied continuously or repeatedly.