

SB-2000 Metal Backed Bronze Powder with Graphite

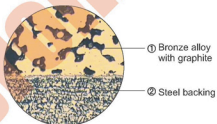


Features

Pertinence for motions of any direction due to solid lubricant dispersed evenly, with high performance even for micro-range motions. It is suitable for self-lubrication work condition, to aid lower start friction, we recommend pre-lubricated if possible, oiling would be drastically reduced. It has very good load capacity, good wear resistance and lower friction. The bearing can be machined again after the parts fixed to get tighter tolerance.

Structure

SB-2000 is a composite multi-layer bearing composed of a special sintered material which forms the sliding surface and steel material forms the backing. Sintered layers are of a special copper-nickel alloy containing uniformly dispersed solid lubricant, the main component of which is graphite. The solid lubricants will be released at the bearing surface as wear occurs. This ensures a lower coefficient of friction during operation. In addition, these sintered layers are oil impregnated. Applications covered are automotive die wear plates, industrial robots, plastic injection moulding machine wear plates and tie-bar bearings, construction machines etc. SB-2000 is very similar to OILESS 2000 material in Japan.



Tech. Data				
Max. load	Static	100N/mm ²	Temp.	-40℃~+120℃
	Dynamic	50N/mm ²	Friction coefficient	0.03~0.20
Max. speed	Dry	0.5m/s	Alloy hardness	>45HB
	Lubrication	> 1m/s	Coefficient of thermal expansion	14*10 ⁻⁶ /K ¹
Max. PV	Dry	1.5N/mm ² *m/s	Oil volume	>10%
	Lubrication	2.5N/mm ² *m/s		

Typical Applications

This material has been widely used in high load with lower friction and good wear resistance requested mechanical parts where oil given is difficult such as

automotive die wear plate, industrial robots, injection wear plate, injection tie-bar bushes, construction machines self-lubricating bearings etc.