

CSB-090(FB090) Bronze wrapped bearings

Dimensions of Standard Products See P83~86



Structure

The bearings are wrapped of a cold formable homogenous bronze (CuSn8), which will obtain exceptional material properties. The standard size are fitted with diamond shaped lubrication indents on the bearing surface. These indents serve as lubricant reservoirs to rapidly build up a lubrication film in the start movement and therewith reduce the start friction. The material suitable for constructions, agriculture etc where high load and slow movement are occurring.

Chemical compositions

Material type	Cu%	Sn%	P%	Pb%	Zn%
CSB-090	91.3	8.5	0.2	/	/

Tech. Data

Max. Load	Static	120N/mm ²	Hardness	HB 110-150
	Dynamic	40N/mm ²		Elongation
Max. Speed	2m/s		Temp.	-100℃ ~+200℃
Max. PV	2.8N/mm ² *m/s		Friction coefficient	0.08~0.25
Tensile strength	450N/mm ²		Thermal conductivity	60W(m*k) ⁻¹
Yield point	250N/mm ²		Coef. of thermal expansion	15*10 ⁻⁶ k ⁻¹

Feature

1. Easy of fitting and lubrication
 2. High load capacity
 3. Possibility of producing items, inner side can be machined
 4. High level thermal conductivity
 5. Minimum overall dimensions
 6. Chemical resistance
- Initial pre-lubrication at assembly required...

Typical Application

This type of bushing is widely applied in hoisting machines and other construction machines, automobiles, tractors, trucks, machines tools and some mineral engines. It can be fabricated into bushes, half bearings, flanged bushes, trust washers, spherical bearing so on.