

## SB-090 Bronze Wrapped Bush



### Structure

The bearings are wrapped from a cold formed homogenous bronze (CuSn8) with exceptional material properties. The standard sizes are fitted with diamond shaped lubrication indents in the bearing surface. These indents serve as lubricant reservoirs to rapidly build up a lubrication film at the start of movement and thereafter reduce the running friction. The material is suitable for construction and agricultural machinery applications.

### Chemical Compositions

Material type	Cu%	Sn%	P%	Pb%	Zn%
CuSn8	91.3	8.5	0.2	/	/

### Tech. Data

Max. load	Static	120N/mm <sup>2</sup>	Elongation	40%
	Dynamic	40N/mm <sup>2</sup>		Temp.
Max. speed (Lubrication)	2m/s		Friction coefficient	0.08~0.25
Max. PV	2.8N/mm <sup>2</sup> *m/s		Thermal conductivity	58W/(m*k) <sup>1</sup>
Tensile strength	450N/mm <sup>2</sup>		Coef. of thermal expansion	18.5*10 <sup>-6</sup> *K <sup>-1</sup>
Hardness	HB 110-150			

### Bushes tolerance

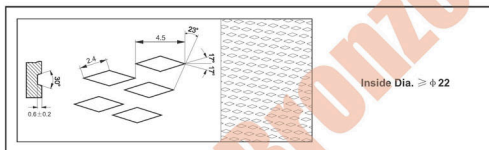
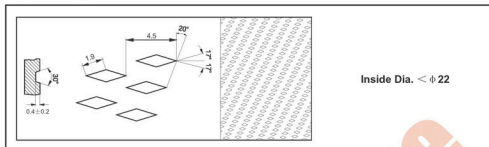
Unit:mm

I.D.	10 < d ≤ 18	18 < d ≤ 30	30 < d ≤ 50	50 < d ≤ 80	80 < d ≤ 120	120 < d ≤ 180	180 < d ≤ 250	250 < d ≤ 300
O.D. tolerance	+0.065 +0.030	+0.075 +0.035	+0.085 +0.045	+0.100 +0.055	+0.120 +0.070	+0.170 +0.100	+0.210 +0.130	+0.260 +0.170
Installed I.D.H9	+0.043 0	+0.052 0	+0.062 0	+0.074 0	+0.087 0	+0.100 0	+0.115 0	+0.130 0

Housing: H7, Shaft: d7

## SB-090 Bronze Wrapped Bushing

### Oil pocket type



### Feature

1. Easy for fitting and lubricating
  2. High load capacity
  3. Inner Diameter machineable parts are available against order
  4. High level thermal conductivity
  5. Minimum overall dimensions
  6. Chemical resistance.
- Initial pre-lubrication at assembly required...

### Typical Applications

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 and so on.