

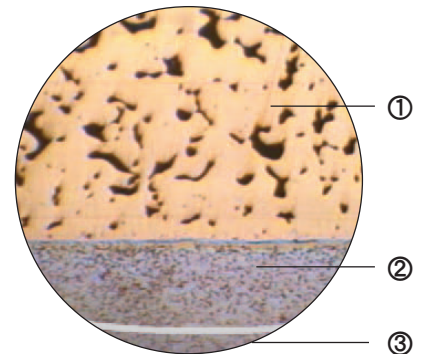


## Structure

- 1. Sinter bronze powder:** good wear resistance and excellent load carrying capacity.
- 2. Steel backing:** provides exceptionally high load carrying capacity, excellent heat dissipation.
- 3. Copper plating thickness 0.002mm** provides good corrosion resistance.

## Features

Steel shell backed with a lead bronze lining bearing material for oil lubricated applications. This material has high load capacity and good fatigue properties. It is widely used in automotive applications such as compressors, steering gear, power steering, pedal bearings, king-pin bushes, tailgate pivots, mechanical handling and lifting equipment, hydraulic motors, agricultural machinery etc.



## Chemical Compositions

Material	Alloy composition	International standard	Alloy hardness
Bimetal Bushing-800	CuPb10Sn10	JIS-LBC3/SAE-797	HB70-100
Bimetal Bushing-720	CuPb24Sn4	JIS-LBC6/SAE-799	HB45-70
Bimetal Bushing-700	CuPb30	JIS-KJ3/SAE-48	HB30-45
Bimetal Busjing-J20	AlSn20Cu	JIS-AJL/SAE-783	HB30-40

## BIMETAL BEARINGS-800 Tech. Data

Max. load	Static	250N/mm <sup>2</sup>	Alloy hardness	HB 70~100
	Dynamic	140N/mm <sup>2</sup>	Temp.	-40℃~+250℃
Max. speed (Lubricated)		2m/s	Friction coefficient	0.05~0.20
Max. PV		2.8N/mm <sup>2</sup> *m/s	Thermal conductivity	60W(m*k) <sup>-1</sup>
Breaking Load		350N/mm <sup>2</sup>	Coef. of thermal expansion	14*10 <sup>-6</sup> *K <sup>-1</sup>