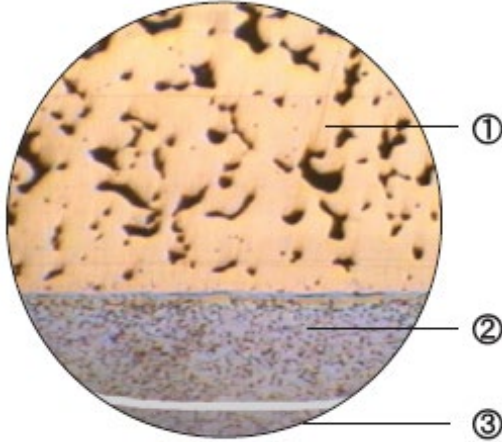


MATERIAL

AST-800 Bimetal wrapped Bearings



Structure

1. The sintered bronze powder provides good wear resistance and excellent load carrying capacity.
2. The steel backing, provides exceptionally high load carrying capacity and excellent heat dissipation.
3. The 0.002 mm thick Copper plating provides good corrosion resistance.

Features

This steel shell backed bearing features a lead bronze lining 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 systems, pedal bearings, king-pin bushes, tailgate pivots, and more.

Chemical Compositions

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

Technical Data

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