

B30

BIMETAL BEARING WITH STEEL BACKING AND LEADED BRONZE OVERLAY



Characteristics

- Particularly suitable for high specific loads with oscillating motion and low frequency
- Applicable in rough operation conditions
- High load capacity, very good resistance to fatigue strength at higher temperatures

Applications

- Hydraulic cylinders
- Agricultural machines
- Pneumatic machines
- Tail lifts
- Fluid motors
- etc.

Availability

- Bearing forms available in standard dimensions:
Inside diameter/Thickness: 20 - 100 / 1,5 - 2,5 mm.
- Bearing forms made to order: cylindrical bushes and thrust washers with non-standard dimensions, sliding plates, customized bearing designs

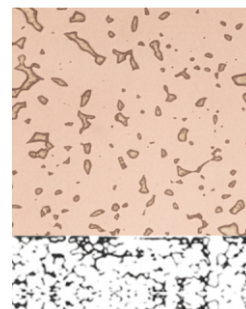
BEARING PROPERTIES

		Unit	Value
Maximum load, p	Static	N/mm ²	250 N/mm ²
	Dynamic	N/mm ²	140 N/mm ²
Operating temperature	Min	°C	- 40
	Max greased	°C	150
	Max oil lubricated	°C	250
Coefficient of friction	Greased		0,05 - 0,12
	Oiled		0,04 - 0,12
Maximum sliding speed, U		m/s	2,5
Maximum pU factor		N/mm ² *m/s	2,8
Surface roughness, Ra		µm	≤ 0,8
Surface hardness	Normal	HB	> 200
	For longer service life	HB	> 350

OPERATING PERFORMANCE

Dry	Poor
Oil lubricated	Good
Grease lubricated	Very Good
Water lubricated	Poor
Process fluid lubricated	Poor

MATERIAL COMPOSITION



Sliding layer with lubrication indents

CuPb10Sn10

Cu 80 %
Pb 10 %
Sn 10 %

Steel backing