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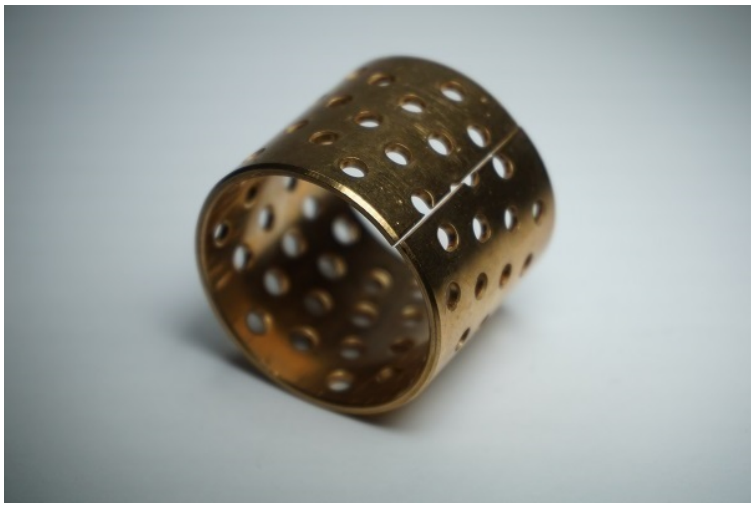

SLIDING BEARINGS AS80B(F)

SKU: AS80B(F)

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Categories: Bronze bearings

Features

- Abundant oil storage by holes.
- Excellent wear resistance.
- Requires lubrication (possible through holes).
- Longer service life.
- Lubrication holes.
- Economic wall thickness.

Application

AS80B(F) Is used as a material for bearings in for example agricultural machines, building and engineering machines.

Material

Bronze CuSn8 (or CuSn6.5 Not according to DIN 3547)

Recommendation

- Counter face: Hardness >50HRC / Rougness Ra=0,4-1.0 micron
- Tolerances: Housing H7 / shaft e7-f7.

AS80B is a wound tin-bronze CuSn8P plain bearing with holes through the bearing to allow the formation of an oil film. AS80B has good anti-fatigue, load, erosion, and wear characteristics. The bearing is widely applied in conditions of heavier load and slow speed. It is a maintenance-free dry slide bearing according to ISO 3547. The AS80B bearing can be manufactured cylindrically or with a flange. It is also possible to obtain pressure rings, strips or other shapes on request. The AS80B bearing has good sliding and wear characteristics and can be used under high loads. The bearing is a very economical solution for many purposes. The AS80B bearing requires lubrication.

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Availablity		Value	Unit
Min. inside diameter		10	mm
Max. outside diameter		200	mm
Length standard		10-200	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density	ASTM D792	8.79	g/cm³
Max. swell in water at 20 °C	ASTM D570	-	%
Mechanical properties	**Test standard**	**Value**	**Unit**
Comp. strength static	ASTM D695	150	MPa
Comp. Strength dynamic	ASTM D695	75	MPa
Module of elasticity	ASTM D695	110	Gpa
Tensile strength	ASTM D3410	460	MPa
Yield stress	ASTM D3410	260	MPa
Hardness	ASTM D785	90-120	HB Rockwell
Thermal properties	**Test standard**	**Value**	**Unit**
Thermal expansion	ASTM D696	18*10^-5	/ °C
Thermal conductivity	ASTM D696	67	W(m•k
Min. working temperature		-80	°C
Max. working temperature		200	°C
Inter. working temperature		210	°C
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction dynamic	Pin-on-ring	0.10-0.25	Dry against steel
Coefficient of friction dynamic	Pin-on-ring	0.05-0.15	Oil against steel
Max. sliding speed dry	Pin-on-ring	2	m/s
Max. pv load dry	Pin-on-ring	2.5	MPa*m/s
Max. pv load oil lubricated	Pin-on-ring	10	MPa*m/s
Max. pv load regular greased	Pin-on-ring	2.8	MPa*m/s
Specific ware rate dry (20MPa/0,02m/s)	CuSn8 test	2.5	µm/km
Specific ware rate oil lubricated (20MPa/0,02m/s)	CuSn8 test	1.0	µm/km

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