ASEC



SLIDING BEARINGS AS10B(F)

SKU: AS10B(F)

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Categories: Bronze bearings

Features

- High load capacity bearing.
- Good wear resistance.
- Requires lubrication.
- Long service life.
- Diamond shape oil pockets.
- Economic wall thickness.

Application

High load sliding bearings for lifitng- construction-, mining machinery also for machine tool industry and automobile and tractor chassis.

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.

AS10B is a wrapped tin-bronze CuSn8P sliding bearing with diamond or ball shaped oil sockets preserved for oil conservation. AS10B has excellent anti-wear, load, erosion, and abrasion characteristics. The bearing is recommended for use in slow-speed and heavy load conditions. It is a maintenance-free dry sliding bearing according to ISO 3547. The AS10B bearing can be manufactured in cylinder or flanged design. It is equally possible to deliver pressure rings, strips or other shapes on request. The AS10B bearing has good sliding and wear characteristics and can function under heavy loads. The bearing is a very economical solution for many situations. The AS10B bearing requires lubrication. A bronze strip wraps around the AS10B bearing. The material is made of a specific formulation with high gravity. It is possible to have spherical or diamond-shaped notches or oil grooves on the surface, depending on the customers' requirements. AS10B has a high load capacity and a long service life. It can act as a replacement for traditional bronze bushing for low cost and high impact performance. It is widely used in hoisting machinery, construction machinery, cars, tractors, trucks, machine tools, and specific mining industries.

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Availablity		Value	Unit
Min. inside diameter		10	mm
Max. outside diameter		205	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
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	Pin-on-ring	2.5	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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