

Datasheet AS TEBRM10



AS TEBRM10 is a wrapped tin-bronze CuSn8P sliding bearing with diamond (or ball) shaped oil sockets which are preserved for oil saving. TEBRM10 has good anti-fatigue and load, anti-erosion and abrasion characteristics. The bearing is widely applied in conditions of heavier load and slow speed. It is a maintenance free dry sliding bearing according ISO 3547. The TEBRM10 bearing can be made cylindrical or with flange. It is also possible to order thrust washers, strips or other shapes on request. The TEBRM10 bearing has good sliding and wear behavior and is able to operate under high load. The bearing is a very economical solution for many applications. The TEBRM10 bearing has to be lubricated.

AS TEBRM10 is available from 10 mm up to 300 mm shaft diameter. Bigger sizes available on request.

AS TEBRM10 is used a material for bearings in for example agricultural machines, building and engineering machines.

- (1): Hardness rockwell: HRM.
- (2): Hardness rockwell: HRC.
- (3): Coefficient of friction dynamic: oil/grease.

Material	
Material	Bronze

Availability	Unit	Value
Min. inside diameter	mm	8
Max. outside diameter	mm	305
Length standard	mm	120 (longer on request)

Physical Properties	Test Standard	Unit	Value
Density	ASTM D792	g/cm ³	8.8
Max. swell in water at 20 °C	ASTM D570	%	-

Mechanical Properties	Test Standard	Unit	Value
Compressive strength static	ASTM D695	MPa	100
Compressive strength dynamic	ASTM D695	MPa	60
Module of elasticity	ASTM D695	MPa	-
Tensile strength	ASTM D3410	MPa	460
Shear strength	ASTM D3410	MPa	-
Impact strength	ASTM D256	kJ/m ²	-
Hardness rockwell	ASTM D785	HRM/HRC	82 ⁽¹⁾

Thermal Properties	Test Standard	Unit	Value
Thermal expansion	ASTM D696	*10 ⁻⁵ / °C	18
Min. working temperature		°C	-
Max. working temperature		°C	150
Intermittent working temperature		°C	160

Friction Properties	Test Standard	Unit	Value
Coefficient of friction dynamic	Pin-on-ring	Dry against steel	0.05-0.2 ⁽³⁾
Max. sliding speed	Pin-on-ring	m/s	2
Max. pv load dry	Pin-on-ring	MPa*m/s	-
Max. pv load oil lubricated	Pin-on-ring	MPa*m/s	-
Max. pv load regular greased	Pin-on-ring	MPa*m/s	2.8
Wear factor	Pin-on-ring	*10 ⁻⁹ m ² /N	-