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Datasheet TEBRM10



TEBRM10 is a wrapped tin-bronze CuSn8P sliding bearing with diamond or ball shaped oil sockets preserved for oil conservation. TEBRM10 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 TEBRM10 bearing can be manufactured in cylinder or flanged design. It is equally possible to deliver pressure rings, strips or other shapes on request. The TEBRM10 bearing has good sliding and wear characteristics and can function under heavy loads. The bearing is a very economical solution for many situations. The TEBRM10 bearing requires lubrication. A bronze strip wraps around the TEBRM10 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. TEBRM10 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.

Application

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

Material

Bronze wrapped bearing material

Availablity

	Value	Unit
Inside diameter	10-300	mm
Outside diameter	12-305	mm
Flange diameter	30-340	mm
Flange height	2,5	mm
Total length	10-100	mm





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TEBRM10 - Specifications

Physical properties

	Test standard	Value	Unit

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		on request	
Module of elasticity - Youngs modulus		on request	
Tensile strength		450	N/mm²
Shear strength		on request	
Impact strength		on request	
Hardness		90-120	Rockwell HB
Dynamic load capacity		75	N/mm²
Speed limit v max oil		2,5	m/s
Elongation at break		55	%

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-80	°C
Max. working temperature		200	°C
Intermittent working temperature		on request	

Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic		on request	
Max. sliding speed		2,5	m/s
Max. Pv-load dry		on request	
Max. Pv-load oil lubricated		on request	
Max. Pv-load on regular greased		on request	

Electrical properties

	Test standard	Value	Unit

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