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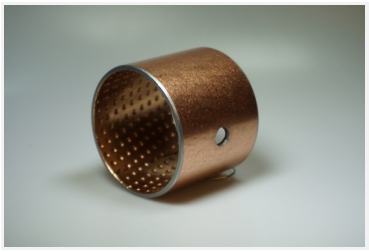
Datasheet TEBMT31



TEBMT31 is a wound bimetallic bearing. It is made of high-quality low-carbon steel with a tin-lead-bronze alloy (CuSn10Pb10) sintered on the surface. To prevent wear, the surface of the alloy could be machined with spherical oil bushings to facilitate oil storage. If needed, an anti-erosive coating can be applied to the steel backing. TEBMT31 is a maintenance-free, dry sliding bearing according to ISO 3547. The TEBMT31 bearing can be manufactured in a cylinder or flanged design. Pressure rings, strips or other shapes can also be produced on request. The TEBMT31 bearing has good sliding and wear characteristics and can be used under medium load at medium-high sliding speeds. High impact loads can be tolerated. The bearing is a highly economical solution for many purposes. The BMT31 bearing requires lubrication.

Application

Material

Bimetal with steel shell and sintered bronze lining.

Availablity

	Value	Unit
Tube inside diameter	on request	
Sheet thickness	on request	
Sheet size	on request	
Inside diameter	15-135	mm
Outside diameter	17-140	mm
Flange diameter	on request	
Flange height	on request	
Total length	okt-80	mm

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TEBMT31 - Specifications

Physical properties

	Test standard	Value	Unit

Mechanical properties

	Test standard	Value	Unit
Hardness		60-100	Rockwell HB
Dynamic load capacity		150	MPa
Speed limit v max dry		2,5	m/s
Speed limit v max oil		10	m/s

Thermal properties

	Test standard	Value	Unit
Min. working temperature		on request	
Max. working temperature		250 (with lubrication)	°C

Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic		0,05-0,15	[-]
Max. sliding speed		on request	
Max. Pv-load dry		on request	
Max. Pv-load oil lubricated		10,00	MPa*m/s
Max. Pv-load on regular greased		2,80	MPa*m/s

Electrical properties

	Test standard	Value	Unit