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Datasheet TE80



TE80 bimetallic bearing is made of steel sintered with CuPb10Sn10 or CuSn6Zn6Pb3 as a lining layer. In this product range, this type of bushing demonstrates the best performance among bushings made of Cu-lead alloy material. It is well suited for low speeds and high impact conditions. Its usages include balance suspensions of heavy-duty trucks, track roll of bulldozers, car chassis etc.

Application

Suits for idler and track roller for bulldozers, balance suspencion bushings and thrust washers for heavy-load vehicles and kin pin bushings for automobiles.

Material

Low carbon steel with sintered copper alloy.

Availablity

	Value	Unit
Inside diameter	on request	
Outside diameter	on request	
Flange diameter	on request	
Flange height	on request	
Total length	on request	

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TE80 - 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		150	MPa
Shear strength		on request	
Impact strength		on request	
Hardness		70~100	Rockwell HB
Dynamic load capacity		65	MPa
Speed limit v max dry		5	m/s

Thermal properties

	Test standard	Value	Unit
Min. working temperature		on request	
Max. working temperature		260	°C
Intermittent working temperature		on request	

Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic	oil	0,06-0,14	[-]
Max. sliding speed		on request	
Max. Pv-load dry		on request	
Max. Pv-load oil lubricated		10	MPa*m/s
Max. Pv-load on regular greased		2,8	MPa*m/s

Electrical properties

	Test standard	Value	Unit

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