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Datasheet TEP1



TEP1 is particularly suitable for bushings used in a reciprocating motion. Its characteristics are similar to that of foreign material named DD2. TEP1 has good anti-wear performance, and so it can keep the lubricating oil well after a long period of operating. In the meantime, it also has the ability to protect the surface from wear. TEP1 is used extensively as piston rings for shock absorbers in cars, motorbikes, various hydraulic cylinders, hydraulic motors and pneumatic components.

Application

Suitable for hydraulic cylinder, motors, pneumatic components and shock absorbers

Material

Steel + frcition modifier.

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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TEP1 - 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		on request	
Shear strength		on request	
Impact strength		on request	
Hardness		on request	
Dynamic load capacity		140	MPa

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-195	°C
Max. working temperature		280	°C
Intermittent working temperature		on request	

Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic		0.04-0.20	[-]
Max. sliding speed		2,5	m/s
Max. Pv-load dry		3,6	MPa*m/s
Max. Pv-load oil lubricated		50	MPa*m/s
Max. Pv-load on regular greased		on request	

Electrical properties

	Test standard	Value	Unit

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