

## Datasheet TEMX3X



TEMX3X boundary lubrication bearings are based on a composite material with 3 layers firmly bonded together. Steel as the support layer, sintered porous bronze powder as the intermediate layer and modified POM as the liner layer. TEMX3X performs well under low-speed, heavy load and normal temperature operating conditions. TEMX3X is cost-effective and it has a longer service life when acting as a replacement for normal copper tubing. TEMX3X is widely applied in auto chassis, forging machinery, metallurgical and mining equipment, construction machinery, power plant, strip rolling industries etc.

### Application

### Material

Steel backing, sintered bronze and POM liner.

### Availability

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

## TEMX3X - Specifications

### Physical properties

	Test standard	Value	Unit
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### 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		70	MPa
Speed limit v max dry		2,5	m/s

### Thermal properties

	Test standard	Value	Unit
Min. working temperature		-40	°C
Max. working temperature		130	°C
Intermittent working temperature		on request	

### Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic	pin-on-ring/dry against steel	0.05-0.25	[-]
Max. sliding speed		2,5	m/s
Max. Pv-load dry	pin-on-ring	22	MPa*m/s
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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