

## Datasheet TESS1



TESS1 stainless steel bearing coated with PTFE. It is based on stainless steel with spray-painted PTFE on the surface. It has got good anti-acid, anti-alkali and anti-salt liquid performances. TESS1 is widely used in the chemical industry for example in strong acid-alkali flow meters, pumps, valves etc. TESS1 show its benefits wherever anti-corrosion is necessary, for example at the sliding parts in the marine industry.

### Application

### Material

Stainless steel with PTFE.

### Availability

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

## TESS1 - 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		100	MPa
Speed limit v max dry		2,5	m/s

### Thermal properties

	Test standard	Value	Unit
Min. working temperature		-190	°C
Max. working temperature		280	°C
Intermittent working temperature		on request	

### Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic	pin-on-ring/dry against steel	0.03-0.18	[-]
Max. sliding speed		2,5	m/s
Max. Pv-load dry	pin-on-ring	3	MPa*m/s
Max. Pv-load oil lubricated	pin-on-ring	40	MPa*m/s
Max. Pv-load on regular greased		on request	

### Electrical properties

	Test standard	Value	Unit
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