ASEC Products
Marketing 17
6921 RE Duiven
The Netherlands
T. +31 316 84 44 01
info@asecproducts.com
www.asecproducts.com

Datasheet TESS1



TESS1 stainless steel bearing coated with PTFE. It is based on stainless steel with spray-painted PTEE 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.

Availablity

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

The information in this datasheet is provided for general purposes only and not meant to be a specific recommendation for any individual application. All values were determined under laboratory conditions. ASEC Products is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet.
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TESS1 - 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		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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