

Datasheet ASCM20



ASCM20 bearing materials are reinforced fabric polymer materials specially developed for high loads and smooth running with low friction and temperatures up to 220°C. The material is based on phenolic resin and aramid fabric with an ideal polymer concentration, giving excellent results in areas where reduced friction and wear are required. ASCM20 is highly wear-resistant and, therefore, suitable for use under extreme conditions. ASCM20 has excellent wear resistance and is ideal for use in dry, wet and lubricated conditions. ASCM20 has very high wear resistance, is resistant to edge loading and has low swelling in water.

Application

High load sliding bearings, water pumps, sliding pads for high performance and high temperature or abrasive environments.

Material

Synthetic fibre with phenolic resin with friction modifiers.

Availability

	Value	Unit
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	on request	
Inside diameter	on request	
Outside diameter	on request	
Flange diameter	on request	
Flange height	on request	
Total length	on request	



ASCM20 - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,40	g/cm ³
Max. swell in water at 20 °C		1,00	%

Mechanical properties

	Test standard	Value	Unit
Compressive strength static		340	MPa
Module of elasticity - Youngs modulus		on request	
Tensile strength		on request	
Shear strength		100	MPa
Impact strength		on request	
Hardness		115	HRM
Dynamic load capacity		on request	
Charpy notched impact strength +23°C		60	kJ/m ²

Thermal properties

	Test standard	Value	Unit
Thermal expansion Parallel to laminate	ASTM D696	2,0	10 ⁻⁵ °C
Thermal expansion Normal to laminate		3,0	10 ⁻⁵ °C
Min. working temperature		on request	
Max. working temperature		200	°C
Intermittent working temperature		220	°C

Friction properties

	Test standard	Value	Unit
Coefficient of friction dynamic		on request	
Max. sliding speed		on request	
Max. Pv-load dry		on request	
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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