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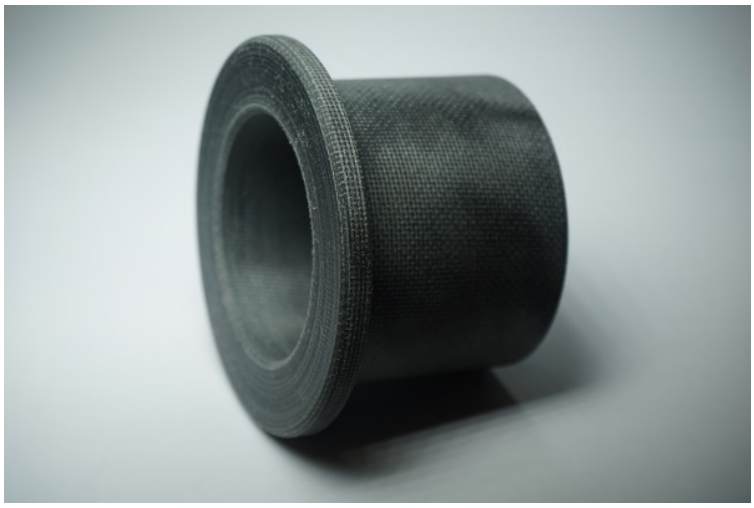

SLIDING BEARINGS ASRS30(F)

SKU: ASRS30(F)

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Categories: Composite bearings

Features

- Low frictional coefficient.
- Low stick-slip.
- High load, shock and wear resistant.
- Low water absorption.
- Dry running, but also very good in water.
- Suitable for use in dry, wet and lubricated conditions.

Application
High load sliding bearings, water pumps, sliding pads, wear rings, hinges, hydraulic cylinders, material handling, agricultural equipment.

Material
Synthetic fiber with polyester resin with friction modifiers.

ASRS30 bearing materials are reinforced woven polymers specially developed for high loads and smooth running underwater or wet conditions. The material contains an ideal concentration of molybdenum disulphide, which gives excellent results in areas where reduced friction and wear are required. ASRS30 has good wear resistance and is suitable for dry, wet (excellent) and lubricated conditions. ASRS30 has a low coefficient of friction, is resistant to edge loading and will hardly swell in water.

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Availablity		Value	Unit
Min. inside diameter		20	mm
Max. outside diameter		2500	mm
Length standard		500	mm
Sheet size		500x500	mm
Sheet thickness		2.5-200	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density	ASTM D792	1,24	g/cm³
Max. swell in water at 20 °C	ASTM D570	0.1	%
Mechanical properties	**Test standard**	**Value**	**Unit**
Comp. strength static	ASTM D695	330	MPa
Module of elasticity	ASTM D695	2300	MPa
Tensile strength	ASTM D3410	60	MPa
Shear strength	ASTM D3410	80	Mpa
Impact strength	ASTM D256	50	kJ/m2
Hardness	ASTM D785	98	HRM Rockwell
Dynamic load capacity		80	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Thermal expansion	ASTM D696	7.0	[-]
Min. working temperature		-40	°C
Max. working temperature		120	°C
Inter. working temperature		140	°C
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction dynamic	pin-on-ring/dry against steel	0.08-0.13	[-]
Max. sliding speed	Pin-on-ring	2.2	m/s
Max. pv load dry	Pin-on-ring	0.25	MPa*m/s
Max. pv load oil lubricated	Pin-on-ring	0.40	MPa*m/s
Max. pv load regular greased	Pin-on-ring	0.50	MPa*m/s
Wear factor	Pin-on-ring	5	*10^-9 mm2/N

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