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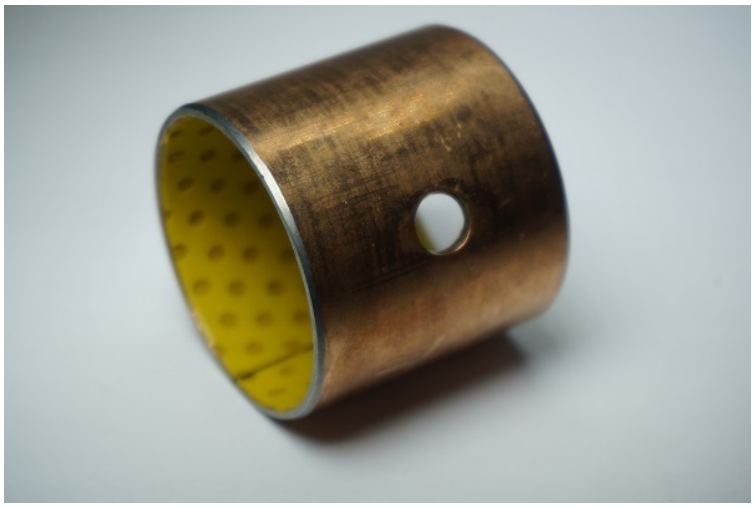

SLIDING BEARINGS ASMX(F)

SKU: ASMX(F)

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Categories: Steel bearings

Features

- Lead free.
- Dry running.
- Good sliding behavior.
- Good wear performance.
- Suitable for medium-load.
- Suitable for medium-speed.

Material
Steel with tin or copper plating inside and POM.

ASMX is a wound composite bearing with POM coating. It is lined with copper-plated steel and porous bronze sintered POM polymer. It is a maintenance-free dry sliding bearing in accordance with ISO 3547. The ASMX bearing can be made cylindrical or flanged. It is also possible to order pressure plates, strips or other shapes on request. The ASMX bearing has good sliding and wear behavior and is capable of withstanding high loads. The bearing is a very economical solution for many applications. The ASMX bearing has a sliding layer and does not require lubrication, although this is possible.

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Availablity		Value	Unit
Min. inside diameter		10	mm
Max. outside diameter		305	mm
Flange diameter		On request	mm
Length standard		10-100	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density	ASTM D792	7	g/cm³
Thermal conductivity		13	W/m.k.
Max. swell in water at 20 °C	ASTM D570	0,00	%
Mechanical properties	**Test standard**	**Value**	**Unit**
Comp. strength static		250	MPa
Shear strength		200	MPa
Dynamic load capacity		70	MPa
Speed limit v max oil		2.5	m/s
Thermal properties	**Test standard**	**Value**	**Unit**
Thermal expansion Parallel to laminate	ASTM D696	12.0	10^-5°C
Thermal expansion Normal to laminate	ASTM D696	12.0	10^-5°C
Min. working temperature		-40	°C
Max. working temperature		130	°C
Intermittent working temperature		140	°C
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction dynamic	pin-on-ring/dry against steel	0.05-0.20	[-]
Max. sliding speed		2.5	m/s
Max. pv load dry	pin-on-ring	2.8	MPa*m/s
Max. pv load oil lubricated	pin-on-ring	22	MPa*m/s

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