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science friction

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ID Material	66
Responsable	R. Antich
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SF-MC2

SF-MC2 is a high performance metal free material, with a high friction coefficient. It has a high percentage of aramid fibre. It can be considered as an alternative for sintered metal materials and offers many advantages. It resists high energy inputs and is suitable for both dry and oil-immersed applications. It is not abrasive to the counter material, and it's noiseless while operating. It resists high surface pressures. The wear rate is low even at high temperatures. SF-MC2 is available in thicknesses from 0.4mm to 7.5mm. Similar to SF-BU but with higher friction coefficient.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.40±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.45±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.40±0.05
Wear Rate (@10bar, 15m/s)	30 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>400 °C

Physical properties

Hardness (DIN53505)	85±5 Shore-D
Specific Gravity (ASTM D792)	1.30±0.05 gr/cm3
Thermal Conductivity (ASTM E1952)	0.25±0.01 W/m°K

Mechanical properties

Tensile Strength (ASTM D638)	70±5 N/mm²
Compressive Strength (ISO 844:2014)	306±10 N/mm²
Burst Resistant (200 x 137 x 3,5)@200ºC	18200±100 RPM
Poison coefficient (ASTM D638)	0.27±0.03
Young Modulus (ASTM D638)	7260±100 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	360 °C
Tº Max. Intermittent Operation	400 °C

Material type

Paper

Appearance / Formats



Applications

Car / motorcycle competition clutches · Clutch buttons · Heavy vehicle clutches · Micellaneous industrial brakes / clutches

Price Level

€ € €

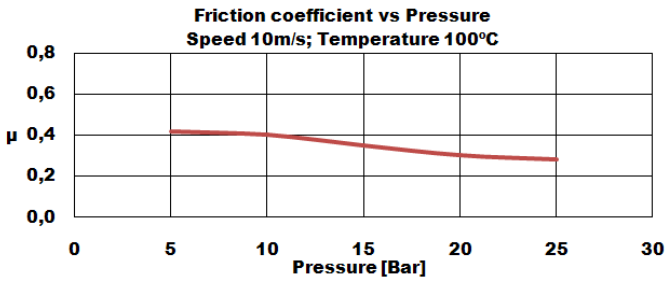
Reach (EC)1907/2023 - RoHS 2015/863/EU

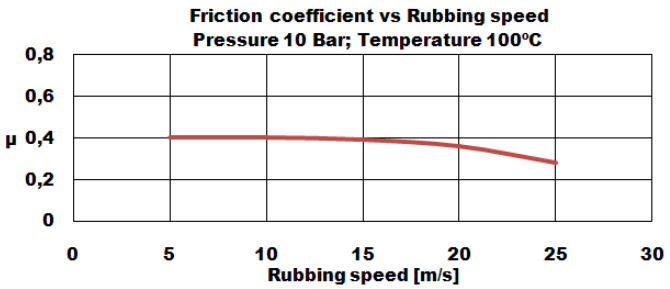
Compliance

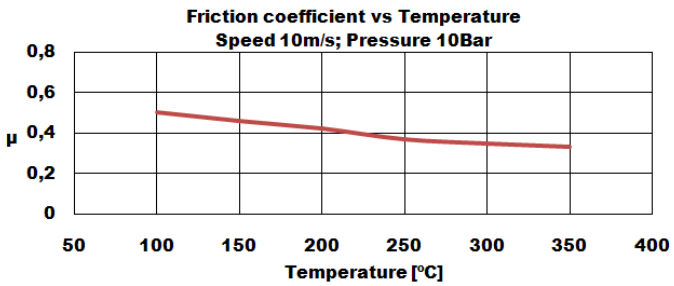
Others

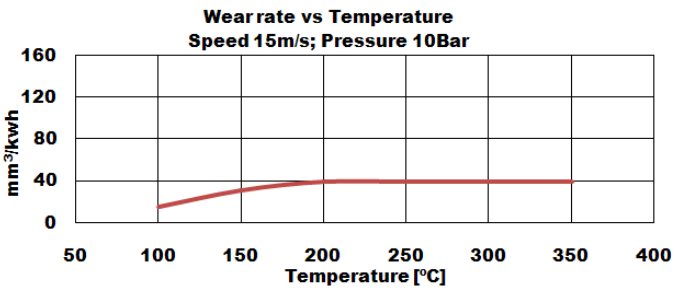
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

Charts









Rubbing speed, temperature and pressure are related. Changing any values will change other. The values shown represent typical conditions, but are not ultimate limits of the material.