

ID Material: 66  
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# SF-MC2

SF-MC2 is a high performance, high friction, non-metal composite material containing a high percentage of aramid fibre. It can be considered as an alternative for sintered metal materials and offers many advantages. It will resist high energy inputs and is suitable for both dry and oil-immersed applications. It is not abrasive to the counter material, is silent in operation and it will resist high pressures. The wear rate is low even at high temperatures. SF-MC2 is available in thicknesses from 0.6mm to 7.5mm. Similar to SF-BU but with higher friction coefficient.

## Material data

### Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.30±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.45±0.05	μ
Dynamic Friction Coefficient (10bar, 10m/s):	0.40±0.05	μ
Wear Rate (79N, 7m/s):	60±10	mm <sup>3</sup> /Kwh
T° Fading (100N, 11.5m/s):	390±10	°C

### Physical properties

Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792-91):	1.30±0.05	gr/cm <sup>3</sup>
Thermal Conductivity (ASTM E1952-01):	0.25±0.01	W/m <sup>2</sup> K

### Mechanical properties

Tensile Strength (ASTM D638-10):	70±5	N/mm <sup>2</sup>
Compressive Strength (UNE 53205):	306±5	N/mm <sup>2</sup>
Burst Resistant (200 x 137 x 3,5) 200°C:	18200±100	RPM
Poisson Coefficient:	0.27±0.03	
Young Modulus (ASTMD 638-10):	7260±100	N/mm <sup>2</sup>

### Recommended Working Values

T° Max. Continuous Operation:	360	°C
T° Max. Intermittent Operation:	400	°C

Material type : Paper Friction

### Appearance / Formats



### Applications

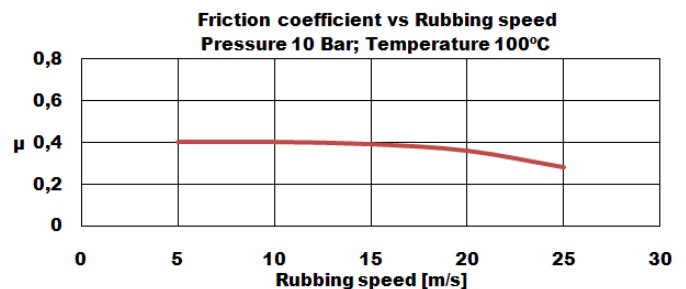
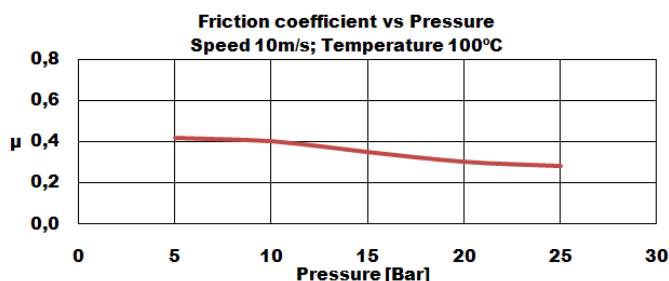
Car / motorcycle competition clutches - Clutch buttons - Heavy vehicle clutches - Miscellaneous industrial brakes / clutches -

Price Level : € € €

Reach (EC)1907/2006 - RoHS 2011/65/EU : Compliance

### Others

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



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.