



ID MATERIAL: 60
RBLE: R. ANTICH
REVISION: 5
DATE: 23/05/2014

FRICTION MATERIAL:

SF-001

> DESCRIPTION

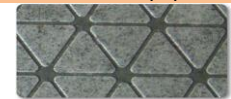
SF-001 is a high performance, high friction, non-metal composite material containing a high percentage of aramid fibre. Same family of SF-BU, but with a less higher kevlar composition. **It can be considered as an alternative for sintered metal materials and offers many advantages.** It will resist high 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-001 is available in thicknesses from 0.6mm to 5mm.

> MATERIAL TABLE

> FRICTION PROPERTIES	Value	Unit
Dynamic Friction Coefficient (@79N, 7m/s)	0.50±0.05	μ
Wear Rate (@79N, 7m/s)	40±10	mm ³ /kwh
T ^o Fading (@100N, 11.5m/s)	400±10	°C
> PHYSICAL PROPERTIES		
Hardness (DIN53505)	80±5	Shore-D
Specific Gravity (ASTM D792-91)	1.35±0.05	gr/cm ³
Thermal Conductivity (ASTM E1952-01)	0.25±0.01	w/m ^o K
> MECHANICAL PROPERTIES		
Tensile Strength (ASTM D638-10)	68±5	N/mm ²
Compressive Strength (UNE 53205)	300±5	N/mm ²
Burst Resistant (200 x 137 x 3,5)@200 °C	18300±100	RPM
Poisson Coefficient	0.28±0.03	
Young Modulus (ASTMD638-10)	7000±100	N/mm ²
> RECOMMENDED WORKING VALUES		
T ^o Max. Continuous Operation	300	°C
T ^o Max. Intermittent Operation	400	°C

MATERIAL TYPE Kevlar friction paper

APPEARANCE



FORMATS



APPLICATIONS

- Heavy vehicle clutches
- Clutch buttons
- Vehicle clutches
- Truck clutches
- Friction gasket
- Wet friction

RECOMMENDED MATING SURFACE

Perlitic cast iron, hardness HB150-200

OIL RESISTANT

Yes

RECOMMENDED ADHESIVE

Thermosetting adhesive

PRICE LEVEL

€ € €

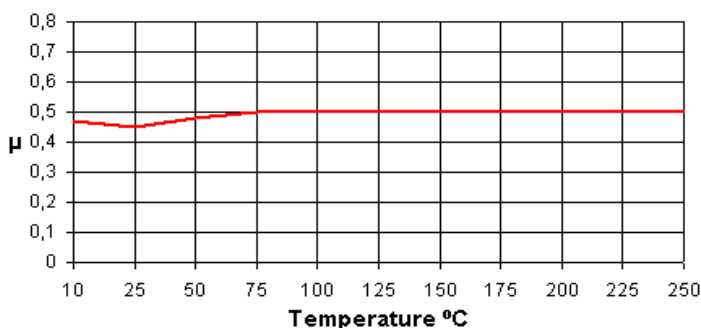
REACH (EC)1907/2006

Compliance

RoHS 2011/65/EU

Compliance

Friction coefficient (μ) vs Temperature (°C) @80psi 7m/s



> LEGEND



Discs



Sheets



Finished Parts



Bonded