

ID Material: 62  
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Revision: 6  
Last updated: 28/01/2019

# SF-BU

SF-BU 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-BU is available in thicknesses from 0.6mm to 5mm. Similar to SF-001 but with a higher kevlar composition in order to increase friction characteristics.

## Material data

### Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.40±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.43±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T° Fading:	>400	°C

### Physical properties

Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792):	1.20±0.05	gr/cm3
Thermal Conductivity (ASTM E1952):	0.25±0.01	W/m²K

### Mechanical properties

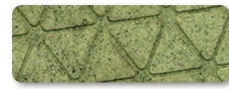
Tensile Strength (ASTM D638):	70±5	N/mm²
Compressive Strength (ISO 844:2014):	306±5	N/mm²
Burst Resistant (200 x 137 x 3,5) 200°C:	18200±100	RPM
Poisson Coefficient (ASTM D638):	0.27±0.03	
Young Modulus (ASTM D638):	7260±100	N/mm²

### 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

