

ID Material: 67  
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Revision: 0  
Last updated: 13/11/2023

# SF-2SB

SF-2SB is a high performance material, with a very high friction coefficient, containing a high percentage of aramid fibers and steel shavings. It's considered as an alternative for sintered materials, and it offers many advantages in front of them. It resists high energy inputs and is perfectly suitable for both dry and oil-immersed applications. It's not abrasive against the mating material at all, actually so smooth and friendly against it, and it resists very high surface pressures. The wear rate is so low even at high temperatures. SF-2SB is available from 0.5 [mm] thicknesses

## Material data

### Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.40±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.65±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T° Fading:	>500	°C

### Physical properties

Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792):	1.27±0.1	gr/cm3

### Mechanical properties

Tensile Strength (ASTM D638):	70±5	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	300±10	N/mm <sup>2</sup>
Burst Resistant (200 x 137 x 3,5) 200°C:	18200±200	RPM
Poisson Coefficient (ASTM D638):	0.27±0.03	
Young Modulus (ASTM D638):	7200±100	N/mm <sup>2</sup>

### Recommended Working Values

T° Max. Continuous Operation:	300	°C
T° Max. Intermittent Operation:	450	°C

### Material type : Paper Friction

### Appearance / Formats



### Applications

Agricultural and building machinery - Callipers for industrial applications - Car / motorcycle competition clutches - Clutch buttons - Friction Gasket - Heavy-duty industrial machinery - Miscellaneous industrial brakes / clutches - Wet Friction

### Price Level : € € €

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

### Others

Recommended Mating Surface: Perlitic cast iron, hardness HB150-200

Recommended Adhesives: Thermosetting adhesive

Oil Resistant: Yes

