

ID Material: 68  
Rble: R. Antich  
Revision: 0  
Last updated: 16/06/2020

# SF-CPX61

SF-CPX61 is a high performance metal free material, with a high friction coefficient, containing a high percentage of aramid fibers. It's considered as a good alternative for sintered materials, and it offers many advantages in front of them. It resists high energy inputs and is totally suitable for both dry and oil-immersed applications. It's not abrasive against the mating material at all, and it resists very high surface pressures. The wear rate is so low even at high temperatures. SF-CPX61 is available from 0.5 [mm] thicknesses

## Material data

### Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.35±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.55±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Wear Rate (79N, 7m/s):	80±10	mm <sup>3</sup> /Kwh
T° Fading:	>500	°C

### Physical properties

Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792):	1.25±0.1	gr/cm3
Thermal Conductivity (ASTM E1952):	0.25±0.1	W/m°K

### Mechanical properties

Tensile Strength (ASTM D638):	70±5	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	300±50	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 bulding machinery - Car / motorcycle competition clutches  
- Clutch buttons - Heavy-duty industrial machinery - Miscellaneous  
industrial brakes / clutches - Wet Friction -

Price Level : € € €

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

### Others

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

