

ID Material: 54  
Rble: R. Antich  
Revision: 0  
Last updated: 31/07/2021

# SFD

SFD is green rigid friction material which consists phenol resins as a bonding system, short fibres, friction modifiers and fillers. This offers a medium high static coefficient and an excellent mechanical resistance, very successful for wind turbine components.

SFD is fully cured and suitable for bonding and riveting.

## Material data

### Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.55±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.50±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T° Fading:	>310	°C

### Physical properties

Hardness (DIN53505):	80±5	Shore-D
Specific Gravity (ASTM D792):	1.75±0.05	gr/cm3
Thermal Conductivity (ASTM E1952):	0.49±0.01	W/m°K

### Mechanical properties

Tensile Strength (ASTM D638):	20±5	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	115±10	N/mm <sup>2</sup>
Shear Modulus (ASTM D2344-00):	2217±100	N/mm <sup>2</sup>
Poisson Coefficient (ASTM D638):	0.24±0.03	
Young Modulus (ASTM D638):	5500±100	N/mm <sup>2</sup>

### Recommended Working Values

T° Max. Continuous Operation:	200	°C
T° Max. Intermittent Operation:	300	°C

Material type : Rigid material

### Appearance / Formats



### Applications

Damper Technologies - Heavy duty static applications - Holding  
Mechanical Structures - Yaw brakes

Price Level : € € €

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

### Others

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

