Frenos Sauleda s.a.
science friction

Barri del migdia S/N - E 08396
Sant Cebrià de Vallalta (Barcelona - Spain)
sauleda@frenossauleda.com
Tel. (+34) 93 763 11 20 Fax (+34) 93 763 10 61

ID Material	54
Responsable	R. Antich
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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 coefficiency 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

Static Friction Coefficient (@15bar, from the box)	0.55±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.50±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.40±0.05
Wear Rate (@10bar, 15m/s)	60 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>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/mm²
Compressive Strength (ISO 844:2014)	115±10 N/mm²
Shear Modulus (ASTM D2344-00)	2217±100 N/mm²
Poison coefficient (ASTM D638)	0.24±0.03
Young Modulus (ASTM D638)	5500±100 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	200 °C
Tº Max. Intermittent Operation	300 °C

Material type

Rigid

Appearance / Formats



Applications

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

Price Level

€ € €

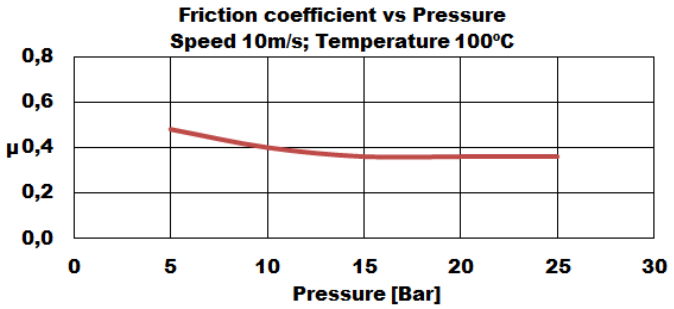
Reach (EC)1907/2023 - RoHS 2015/863/EU

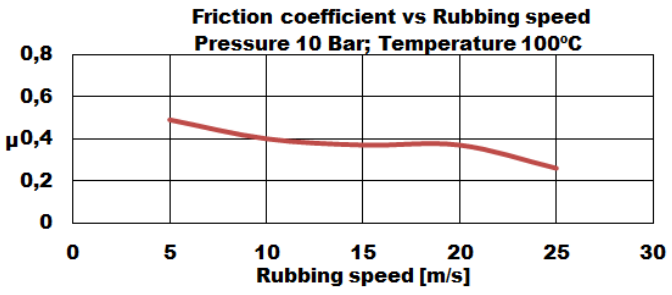
Compliance

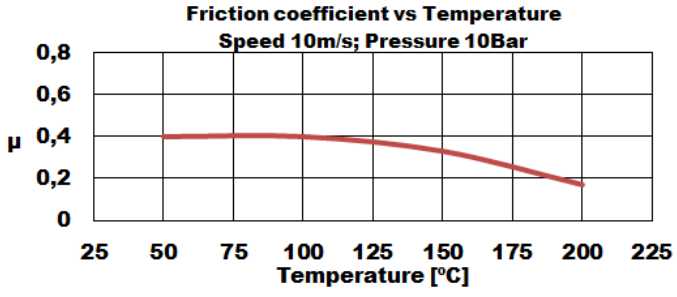
Others

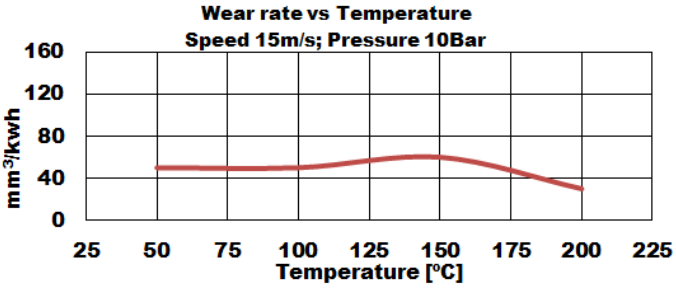
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

Charts









Rubbing speed, temperature and pressure are related. Changing any values will change other. The values shown represent typical conditions, but are not ultimate limits of the material.