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	67
Responsable	R. Antich
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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

Static Friction Coefficient (@15bar, from the box)	0.40±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.65±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.70±0.05
Wear Rate (@10bar, 15m/s)	60 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>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/mm²
Compressive Strength (ISO 844:2014)	300±10 N/mm²
Burst Resistant (200 x 137 x 3,5)@200ºC	18200±200 RPM
Poison coefficient (ASTM D638)	0.27±0.03
Young Modulus (ASTM D638)	7200±100 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	300 °C
Tº Max. Intermittent Operation	450 °C

Material type

Paper

Appearance / Formats



Bonded

Rings

Sheets

Washers

Applications

Agricultural and bulding 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

€ € €

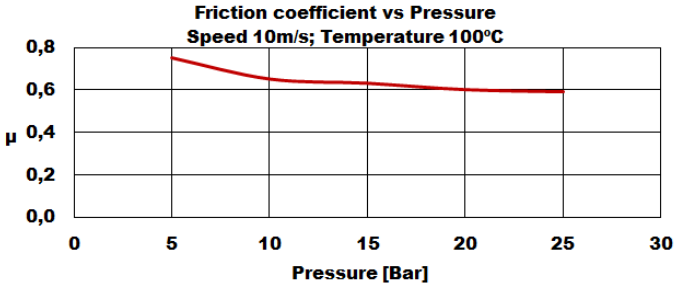
Reach (EC)1907/2023 - RoHS 2015/863/EU

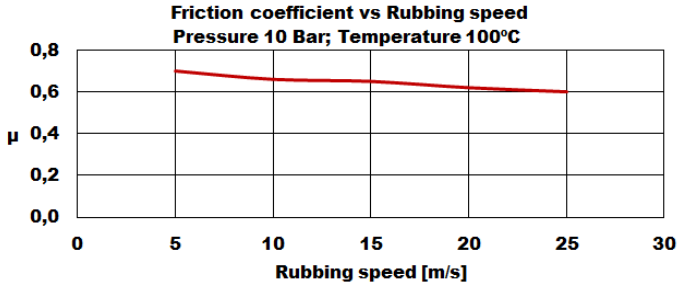
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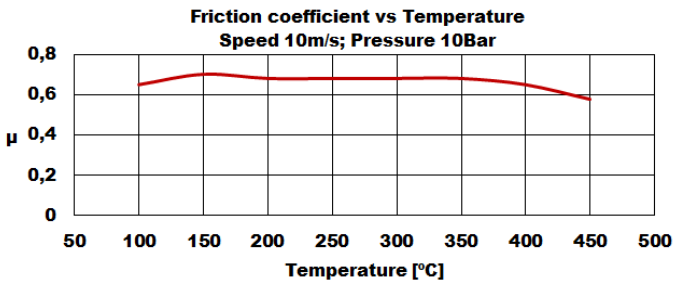
Others

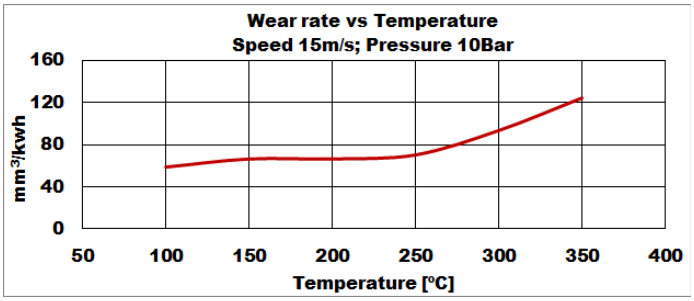
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

Charts









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