Frenos Sauleda s.a.
science friction

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ID Material	331
Responsable	R. Antich
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FF

FF is a grey molded friction material enhance with, metallic components in order to increase it resistance when is its exposed to high temperatures, and glass fiber for better strength resistance. Moreover, there are inside resin, rubbers, fibers (mineral and metallic) and asbestos free We manufacturing moulded parts with specific mould, at high presure and temperature.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.5±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.50±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.45±0.05
Wear Rate (@10bar, 15m/s)	40 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>350 °C

Physical properties

Hardness (DIN53505)	75±5 Shore-D
Specific Gravity (ASTM D792)	1.9±0.1 gr/cm3
Acetone Extraction (ASTM D494)	35 %
Thermal Conductivity (ASTM E1952)	0.28±0.1 W/m°K

Mechanical properties

Tensile Strength (ASTM D638)	14±5 N/mm²
Compressive Strength (ISO 844:2014)	75±5 N/mm²
Shear Modulus (ASTM D2344-00)	2418±100 N/mm²

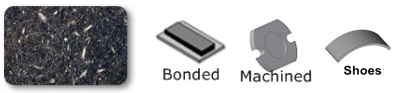
Recommended Working Values

Tº Max. Continuous Operation	250 °C
Tº Max. Intermittent Operation	380 °C
Max. Pressure	100 Bar
Max. Rubbing Speed	30 m/s

Material type

Rigid

Appearance / Formats



Applications

Agricultural and bulding machinery · Drum Brakes · Industrial drum and brand brakes · Miscellaneous industrial brakes / clutches

Price Level

€ € €

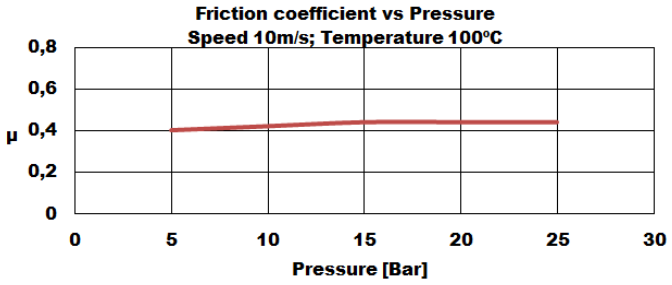
Reach (EC)1907/2023 - RoHS 2015/863/EU

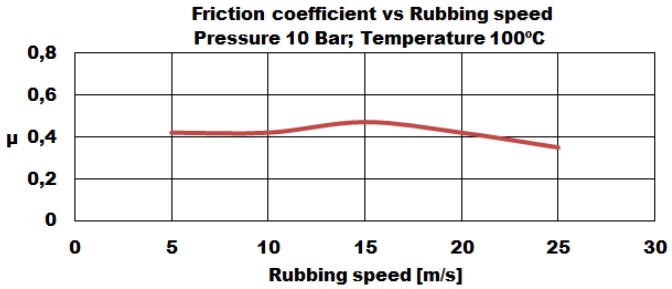
Compilance

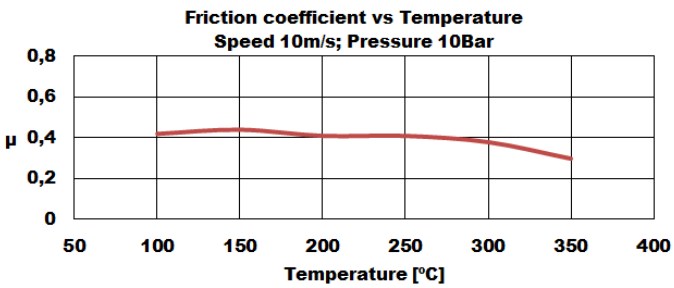
Others

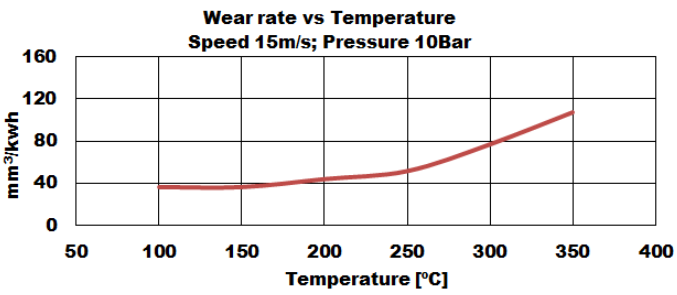
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.