Frenos Sauleda s.a.
science friction

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Rble: R. Antich
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SAFF

SAFF is green rigid molded friction material, which offers a very high friction coefficient. This material is reinforced with glass fibers and has a good mechanical resistance. The material consists phenolic resins with a NBR bonding system, short and large fibres, friction modifiers and fillers. SAFF 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, 100ºC):	0.55±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>350	°C

Physical properties

Hardness (DIN53505):	88±5	Shore-D
Specific Gravity (ASTM D792):	1.8±0.05	gr/cm3
Ignition Loss (ASTM D7348):	40±2	%
Acetone Extraction (ASTM D494):	0.15±0.02	%

Mechanical properties

Tensile Strength (ASTM D638):	15±5	N/mm^2
Compressive Strength (ISO 844:2014):	175±5	N/mm^2

Recommended Working Values

T° Max. Continuous Operation:	300	°C
T° Max. Intermittent Operation:	400	°C

Material type : Rigid material

Appearance / Formats


Machined


Rings


Sheets

Applications

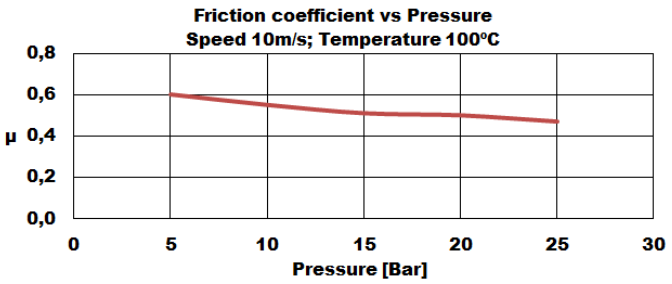
Industral clutches - Rings segments for machinery - Torque limitator

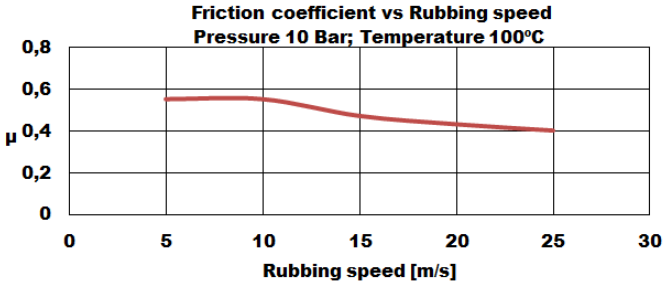
Price Level : € € €

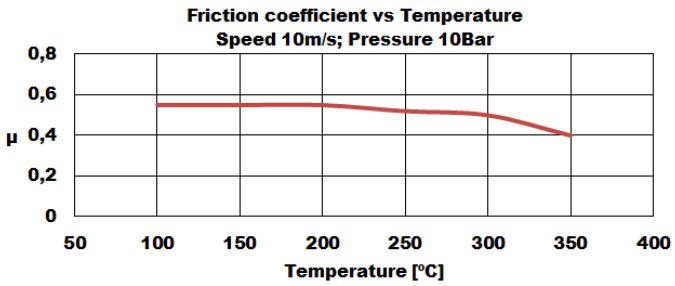
Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

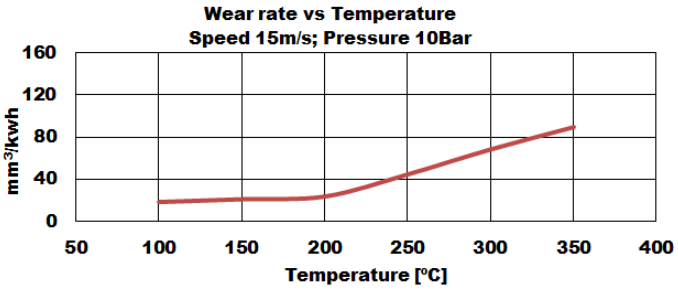
Others

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









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.