Frenos Sauleda s.a.
science friction

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SA92

SA92 is a Frenos Sauleda standard formulation which is suitable for light medium duty. It is a rigid material, with low wear and very stable friction performance.The material main composition is phenol resins with a NBR bonding system, short fibres, friction modifiers and fillers. SA92 is fully cured and suitable for bonding and riveting.

Material data

Friction propieties (according graphics)

Static Friction Coefficient (15bar, from box):	0.45±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.50±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>350	°C

Physical properties

Hardness (DIN53505):	85±5	Shore-D
Specific Gravity (ASTM D792):	1.8±0.05	gr/cm3
Shear resistance (ISO 6312:2001):	22±2	N/mm^2

Mechanical properties

Tensile Strength (ASTM D638):	14±5	N/mm^2
Compressive Strength (ISO 844:2014):	140±5	N/mm^2
Shear Modulus (ASTM D2344-00):	1530±100	N/mm^2
Poisson Coefficient (ASTM D638):	0.27±0.03	
Young Modulus (ASTM D638):	3896±100	N/mm^2

Recommended Working Values

T° Max. Continuous Operation:	250	°C
T° Max. Intermittent Operation:	350	°C

Material type : Rigid material

Appearance / Formats

Applications

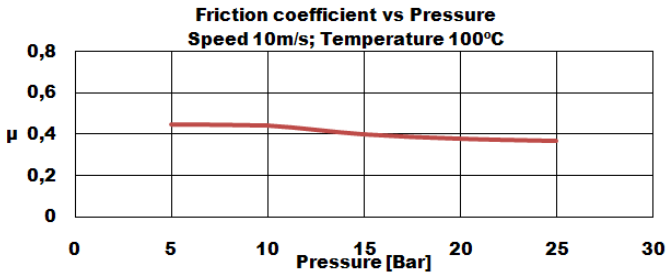
Agricultural and bulding machinery - Callipers for industrial applications - Cones segments for machinery - Friction washers - Gear discs for industrial devices - Industrial clutches - Rings segments for machinery

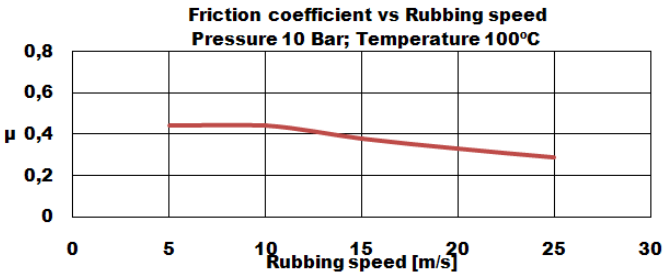
Price Level : € € €

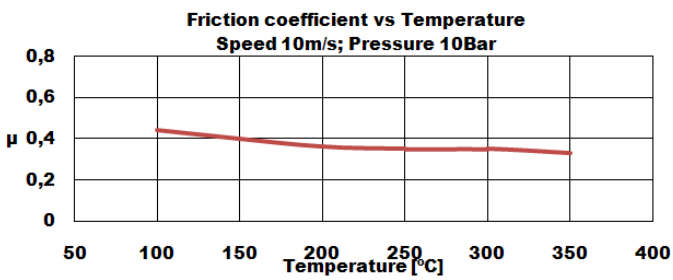
Reach (EC)1907/2006 - RoHS 2011/65/EU : Compliance

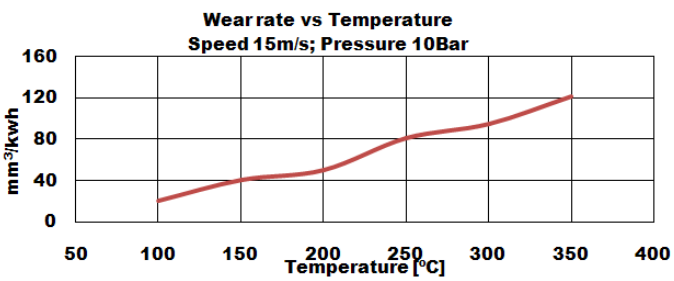
Others

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.