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science friction

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ID Material	4
Responsable	R. Antich
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SA92

SA92 is our most regular quality which is suitable for light and medium duty applications. It's a rigid material, with low wear and a very stable friction performance. It's a phenolic resin based material, mixed with NBR powders to get perfect linkage, and it also has short fibers and other friction modifiers / fillers. SA92 is fully cured and suitable for bonding and riveting.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.48±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.53±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.40±0.05
Wear Rate (@10bar, 15m/s)	50 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>350 °C

Physical properties

Hardness (DIN53505)	85±5 Shore-D
Specific Gravity (ASTM D792)	1.83±0.05 gr/cm3
Shear resistance (ISO 6312:2001)	22±2 N/mm²

Mechanical properties

Tensile Strength (ASTM D638)	13±5 N/mm²
Compressive Strength (ISO 844:2014)	150±5 N/mm²
Shear Modulus (ASTM D2344-00)	1534±100 N/mm²
Poison coefficient (ASTM D638)	0.27±0.03
Young Modulus (ASTM D638)	3896±100 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	250 °C
Tº Max. Intermittent Operation	350 °C

Material type

Rigid

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

€ € €

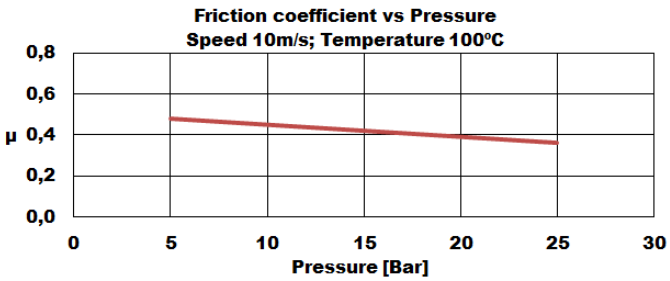
Reach (EC)1907/2023 - RoHS 2015/863/EU

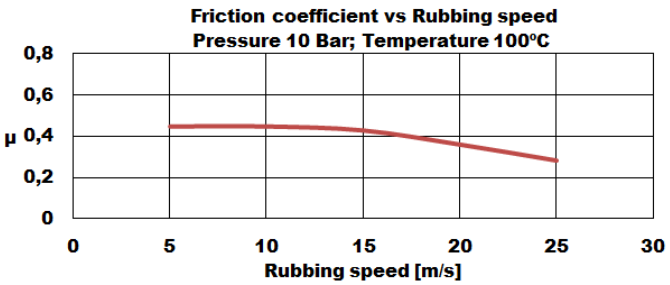
Compliance

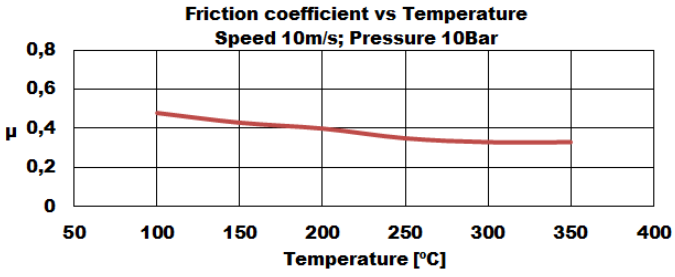
Others

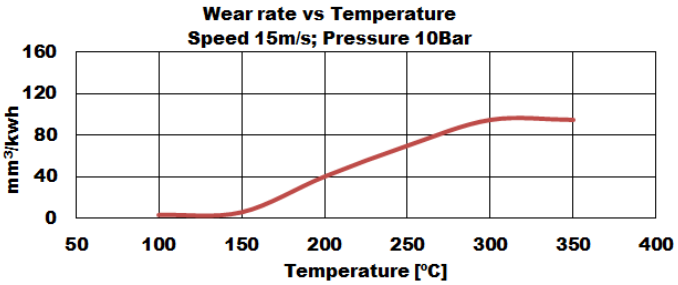
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.