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science friction

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ID Material	PA
Responsable	R.Antich
Revision	0
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SA7251

SA7251 is rigid moulded, asbestos free friction material on a elastomeric/resin matrix, reinforced with synthetic fibers, without metal components. This matrix help so much at mechanical propieties. SA7251 is fully cured material and is suitable for bonding & rivetting.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.35±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.35±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.44±0.05
Wear Rate (@10bar, 15m/s)	25 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>350 °C

Physical properties

Hardness (DIN53505)	82±5 Shore-D
Specific Gravity (ASTM D792)	1.70 ± 0.1 gr/cm3
Thermal Conductivity (ASTM E1952)	0.49±0.01 W/m°K

Mechanical properties

Tensile Strength (ASTM D638)	25±5 N/mm²
Compressive Strength (ISO 844:2014)	130±5 N/mm²
Young Modulus (ASTM D638)	2510±100 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	<250 °C
Tº Max. Intermittent Operation	<400 °C
Max. Pressure	<50 Bar
Max. Rubbing Speed	<40 m/s

Material type

Rigid

Appearance / Formats



Applications

Brake pads · Drum Brakes · Industral clutches · Miscellaneous industrial brakes / clutches · Rings segments for machinery

Price Level

€ € €

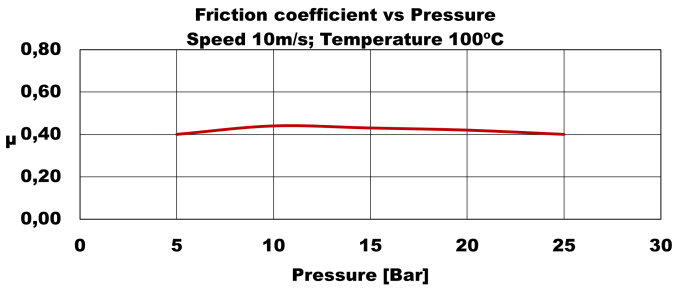
Reach (EC)1907/2023 - RoHS 2015/863/EU

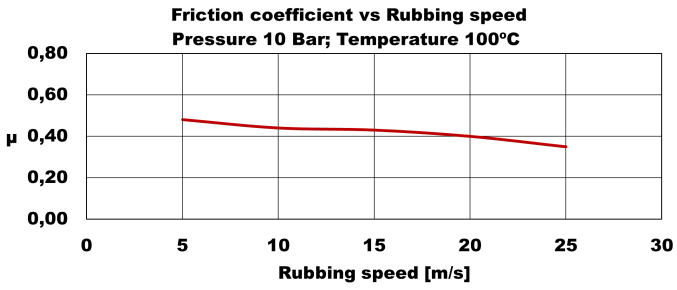
Compliance

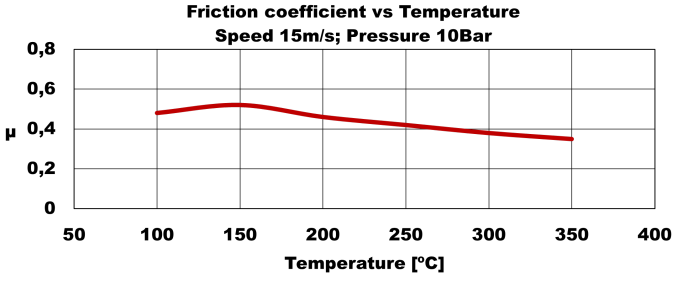
Others

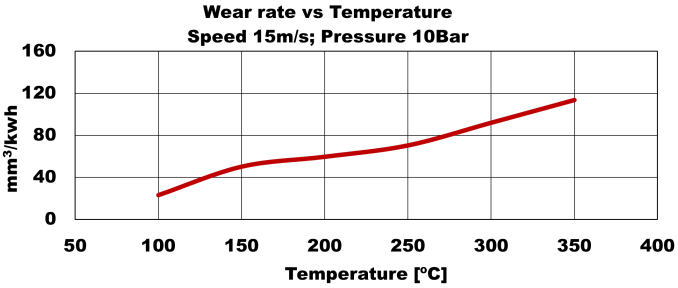
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Poor

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.