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science friction

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ID Material	c9
Responsable	R. Antich
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SMR

The brake band SMR is a rubber based material,characterised by high flexibility and solidity. The material contains steel fibres. It is especially suitable for glue fixing and allows machining. SMR is dark-grey, and its resistance to wear is excellent.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.40±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.40±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.30±0.05
Wear Rate (@10bar, 15m/s)	15 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>250 °C

Physical properties

Hardness (DIN53505)	60±5 Shore-D
Specific Gravity (ASTM D792)	2.1±0.1 gr/cm3

Mechanical properties

Tensile Strength (ASTM D638)	15±10 N/mm²
Compressive Strength (ISO 844:2014)	130±10 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	250 °C
Tº Max. Intermittent Operation	350 °C
Max. Pressure	15 Bar
Max. Rubbing Speed	15 m/s

Material type

Flexible

Appearance / Formats





Rolls

Applications

Agricultural and bulding machinery · Drum Brakes · Micellaneous industrial brakes / clutches

Price Level

€ € €

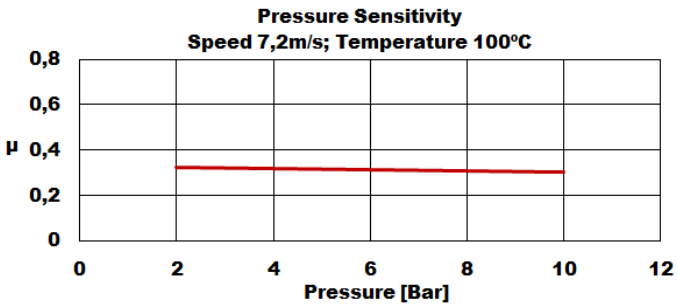
Reach (EC)1907/2023 - RoHS 2015/863/EU

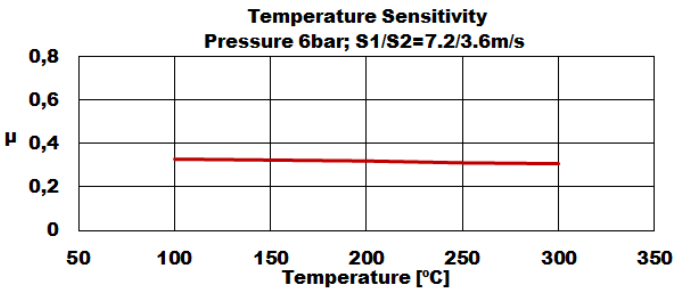
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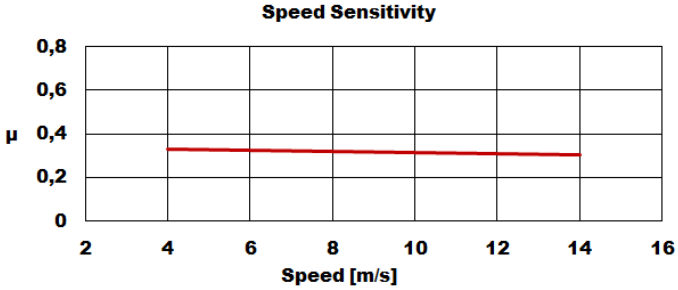
Others

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 others. The values shown represent typical conditions, but are not ultimate limits of the material