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science friction

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ID Material	B2
Responsable	R. Antich
Revision	1
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SA18/04

This is a semi -rigid and semi-metallic moulded friction material. It is composed basically of resins and rubber as a link system with frictional modifier agents, mineral fibres and fine iron shavings to enhance its strength which help to establish the friction value by conducting heat from the operating surface. It is black with iron shavings. It has high and very stable friction coefficient with medium wear and excellent resistance to fading. It is suitable for both bonding and riveting.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.40±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.50±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.50±0.05
Wear Rate (@10bar, 15m/s)	60 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>400 °C

Physical properties

Hardness (DIN53505)	85±5 Shore-D
Specific Gravity (ASTM D792)	2.15±0.05 gr/cm3
Ignition Loss (ASTM D7348)	43±2 %
Acetone Extraction (ASTM D494)	3±0.2 %

Mechanical properties

Tensile Strength (ASTM D638)	13±5 N/mm²
Compressive Strength (ISO 844:2014)	75±5 N/mm²
Shear Modulus (ASTM D2344-00)	1740±100 N/mm²
Poison coefficient (ASTM D638)	0.18±0.03
Young Modulus (ASTM D638)	4100±100 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	350 °C
Tº Max. Intermittent Operation	450 °C

Material type

Rigid

Appearance / Formats



Applications

Brake blocks · Callipers for industrial applications · Forging machinery · Gear discs for industrial devices · Heavy-duty industrial machinery · Mining industries · Miscellaneous industrial brakes / clutches · Punch-die press blocks · Ring segments · Torque limitator

Price Level

€ € €

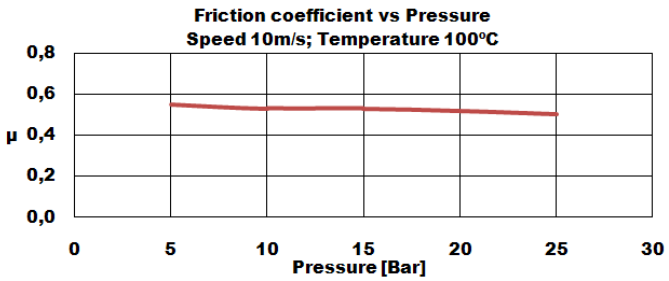
Reach (EC)1907/2023 - RoHS 2015/863/EU

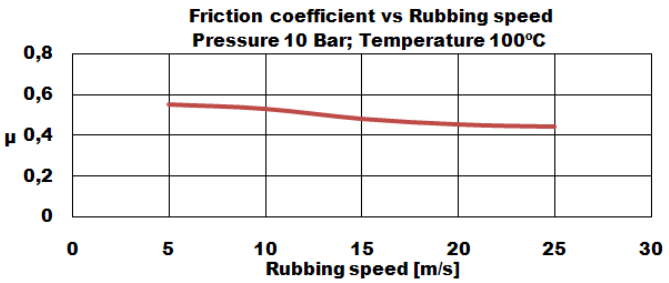
Yes

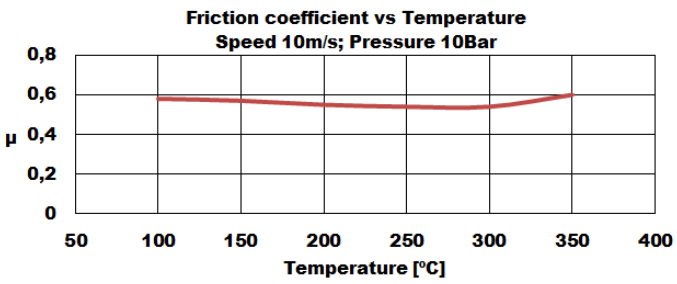
Others

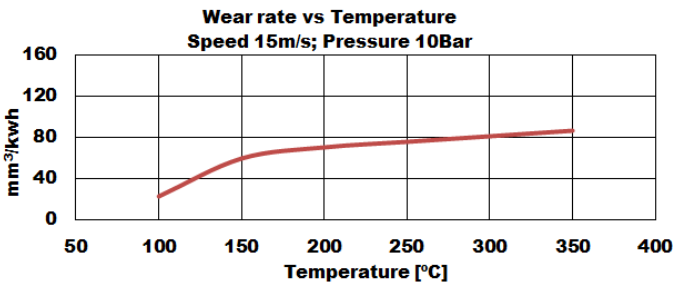
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.