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science friction

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ID Material	89
Responsable	R. Antich
Revision	6
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SA80/25

SA80/25 is a non-asbestos and moulded friction material. With a low friction coefficient and good resistance against wear. It is composed basically of resins as a link system with frictional modifier agents and mineral fibres to enhance its strength which helps to establish the friction coefficient value. It is black. It is a fully cured material and is suitable for both bonding and riveting.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.39±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.35±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.28±0.05
Wear Rate (@10bar, 15m/s)	15 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>250 °C

Physical properties

Hardness (DIN53505)	70 – 75 Shore-D
Specific Gravity (ASTM D792)	1,65±0.05 gr/cm3
Ignition Loss (ASTM D7348)	34 – 38 %
Acetone Extraction (ASTM D494)	2±0.2 %

Mechanical properties

Tensile Strength (ASTM D638)	16±5 N/mm²
Compressive Strength (ISO 844:2014)	100±5 N/mm²
Young Modulus (ASTM D638)	3800±100 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	200 °C
Tº Max. Intermittent Operation	250 °C

Material type

Rigid

Appearance / Formats



Applications

Continuous brakes · Miscellaneous industrial brakes / clutches

Price Level

€ € €

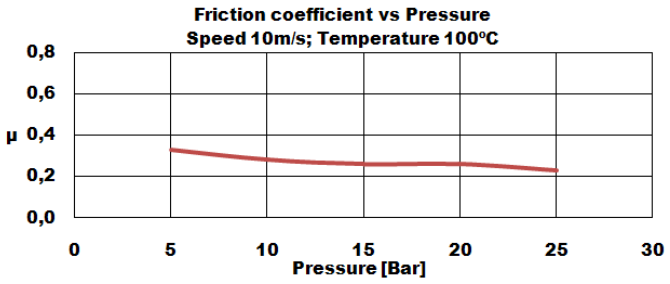
Reach (EC)1907/2023 - RoHS 2015/863/EU

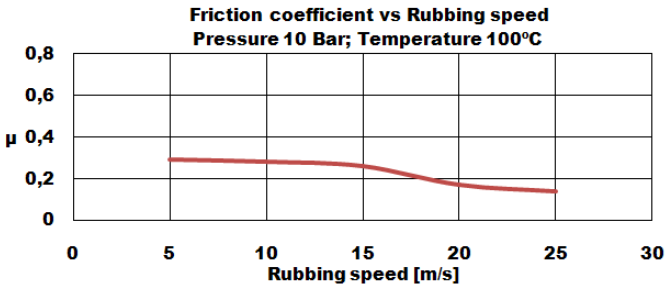
Compliance

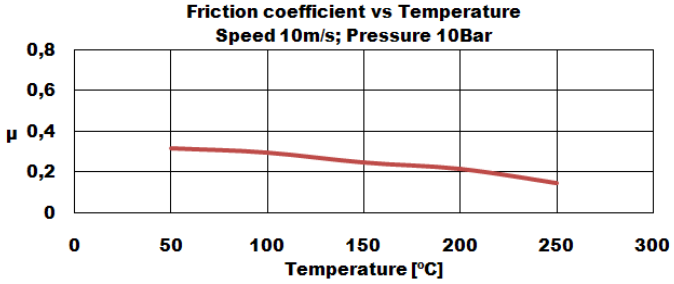
Others

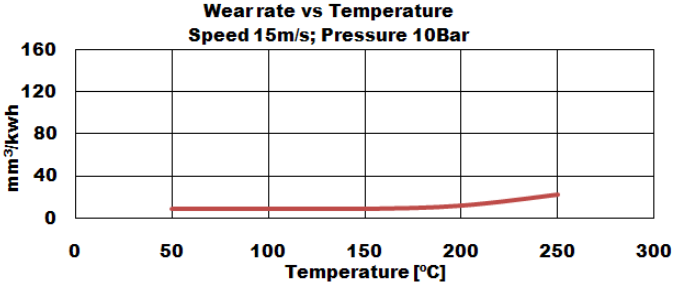
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.