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science friction

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ID Material	18
Responsable	R. Antich
Revision	6
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SA80/20

SA80/20 is black rigid friction material based on graphite with a medium low friction coefficient, offers low wear and silent operation. The material consists phenolic resins as a bonding system, short fibers, friction lubricants and fillers. SA80/20 is fully cured and suitable for bonding and riveting.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.35±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.42±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.35±0.05
Wear Rate (@10bar, 15m/s)	25 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>350 °C

Physical properties

Hardness (DIN53505)	75±5 Shore-D
Specific Gravity (ASTM D792)	1.8±0.05 gr/cm3
Ignition Loss (ASTM D7348)	36±2 %
Acetone Extraction (ASTM D494)	1.85±0.2 %

Mechanical properties

Tensile Strength (ASTM D638)	16±5 N/mm²
Compressive Strength (ISO 844:2014)	83±5 N/mm²
Young Modulus (ASTM D638)	3500±100 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	300 °C
Tº Max. Intermittent Operation	350 °C

Material type

Rigid

Appearance / Formats



Applications

Callipers for industrial applications · Continuous brakes · Friction washers · Torque limitator

Price Level

€ € €

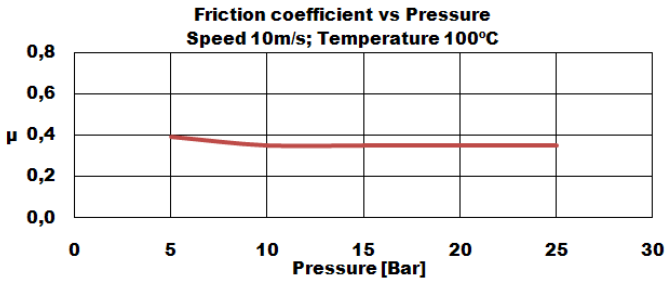
Reach (EC)1907/2023 - RoHS 2015/863/EU

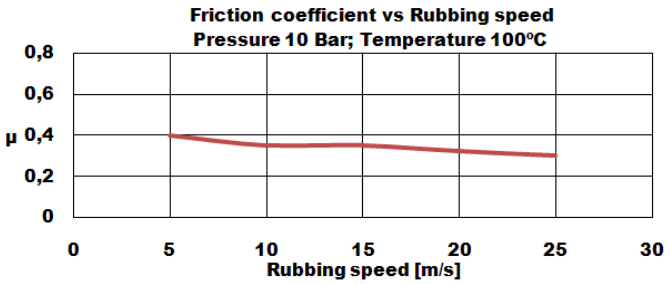
Compliance

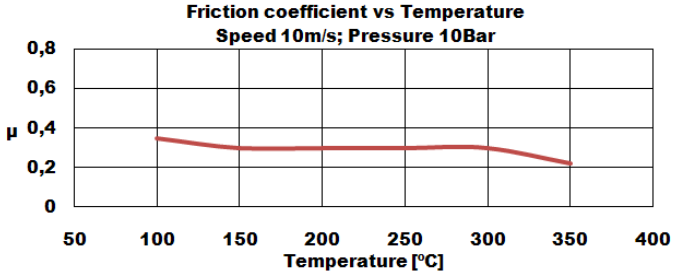
Others

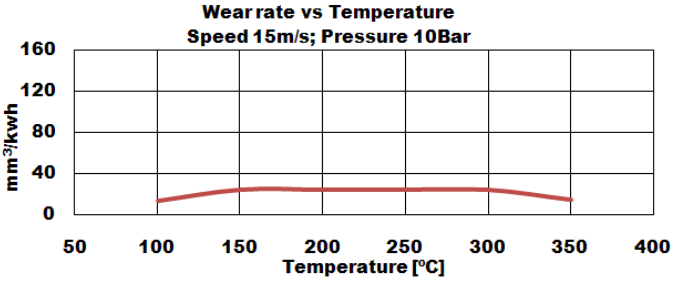
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.