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science friction

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ID Material	T5
Responsable	R. Antich
Revision	5
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TOP/05

TOP/05 is green molded friction material which main characteristics are flexibility and a high static friction coefficient. This material is resistant to high temperatures. It consists phenolic resins with a NBR rubber bonding system, short fibers, friction modifiers and fillers. TOP/05 is semi-cured and suitable for bonding and riveting.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.60±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.60±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.50±0.05
Wear Rate (@10bar, 15m/s)	40 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>300 °C

Physical properties

Hardness (DIN53505)	45±5 Shore-D
Specific Gravity (ASTM D792)	1.6±0.05 gr/cm3
Ignition Loss (ASTM D7348)	43±2 %
Acetone Extraction (ASTM D494)	1±0.2 %
Thermal Conductivity (ASTM E1952)	0.22±0.01 W/m°K

Mechanical properties

Tensile Strength (ASTM D638)	5±2 N/mm²
Compressive Strength (ISO 844:2014)	143±5 N/mm²
Shear Modulus (ASTM D2344-00)	175±10 N/mm²
Poison coefficient (ASTM D638)	0.36±0.03
Young Modulus (ASTM D638)	474±100 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	250 °C
Tº Max. Intermittent Operation	350 °C

Material type

Flexible

Appearance / Formats



Applications

Brake pads

Price Level

€ € €

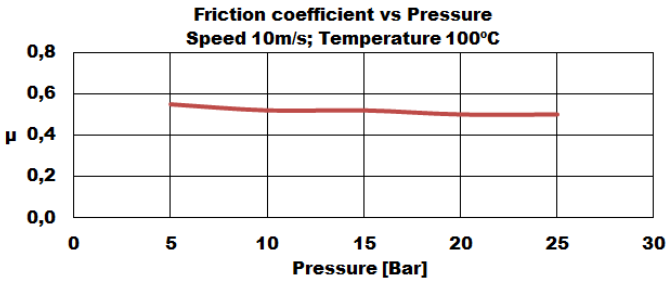
Reach (EC)1907/2023 - RoHS 2015/863/EU

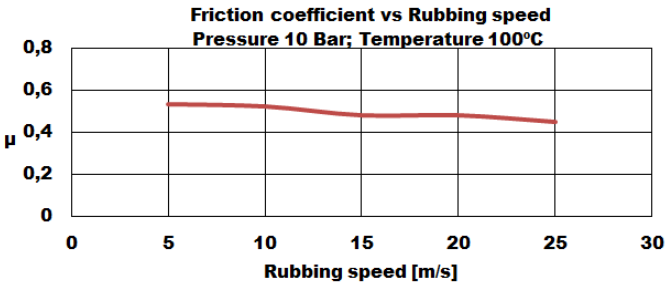
Compliance

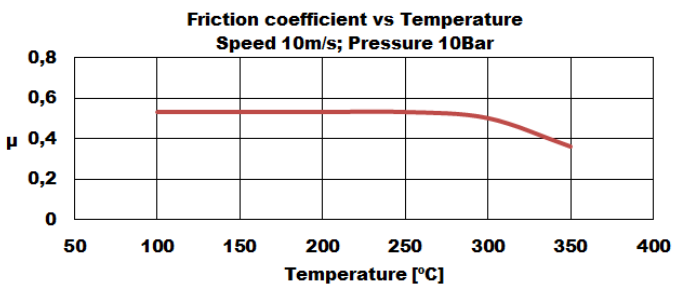
Others

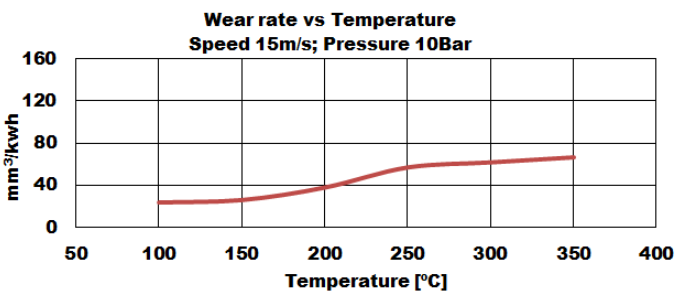
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.