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science friction

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ID Material	B9
Responsable	R. Antich
Revision	6
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DD01

DD01 is molded black friction material. The basic materials which are used are: phenolic resins and NBR as the bonding system. Reinforced with a high volume of short cut fibres which help to reach a very good mechanical and frictional performance. It is fully cured material and is 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)	0.50±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.45±0.05
Wear Rate (@10bar, 15m/s)	35 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>350 °C

Physical properties

Hardness (DIN53505)	80±5 Shore-D
Specific Gravity (ASTM D792)	2.05±0.05 gr/cm3
Ignition Loss (ASTM D7348)	35±2 %
Acetone Extraction (ASTM D494)	2±0.2 %

Mechanical properties

Tensile Strength (ASTM D638)	19±5 N/mm²
Compressive Strength (ISO 844:2014)	110±5 N/mm²

Recommended Working Values

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

Material type

Rigid

Appearance / Formats



Applications

Brake pads · Friction washers · Gear discs for industrial devices · Rings segments for machinery

Price Level

€ € €

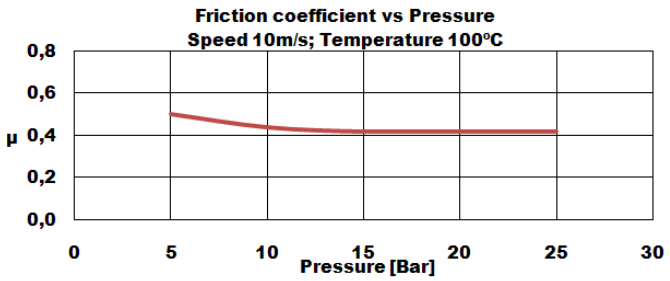
Reach (EC)1907/2023 - RoHS 2015/863/EU

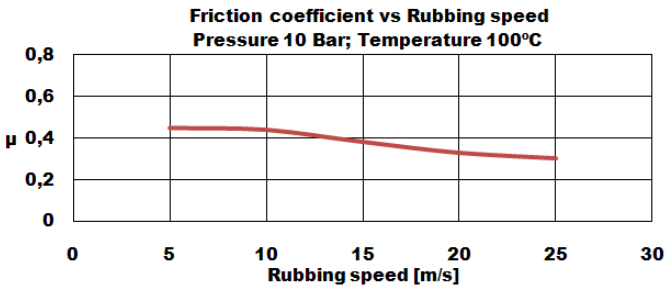
Compliance

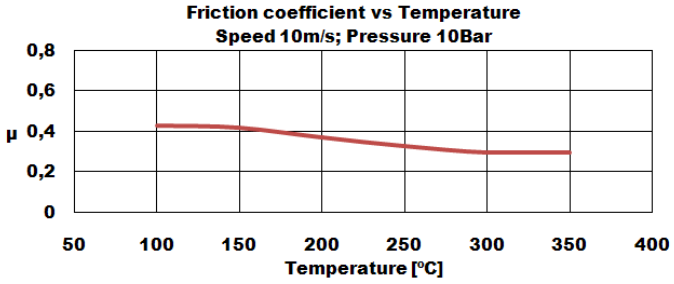
Others

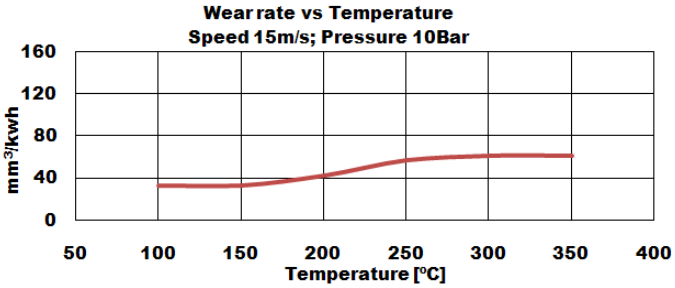
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.