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science friction

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ID Material	40
Responsable	R. Antich
Revision	6
Revision date	31/07/2021

MM

MM is designed for heavy duty industrial brake applications. It consists a resin of impregnated textile based material with metal components. MM has a good mechanical resistance, is fully cured and suitable for bonding and riveting.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.45±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.50±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.30±0.05
Wear Rate (@10bar, 15m/s)	40 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>200 °C

Physical properties

Hardness (DIN53505)	90±5 Shore-D
Specific Gravity (ASTM D792)	1.6±0.05 gr/cm3
Ignition Loss (ASTM D7348)	20±2 %
Acetone Extraction (ASTM D494)	3±0.2 %

Mechanical properties

Tensile Strength (ASTM D638)	47±5 N/mm²
Compressive Strength (ISO 844:2014)	410±5 N/mm²
Shear Modulus (ASTM D2344-00)	5320±100 N/mm²
Poison coefficient (ASTM D638)	0.255
Young Modulus (ASTM D638)	13354±100 N/mm²

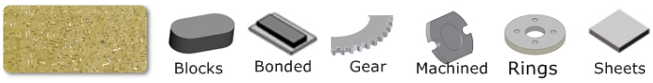
Recommended Working Values

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

Material type

Woven

Appearance / Formats



Applications

Forging machinery · Heavy duty static applications · Heavy-duty industrial machinery · Holding Mechanical Structures · Machinery Mining industries

Price Level

€ € €

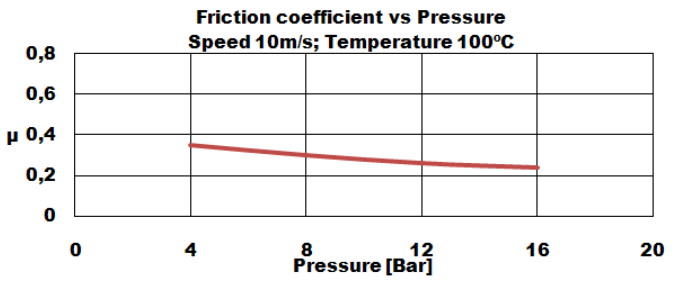
Reach (EC)1907/2023 - RoHS 2015/863/EU

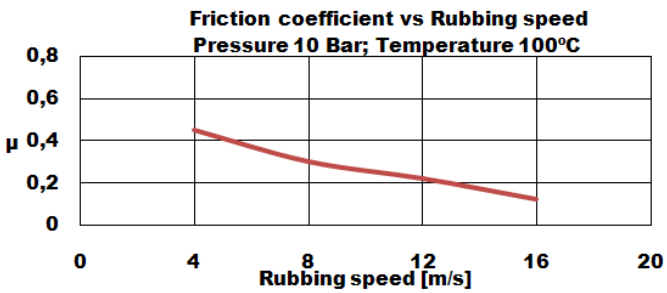
Compliance

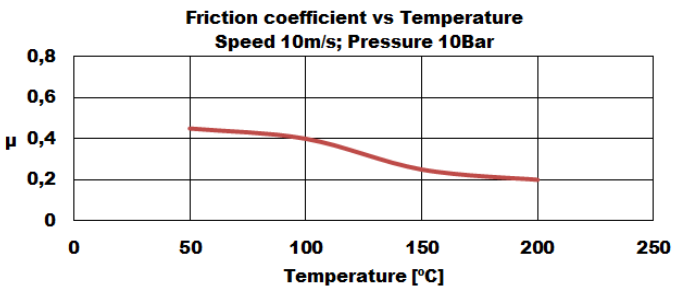
Others

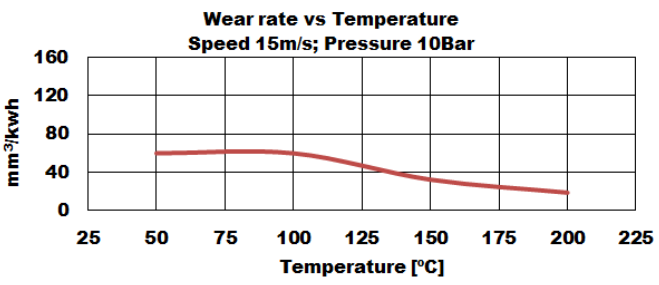
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.