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science friction

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ID Material: 40
Rble: R. Antich
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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 (according graphics)

Static Friction Coefficient (15bar, from box):	0.45±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.50±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>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

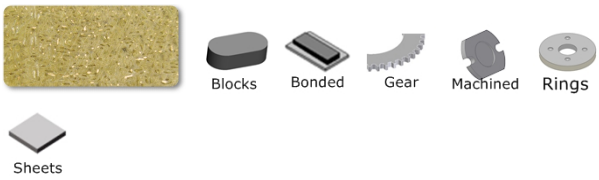
Tensile Strength (ASTM D638):	47±5	N/mm^2
Compressive Strength (ISO 844:2014):	410±5	N/mm^2
Shear Modulus (ASTM D2344-00):	5320±100	N/mm^2
Poisson Coefficient (ASTM D638):	0.255	
Young Modulus (ASTM D638):	13354±100	N/mm^2

Recommended Working Values

T° Max. Continuous Operation:	200	°C
T° Max. Intermittent Operation:	250	°C

Material type : Rigid material

Appearance / Formats



Applications

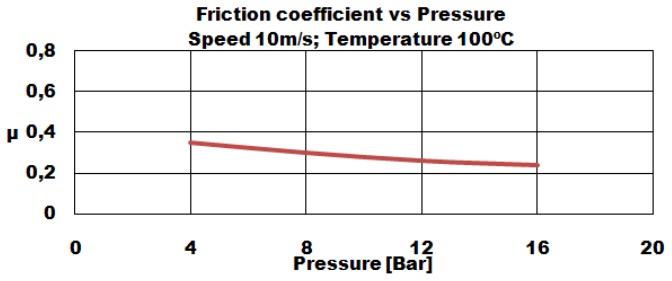
Forging machinery - Heavy duty static applications - Heavy-duty industrial machinery - Holding Mechanical Structures - Machinery Mining industries

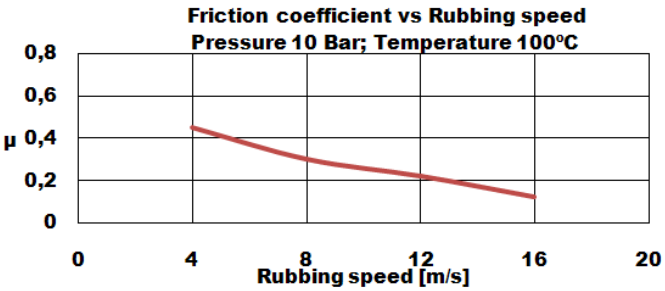
Price Level : € € €

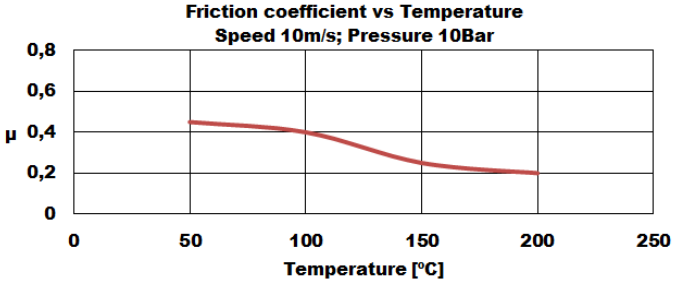
Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

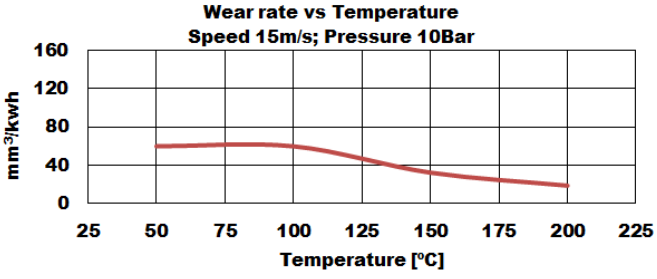
Others

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









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.