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science friction

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ID Material: N 3
Rble: R. Antich
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MC3

MC3 is a rigid, semi-metallic, moulded material. It is a resin based material, and it uses rubber powder as a linkage, along with friction modifier agents, mineral fibers and fine copper shavings to enhance its strength. It has high temperature dissipation capacity from the operating surface. MC3 has a high and very stable friction coefficient, and excellent resistance to fading. MC3 is a fully cured material and is suitable for bonding & riveting.

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.60±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.65±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>400	°C

Physical properties

Hardness (DIN53505):	88±5	Shore-D
Specific Gravity (ASTM D792):	2±0.10	gr/cm3
Thermal Conductivity (ASTM E1952):	0.31±0.01	W/m°K

Mechanical properties

Tensile Strength (ASTM D638):	15±1	N/mm^2
Compressive Strength (ISO 844:2014):	126±5	N/mm^2
Shear Modulus (ASTM D2344-00):	2154±100	N/mm^2
Poisson Coefficient (ASTM D638):	0.23±0.03	
Young Modulus (ASTM D638):	5300±100	N/mm^2

Recommended Working Values

T° Max. Continuous Operation:	400	°C
T° Max. Intermittent Operation:	500	°C

Material type : Rigid material

Appearance / Formats



Bonded

Machined

Rings

Sheets

Applications

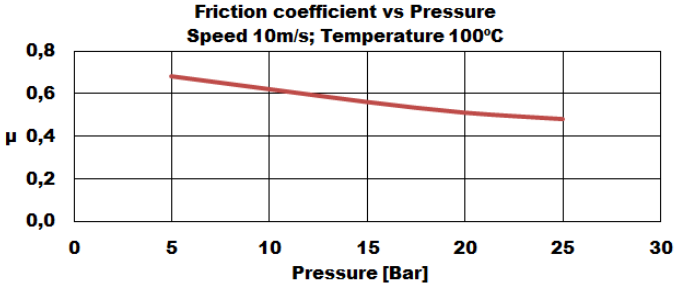
Forging machinery - Heavy duty static applications - Heavy-duty industrial machinery - Machinery Mining industries - Punch-die press blocks - Ring segments

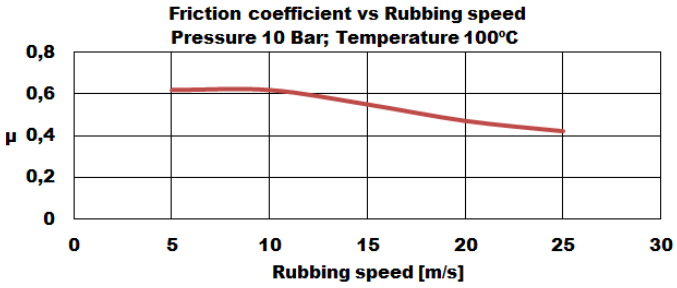
Price Level : € € €

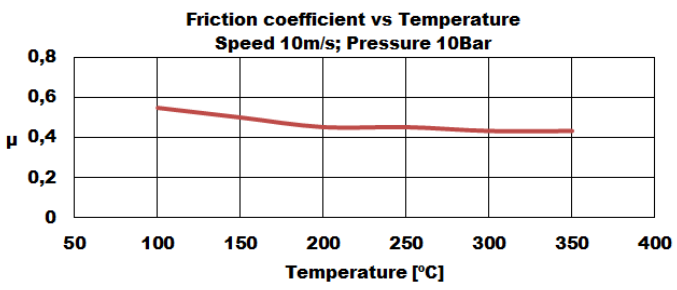
Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

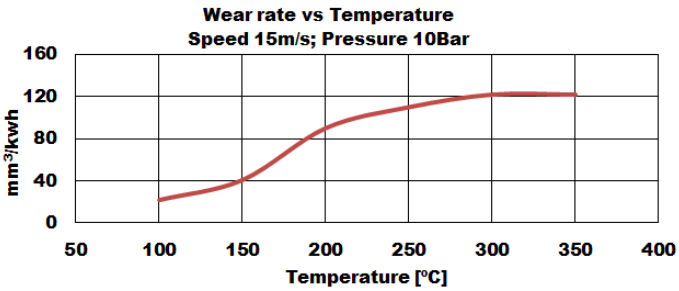
Others

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.