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science friction

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FAG/M

FAG/M is a phenolic resin based formulation, developed for many different industrial applications. Its best features are high hardness values and a very high mechanical strength, with a medium / high friction values. It has copper and steel chips and fibers, which leads to good heat dissipation on temperature applications. FAG/M is fully cured, rigid and is totally suitable for bonding and riveting.

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.50±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.52±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>350	°C

Physical properties

Hardness (DIN53505):	87±5	Shore-D
Specific Gravity (ASTM D792):	1.85±0.05	gr/cm3

Mechanical properties

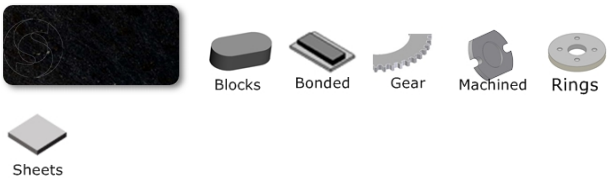
Tensile Strength (ASTM D638):	15.2±2	N/mm^2
Compressive Strength (ISO 844:2014):	160±5	N/mm^2
Shear Modulus (ASTM D2344-00):	2080±100	N/mm^2
Poisson Coefficient (ASTM D638):	0.25±0.03	
Young Modulus (ASTM D638):	5200±100	N/mm^2

Recommended Working Values

T° Max. Continuous Operation:	250	°C
T° Max. Intermittent Operation:	350	°C

Material type : Rigid material

Appearance / Formats



Applications

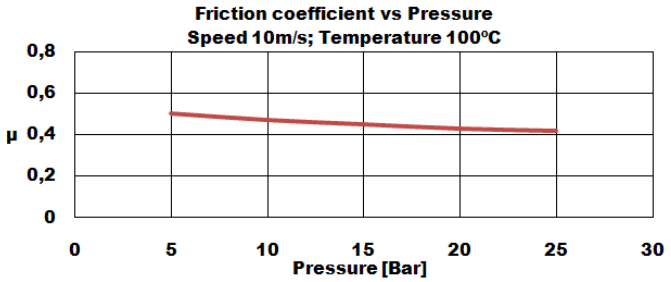
Brake blocks - Callipers for industrial applications - Electro-magnetic brakes - Forging machinery - Gear discs for industrial devices - Heavy-duty industrial machinery - Industral clutches - Rings segments for machinery - Rings segments for Presses

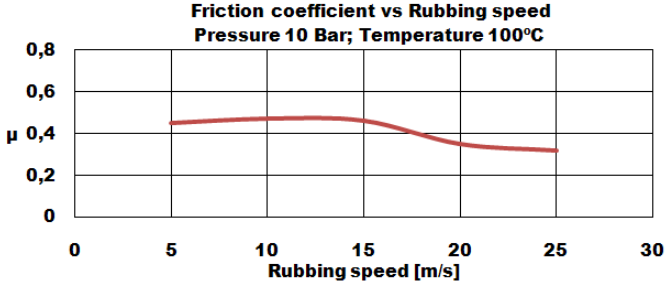
Price Level : € € €

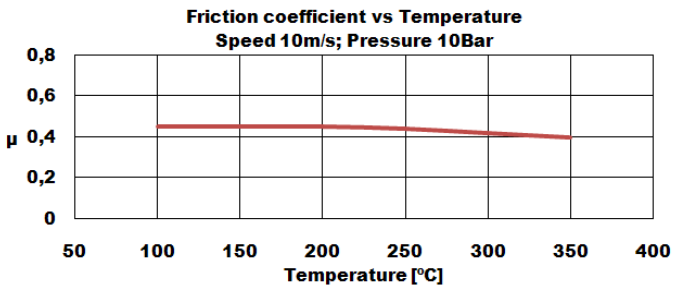
Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

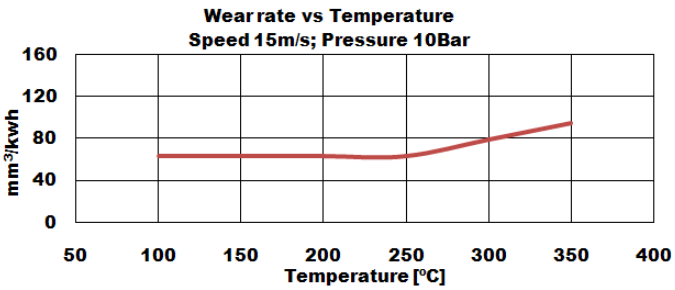
Others

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.