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science friction

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ID Material: N 3
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CR-2M

CR-2M is a rigid, semi-metal, molded friction material. It is composed basically of resins and rubber as a link system with frictional modifier agents, mineral fibres and fine copper shavings to enhance its strength. They help to establish the friction value by conducting heat from the operating surface. It is black with copper shavings. It has a medium and very stable friction coefficiency with low wear and excelent resitance to fading. CR-2M is fully cured material and is suitable for bonding and riveting.

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.35±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.40±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>350	°C

Physical properties

Hardness (DIN53505):	80±5	Shore-D
Specific Gravity (ASTM D792):	2.10±0.05	gr/cm3
Thermal Conductivity (ASTM E1952):	0.54±0.01	W/m°K

Mechanical properties

Tensile Strength (ASTM D638):	15±5	N/mm^2
Compressive Strength (ISO 844:2014):	126±5	N/mm^2
Shear Modulus (ASTM D2344-00):	2170±100	N/mm^2
Poisson Coefficient (ASTM D638):	0.24±0.03	
Young Modulus (ASTM D638):	5381±100	N/mm^2

Recommended Working Values

T° Max. Continuous Operation:	350	°C
T° Max. Intermittent Operation:	400	°C

Material type : Rigid material

Appearance / Formats

Applications

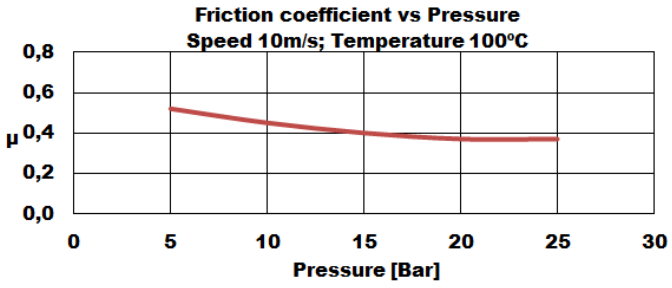
Forging machinery - Gear discs - Heavy-duty industrial machinery - Machinery Mining industries - Mining industries - Punch-die press blocks

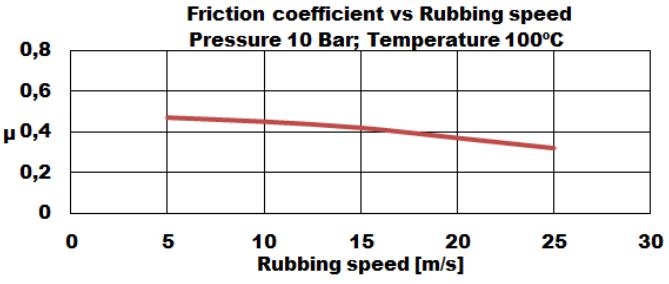
Price Level : € € €

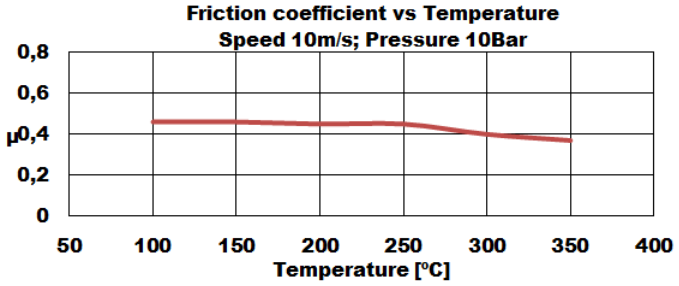
Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

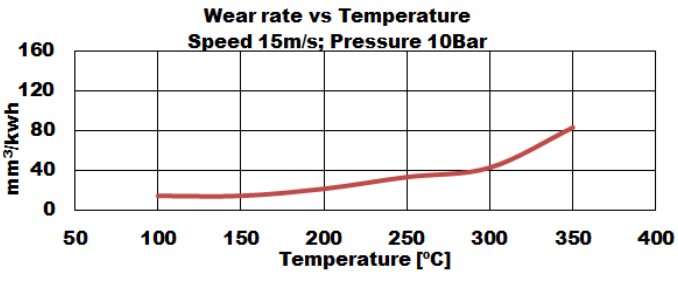
Others

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.