



ID MATERIAL: N 3
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REVISION: 5
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FRICTION MATERIAL:

CR-2M

> DESCRIPTION

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 coefficient with low wear and excellent resistance to fading. CR-2M is fully cured material and is suitable for bonding and riveting.

> MATERIAL TABLE

> FRICTION PROPERTIES	Value	Unit
Dynamic Friction Coefficient (@79N, 7m/s)	0.38±0.05	μ
Wear Rate (@79N, 7m/s)	35±10	mm ³ /kwh
T ^o Fading (@100N, 11.5m/s)	360±10	°C
> PHYSICAL PROPERTIES		
Hardness (DIN53505)	87±5	Shore-D
Specific Gravity (ASTM D792-91)	2±0.05	gr/cm ³
Ignition Loss (ASTM D-2524)	35±2	%
Acetone Extraction ISO2859-1	2±0.2	%
Thermal Conductivity (ASTM E1952-01)	0.54±0.01	w/m ^o K
> MECHANICAL PROPERTIES		
Tensile Strength (ASTM D638-10)	15±5	N/mm ²
Compressive Strength (UNE 53205)	126±5	N/mm ²
Poisson Coefficient	0.24±0.03	
Young Modulus (ASTMD638-10)	5381±100	N/mm ²
> RECOMMENDED WORKING VALUES		
T ^o Max. Continuous Operation	350	°C
T ^o Max. Intermittent Operation	380	°C

MATERIAL TYPE Rigid mould friction material

APPEARANCE



FORMATS



APPLICATIONS

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

RECOMMENDED MATING SURFACE

Perlitic cast iron, hardness HB150-200

OIL RESISTANT

Yes

RECOMMENDED ADHESIVE

Thermosetting adhesive

PRICE LEVEL

€ € €

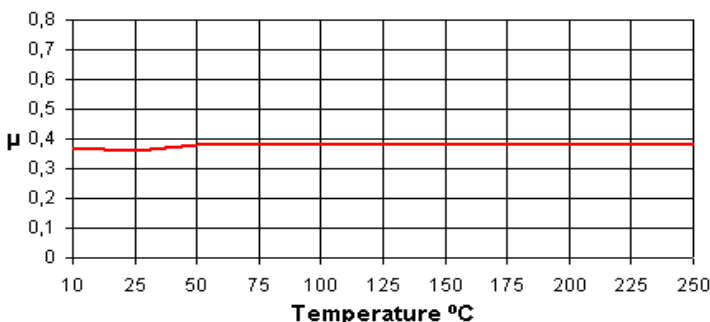
REACH (EC)1907/2006

Compliance

RoHS 2011/65/EU

Compliance

Friction coefficient (μ) vs Temperature (°C) @80psi 7m/s



> LEGEND



Discs



Sheets



Finished Parts



Bonded