

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 coefficient with low wear and excellent resistance 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, 100°C): | 0.40±0.05 | μ |
| Dynamic Friction Coefficient (10bar, 10m/s): | 0.45±0.05 | μ |
| Wear Rate (79N, 7m/s): | 35±10 | mm ³ /Kwh |
| T° Fading (100N, 11.5m/s): | 360±10 | °C |

Physical properties

| | | |
|---------------------------------------|-----------|--------------------|
| Hardness (DIN53505): | 85±5 | Shore-D |
| Specific Gravity (ASTM D792-91): | 2.10±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 ² 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 (ASTMD 638-10): | 5381±100 | N/mm ² |

Recommended Working Values

| | | |
|---------------------------------|-----|----|
| T° Max. Continuous Operation: | 350 | °C |
| T° Max. Intermittent Operation: | 380 | °C |

Material type : Rigid material

Appearance / Formats



Applications

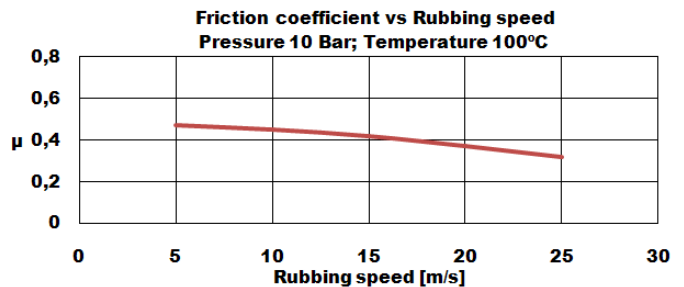
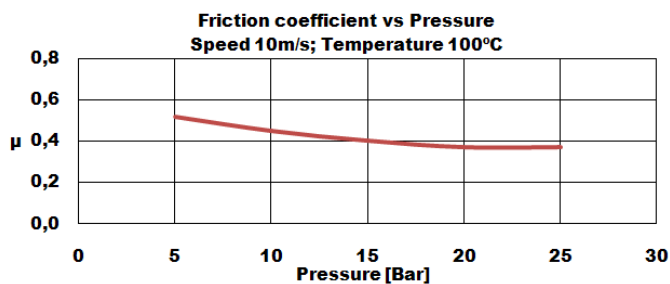
Forging machinery - Gear discs - Heavy-duty industrial machinery - Machinery Mining industries - Mining industries - Punch-die press blocks - Ring segments -

Price Level : € € €

Reach (EC)1907/2006 - RoHS 2011/65/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.