

ID Material: N 3  
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# MC3

MC3 is a rigid, semi-metal, moulded friction material. It is composed basically of resins and rubber as a link system with friction modifier agents, mineral fibers and fine copper shavings to enhance its strength. They help to establish the friction value conducting heat from the operating surface. It is black with copper shavings. **It has a high and very stable friction coefficient and excellent resistance to fading.** MC3 is fully cured material and is suitable for bonding and riveting.

## Material data

### Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.60±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.65±0.05	μ
Dynamic Friction Coefficient (10bar, 10m/s):	0.62±0.05	μ
Wear Rate (10bar, 15m/s):	100±10	mm <sup>3</sup> /Kwh
T° Fading (10bar, 10m/s):	>350	°C

### Physical properties

Hardness (DIN53505):	88±5	Shore-D
Specific Gravity (ASTM D792-91):	2±0.05	gr/cm <sup>3</sup>
Ignition Loss (ASTM D-2524):	36±2	%
Acetone Extraction ISO2859-1:	2±0.2	%
Thermal Conductivity (ASTM E1952-01):	0.54±0.01	W/m <sup>2</sup> K

### Mechanical properties

Tensile Strength (ASTM D638-10):	15±1	N/mm <sup>2</sup>
Compressive Strength (UNE 53205):	126±5	N/mm <sup>2</sup>
Poisson Coefficient:	0.23±0.03	
Young Modulus (ASTMD 638-10):	5300±100	N/mm <sup>2</sup>

### Recommended Working Values

T° Max. Continuous Operation:	250	°C
T° Max. Intermittent Operation:	355	°C

Material type : Rigid material

### Appearance / Formats



### Applications

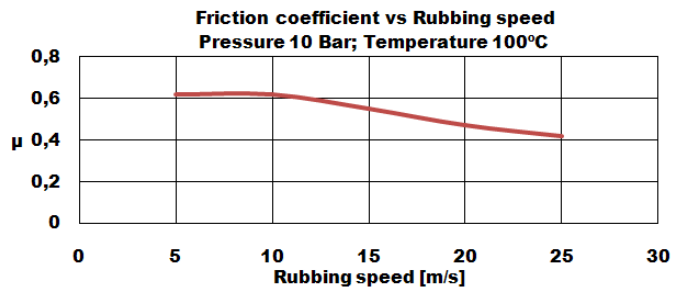
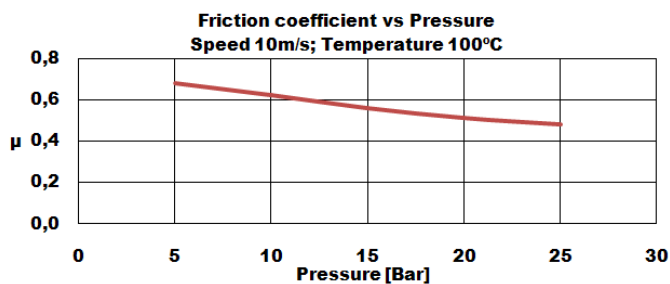
Forging machinery - Heavy duty static applications - Heavy-duty industrial machinery - Machinery Mining industries - Punch-die press blocks - Ring segments -

Price Level : € € €

Reach (EC)1907/2006 - 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.