

ID Material: N 3
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MC3

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

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:	see charts	
Wear Rate:	see charts	
T° Fading:	>400	°C

Physical properties

Hardness (DIN53505):	88±5	Shore-D
Specific Gravity (ASTM D792):	2±0.10	gr/cm3
Thermal Conductivity (ASTM E1952):	0.31±0.01	W/m²K

Mechanical properties

Tensile Strength (ASTM D638):	15±1	N/mm²
Compressive Strength (ISO 844:2014):	126±5	N/mm²
Shear Modulus (ASTM D2344-00):	2154±100	N/mm²
Poisson Coefficient (ASTM D638):	0.23±0.03	
Young Modulus (ASTM D638):	5300±100	N/mm²

Recommended Working Values

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

