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science friction

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|---|---|
| ID Material | 25 |
| Responsable | R. Antich |
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# FAG/M

FAG/M is a phenolic resin based formulation, developed for many different industrial applications. Its best features are high hardness values and a very high mechanical strength, with a medium / high friction values. It has copper and steel chips and fibers, which leads to good heat dissipation on temperature applications. FAG/M is fully cured, rigid and is totally suitable for bonding and riveting.

## Material data

### Friction properties

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|---|---|
| Static Friction Coefficient (@15bar, from the box) | 0.50±0.05 μ |
| Static Friction Coefficient (@15bar, 100ºC) | 0.52±0.05 μ |
| Dynamic Friction Coefficient (10bar, 10m/s) | 0.47±0.05 |
| Wear Rate (@10bar, 15m/s) | 30 (at 150 ºC) |
| Tº Fading (@10bar, 10m/s) | >350 °C |

### Physical properties

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|---|---|
| Hardness (DIN53505) | 80±5 Shore-D |
| Specific Gravity (ASTM D792) | 1.85±0.05 gr/cm3 |

### Mechanical properties

| | |
|---|---|
| Tensile Strength (ASTM D638) | 15.2±2 N/mm² |
| Compressive Strength (ISO 844:2014) | 160±5 N/mm² |
| Shear Modulus (ASTM D2344-00) | 2080±100 N/mm² |
| Poison coefficient (ASTM D638) | 0.25±0.03 |
| Young Modulus (ASTM D638) | 5200±100 N/mm² |

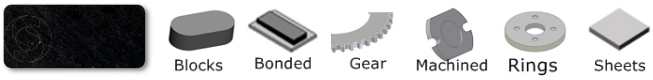
### Recommended Working Values

| | |
|---|---|
| Tº Max. Continuous Operation | 250 °C |
| Tº Max. Intermittent Operation | 350 °C |

### Material type

Rigid

### Appearance / Formats




### Applications

Brake blocks · Callipers for industrial applications · Electro-magnetic brakes · Forging machinery · Gear discs for industrial devices · Heavy-duty industrial machinery · Industral clutches · Rings segments for machinery · Rings segments for Presses

### Price Level

€ € €

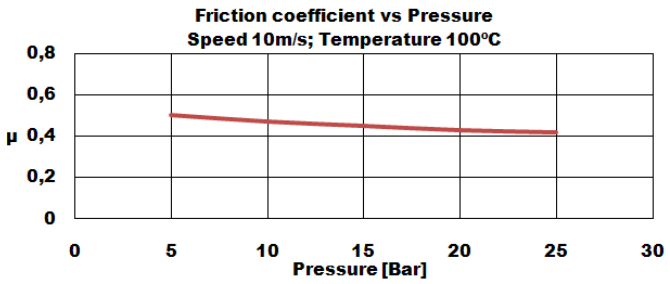
### Reach (EC)1907/2023 - RoHS 2015/863/EU

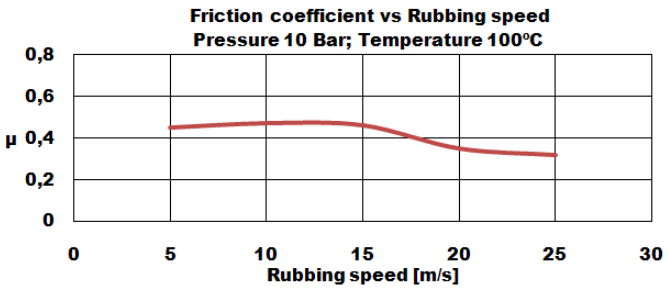
Compliance

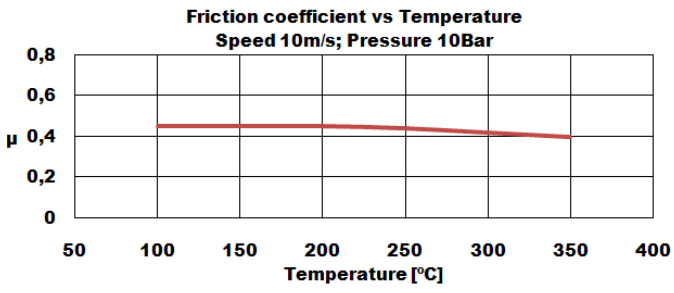
### Others

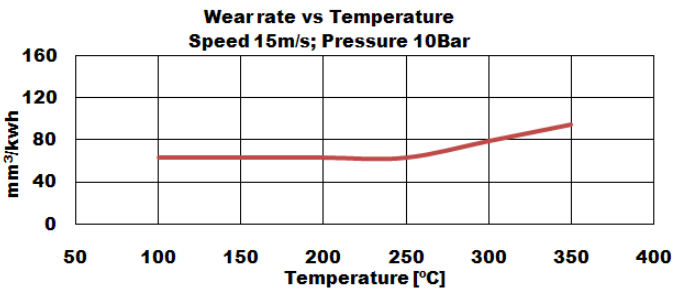
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|---|---|
| Recommended Mating Surface | Perlitic cast iron, hardness HB150-200 |
| Recommended Adhesives | Thermosetting adhesive |
| Oil Resistant | Yes |

### Charts




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.