

ID Material: 25  
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# FAG/M

FAG/M is developed for industrial applications, it is a rigid and molded friction material. The most known characteristics of this material it's hardness and mechanical strength. The material comprises mainly of phenolic resins with NBR bonding system, short fibres, friction modifiers, metal particles and fillers. FAG/M is fully cured and is suitable for bonding and riveting.

## Material data

### Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.50±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.52±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T° Fading:	>350	°C

### Physical properties

Hardness (DIN53505):	87±5	Shore-D
Specific Gravity (ASTM D792):	1.85±0.05	gr/cm3

### Mechanical properties

Tensile Strength (ASTM D638):	15.2±2	N/mm <sup>2</sup>
Compressive Strength (ISO 844:2014):	160±5	N/mm <sup>2</sup>
Shear Modulus (ASTM D2344-00):	2080±100	N/mm <sup>2</sup>
Poisson Coefficient (ASTM D638):	0.25±0.03	
Young Modulus (ASTM D638):	5200±100	N/mm <sup>2</sup>

### Recommended Working Values

T° Max. Continuous Operation:	250	°C
T° Max. Intermittent Operation:	350	°C

Material type : Rigid material

### Appearance / Formats



### Applications

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

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

