

ID Material: 27  
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# GHFM

GHFM is a soft-flexible friction material that performs with a high friction coefficient. Its flexibility allows it to work noiseless while producing a minimum wear on working surfaces. The material consists phenolic resins with a NBR rubber bonding system, short and brass fibres, friction modifiers and fillers. GHFM is fully cured and suitable for bonding and riveting.

## Material data

### Friction properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.65±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.50±0.05	μ
Dynamic Friction Coefficient (10bar, 10m/s):	0.50±0.05	μ
Wear Rate (79N, 7m/s):	45±10	mm <sup>3</sup> /Kwh
T° Fading (100N, 11.5m/s):	310±10	°C

### Physical properties

Hardness (DIN53505):	55±5	Shore-D
Specific Gravity (ASTM D792-91):	1.7±0.05	gr/cm <sup>3</sup>
Ignition Loss (ASTM D-2524):	45±2	%
Acetone Extraction ISO2859-1:	2±0.2	%
Thermal Conductivity (ASTM E1952-01):	0.33±0.01	W/m <sup>2</sup> K

### Mechanical properties

Tensile Strength (ASTM D638-10):	3±5	N/mm <sup>2</sup>
Compressive Strength (UNE 53205):	190±5	N/mm <sup>2</sup>
Poisson Coefficient:	0.34±0.03	
Young Modulus (ASTMD 638-10):	504±100	N/mm <sup>2</sup>

### Recommended Working Values

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

Material type : Flexible material

### Appearance / Formats



### Applications

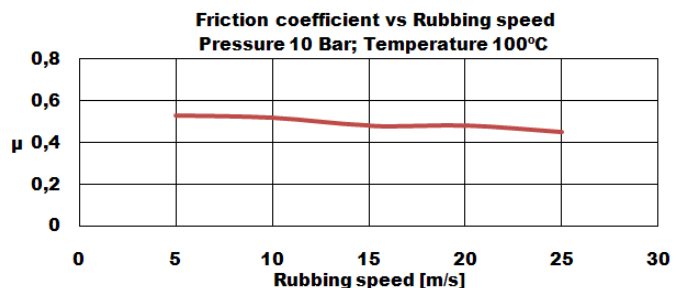
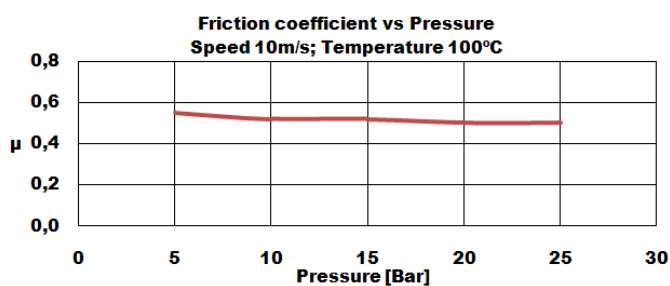
Callipers for industrial applications - Heavy loaded Winches and Cranes - Static brakes -

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.