

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:	see charts	
Wear Rate:	see charts	
T <sup>o</sup> Fading:	>350	°C

### Physical properties

Hardness (DIN53505):	55±5	Shore-D
Specific Gravity (ASTM D792):	1.7±0.05	gr/cm3
Thermal Conductivity (ASTM E1952):	0.33±0.01	W/m²K

### Mechanical properties

Tensile Strength (ASTM D638):	3±1	N/mm²
Compressive Strength (ISO 844:2014):	190±5	N/mm²
Shear Modulus (ASTM D2344-00):	190±10	N/mm²
Poisson Coefficient (ASTM D638):	0.34±0.03	
Young Modulus (ASTM D638):	504±100	N/mm²

### Recommended Working Values

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

Material type : Flexible material

### Appearance / Formats



Bonded



Rings



Sheets



Washers

### Applications

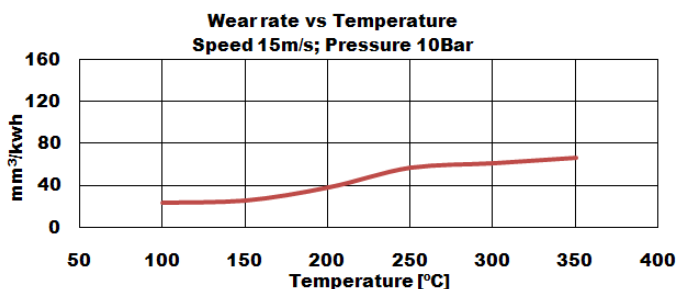
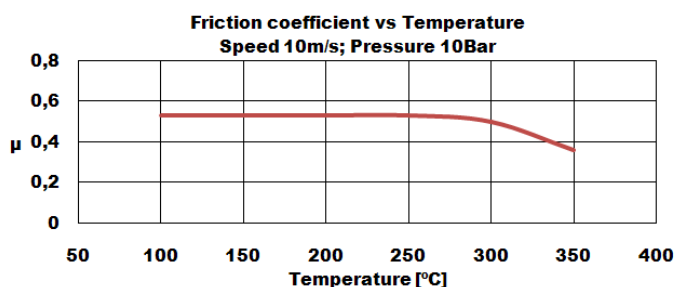
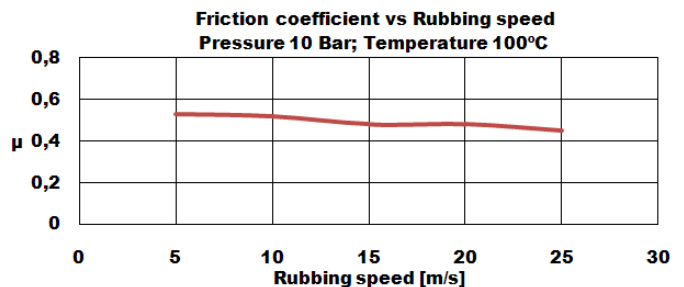
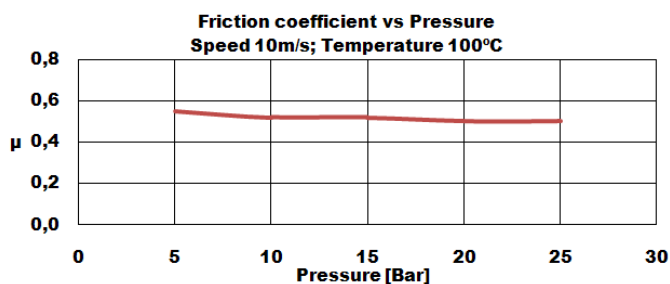
Callipers for industrial applications - Heavy loaded Winches and Cranes - Static brakes

Price Level : € € €

Reach (EC)1907/2023 - RoHS 2015/863/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.