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ID Material	27
Responsable	R. Antich
Revision	6
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GHFM

GHFM is a soft-flexible friction material that performs with a high friction coefficiency. 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

Static Friction Coefficient (@15bar, from the box)	0.65±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.50±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.50±0.05
Wear Rate (@10bar, 15m/s)	30 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>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/m°K

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
Poison coefficient (ASTM D638)	0.34±0.03
Young Modulus (ASTM D638)	504±100 N/mm²

Recommended Working Values

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

Material type

Flexible

Appearance / Formats



Applications

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

Price Level

€ € €

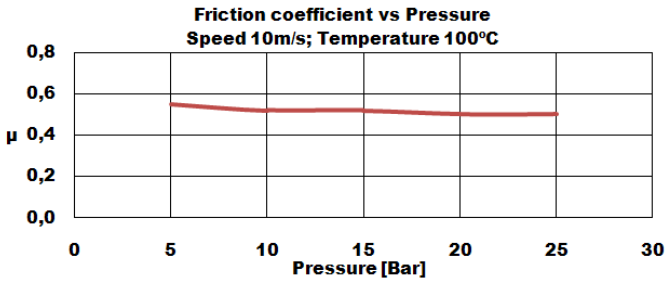
Reach (EC)1907/2023 - RoHS 2015/863/EU

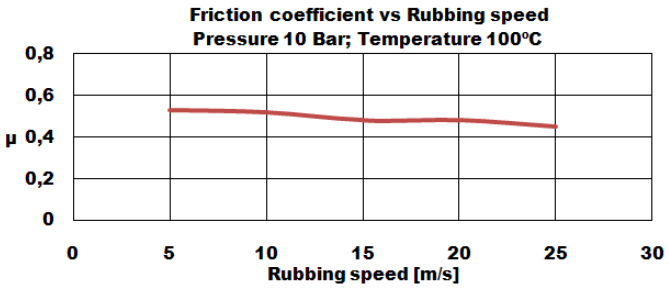
Compliance

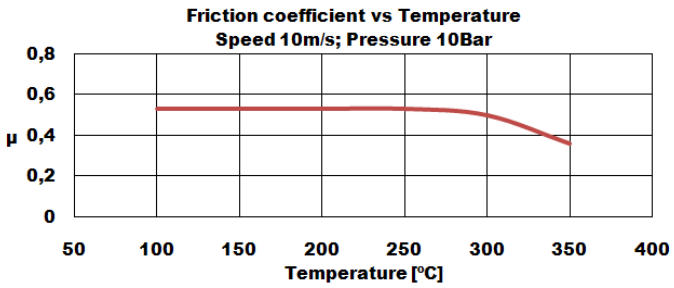
Others

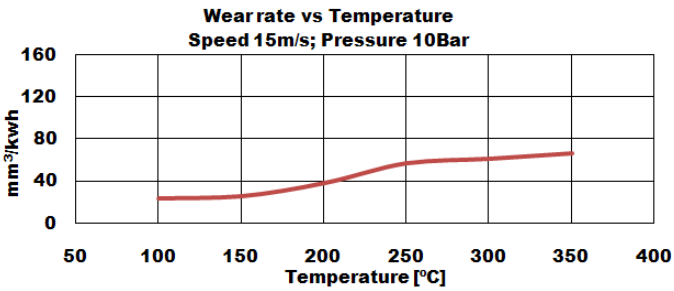
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.