

ID Material: 27
Rble: R. Antich
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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 ^o Fading:	>350	°C

Physical properties

Hardness (DIN53505):	55±5	Shore-D
Specific Gravity (ASTM D792):	1.7±0.05	gr/cm ³
Thermal Conductivity (ASTM E1952):	0.33±0.01	W/m ² K

Mechanical properties

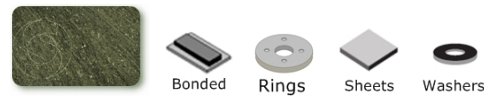
Tensile Strength (ASTM D638):	3±1	N/mm ²
Compressive Strength (ISO 844:2014):	190±5	N/mm ²
Shear Modulus (ASTM D2344-00):	190±10	N/mm ²
Poisson Coefficient (ASTM D638):	0.34±0.03	
Young Modulus (ASTM D638):	504±100	N/mm ²

Recommended Working Values

T ^o Max. Continuous Operation:	250	°C
T ^o 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)1907/2023 - RoHS 2015/863/EU : Compliance

Others

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

