

ID Material: 10 Rble: R.Antich Revision: 0

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FGR is developed for industrial applications, it is a rigid and molded green 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. FGR 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	
Tº 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/mm²
Compressive Strength (ISO 844:2014):	160±5	N/mm²
Shear Modulus (ASTM D2344-00):	2070±100	N/mm²
Poisson Coefficient (ASTM D638):	0.26±0.03	
Young Modulus (ASTM D638):	5220±100	N/mm²
Recommended Working Values		
T° Max. Continuous Operation:	250	°C
T° Max. Intermittent Operation:	350	°C

Material type: Rigid material

Appearance / Formats











Applications

Agricultural and bulding machinery - Brake blocks - Brake pads - Callipers for industrial applications - Cones segments for machinery - Gear discs for industrial devices - Miscellaneous industrial brakes / clutches

Price Level: € € €



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

Others

Perlitic cast iron, hardness Recommended Mating Surface: HB150-200

Recommended Adhesives: Thermosetting adhesive

Oil Resistant:

