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science friction

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ID Material: G5
Rble: R. Antich
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AFV

AFV is a very strong rigid molded friction material. The basic compounds that have been used are resins for the bonding system, organic and minerals fibres and friction modifiers. AFV is suitable for industrial applications with a medium friction coefficiency. It has good resistence to fading and wear. It is a fully cured material and is suitable for bonding and riveting.

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.45±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.42±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>350	°C

Physical properties

Hardness (DIN53505):	84±5	Shore-D
Specific Gravity (ASTM D792):	1.9±0.05	gr/cm3
Ignition Loss (ASTM D7348):	31±2	%
Acetone Extraction (ASTM D494):	1±0.2	%

Mechanical properties

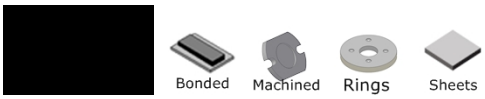
Tensile Strength (ASTM D638):	18±5	N/mm^2
Compressive Strength (ISO 844:2014):	140±5	N/mm^2
Shear Modulus (ASTM D2344-00):	2946±100	N/mm^2
Poisson Coefficient (ASTM D638):	0.195±0.03	
Young Modulus (ASTM D638):	7042±100	N/mm^2

Recommended Working Values

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

Material type : Rigid material

Appearance / Formats



Applications

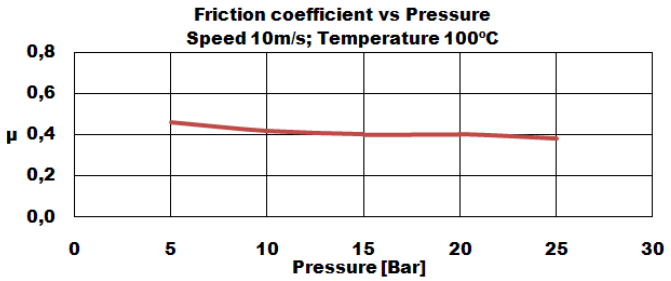
Brake pads - Heavy duty static applications - Holding Mechanical Structures - Rings segments for machinery - Yaw brakes

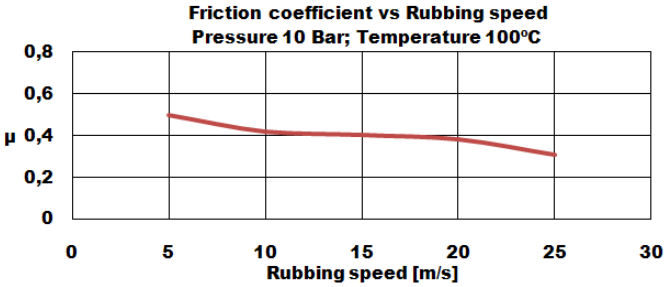
Price Level : € € €

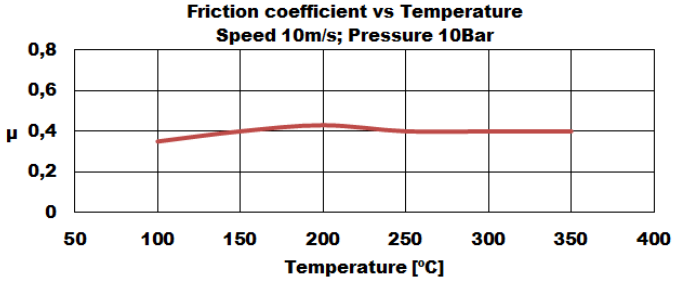
Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

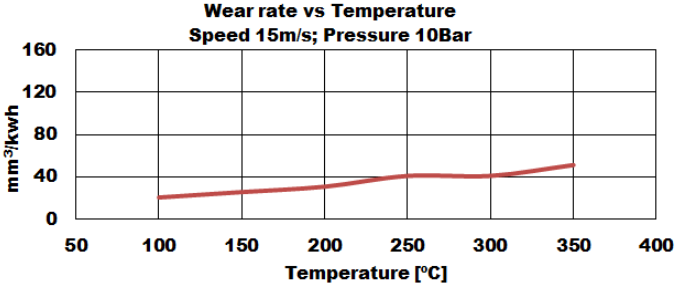
Others

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.