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science friction

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ID Material:
Rble: R. Antich
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FAG18/15

FAG18/15 is a green moulded friction material. The basic materials which are used are: phenol resins and rubber as a link system with frictional modifier agents, also contain aramind fibers and fine iron shavings to enhance its strength which help to establish the friction value by conducting heat from the operating surface. Offers excelent wear and temperature resistance, It is rigid material with good hardness and mechanical strength. FAG18/15 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, 100ºC):	0.45±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>450	°C

Physical properties

Hardness (DIN53505):	80±5	Shore-D
Specific Gravity (ASTM D792):	2.10±0.1	gr/cm3

Mechanical properties

Tensile Strength (ASTM D638):	15,2±2	N/mm^2
Compressive Strength (ISO 844:2014):	160±5	N/mm^2
Shear Modulus (ASTM D2344-00):	2100±100	N/mm^2
Poisson Coefficient (ASTM D638):	0.26±0.03	
Young Modulus (ASTM D638):	5220±100	N/mm^2

Recommended Working Values

T° Max. Continuous Operation:	400	°C
T° Max. Intermittent Operation:	>450	°C

Material type : Rigid material

Appearance / Formats

Applications

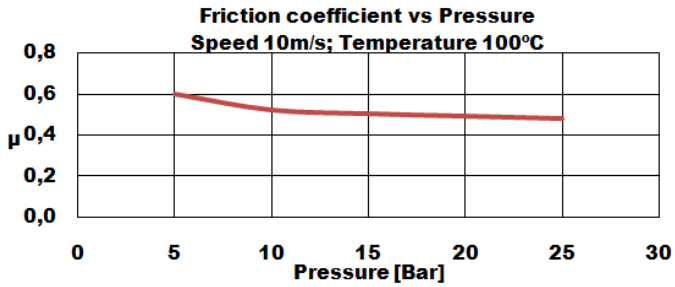
Callipers for industrial applications - Clutch buttons - Friction washers - Heavy loaded Winches and Cranes - Heavy vehicle clutches - Heavy-duty industrial machinery

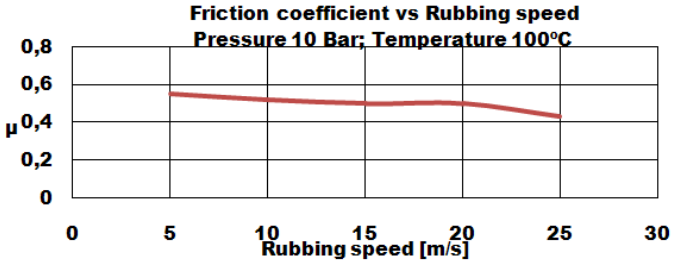
Price Level : € € €

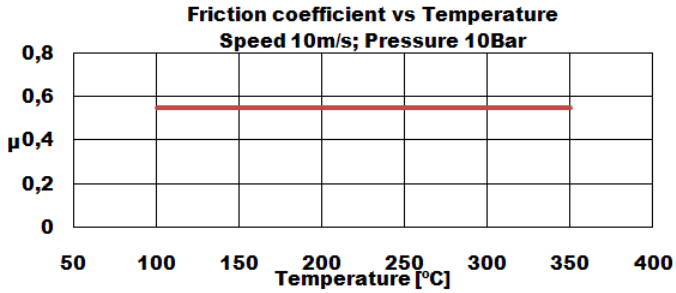
Reach (EC)1907/2023 - RoHS 2015/863/EU : Yes

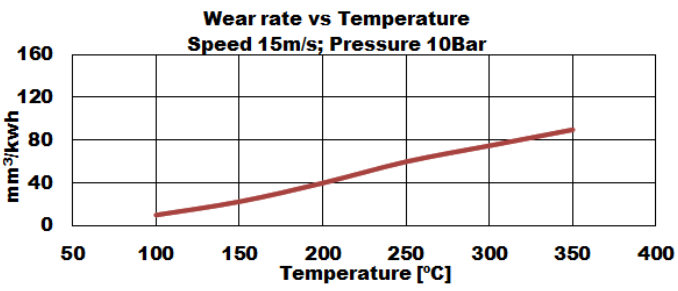
Others

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.