

ID Material: 33
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F410

F410 is a grey molded friction material enhance with, metallic components in order to increase it resistance when is its exposed to high temperatures, and glass fiber for better strength resistance. Moreover, there are inside resin, rubbers, fibers (mineral and metallic) and asbestos free. We manufacturing moulded parts with specific mould, at high presure and temperature.

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.5±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.50±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T ² Fading:	>350	°C

Physical properties

Hardness (DIN53505):	75±5	Shore-D
Specific Gravity (ASTM D792):	1.9±0.1	gr/cm3
Acetone Extraction (ASTM D494):	35	%
Thermal Conductivity (ASTM E1952):	0.28±0.1	W/m°K

Mechanical properties

Tensile Strength (ASTM D638):	14±5	N/mm ²
Compressive Strength (ISO 844:2014):	75±5	N/mm ²
Shear Modulus (ASTM D2344-00):	2418±100	N/mm ²
Poisson Coefficient (ASTM D638):	0.22±0.03	
Young Modulus (ASTM D638):	5900±100	N/mm ²

Recommended Working Values

T° Max. Continuous Operation:	250	°C
T° Max. Intermittent Operation:	380	°C
Max. pressure:	100	Bar
Max. Rubbing Speed:	75	m/s

Material type : Rigid material

Appearance / Formats



Bonded



Machined



Shoes

Applications

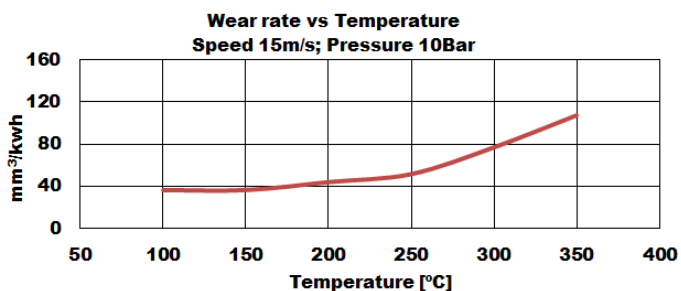
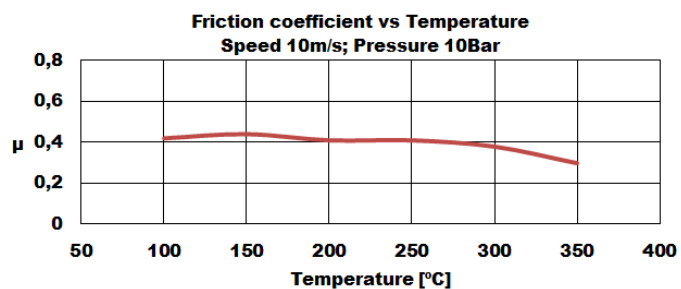
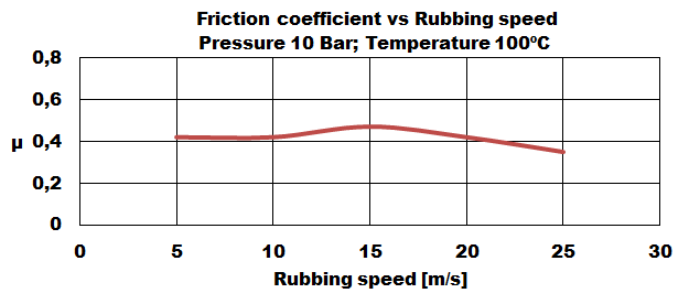
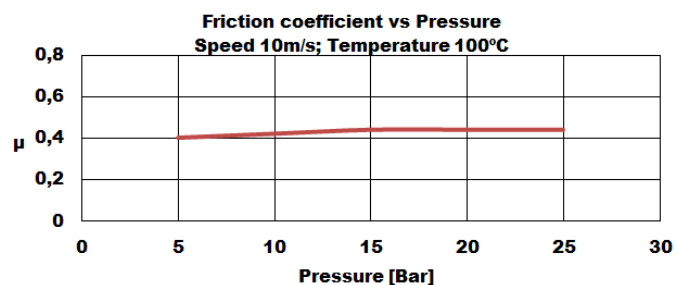
Agricultural and bulding machinery - Drum Brakes - Industrial drum and brand brakes - Miscellaneous industrial brakes / clutches

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.