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science friction

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ID Material	86
Responsable	R. Antich
Revision	0
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TVS AF 21

TVS AF 21 is an Asbestos free non-metallic Flexible friction material available in roll (coil) form. TVS AF 21 is silent in operation and excellent wear proprieties.Material composition consists of binders, glass fibers, friction modifiers and fillers.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.50±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.50±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.40±0.05
Wear Rate (@10bar, 15m/s)	40 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>300 °C

Physical properties

Hardness (DIN53505)	55±10 Shore-D
Specific Gravity (ASTM D792)	1.9±0.1 gr/cm3

Mechanical properties

Compressive Strength (ISO 844:2014)	150±10 N/mm²
Ultimate Shear Strenght (ASTM D732)	2.1 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	250 °C
Tº Max. Intermittent Operation	350 °C
Max. Pressure	14 Bar

Material type

Flexible

Appearance / Formats



Applications

Drum Brakes · Friction washers · Industrial drum and brand brakes · Miscellaneous industrial brakes / clutches

Price Level

€ € €

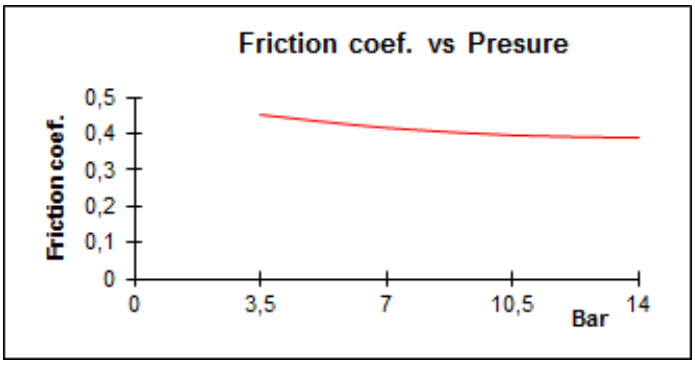
Reach (EC)1907/2023 - RoHS 2015/863/EU

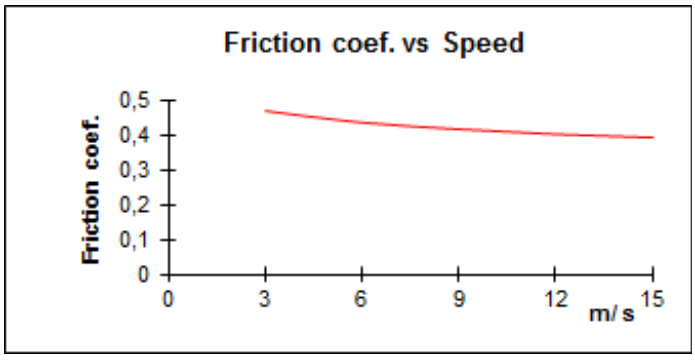
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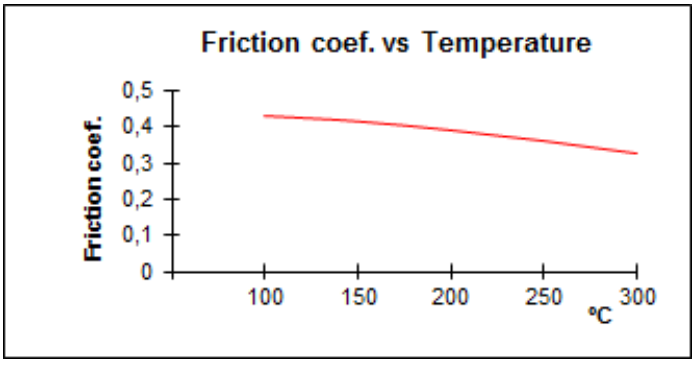
Others

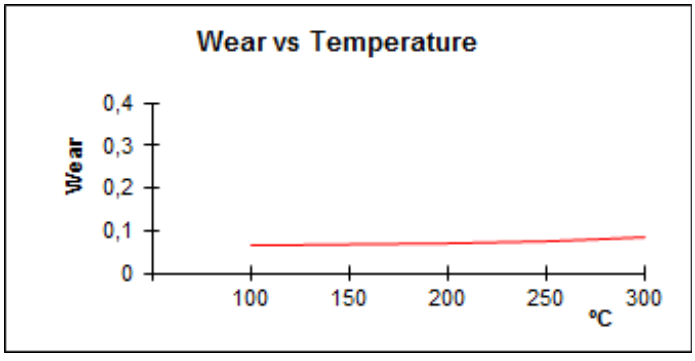
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive

Charts









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.