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science friction

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ID Material	35
Responsable	R. Antich
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FAG/TW

FAG/TW is a green moulded friction material. The basic materials which are used are: phenol resins and a NBR as the bonding system, organic and mineral fibres and friction modifiers. Offers high wear and temperature resistance, It is rigid material with good hardness and mechanical strength. FAG/TW fully cured and is suitable for bonding and riveting.

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)	0.47±0.05
Wear Rate (@10bar, 15m/s)	20 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>350 °C

Physical properties

Hardness (DIN53505)	90±5 Shore-D
Specific Gravity (ASTM D792)	2.00±0.05 gr/cm3
Ignition Loss (ASTM D7348)	40±2 %
Acetone Extraction (ASTM D494)	2±0.2 %
Thermal Conductivity (ASTM E1952)	0.61 W/m°K

Mechanical properties

Tensile Strength (ASTM D638)	14±5 N/mm²
Compressive Strength (ISO 844:2014)	170±5 N/mm²
Poison coefficient (ASTM D638)	0.24±0.03
Young Modulus (ASTM D638)	7500±200 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	300 °C
Tº Max. Intermittent Operation	400 °C

Material type

Rigid

Appearance / Formats



Applications

Forging machinery · Gear discs for industrial devices · Heavy loaded Winches and Cranes · Heavy-duty industrial machinery · Punch-die press blocks · Rings segments for machinery · Torque limitator

Price Level

€ € €

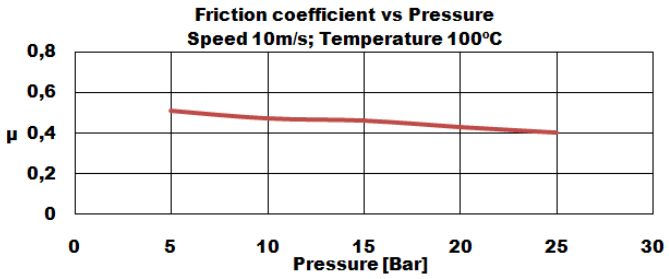
Reach (EC)1907/2023 - RoHS 2015/863/EU

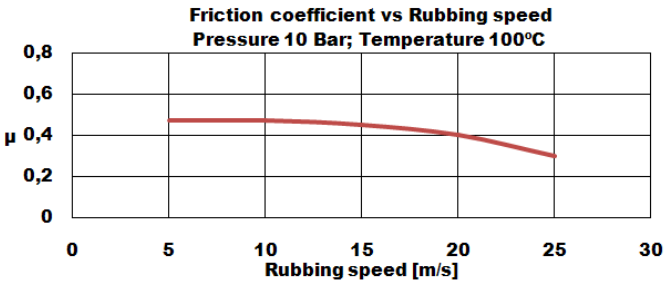
Compliance

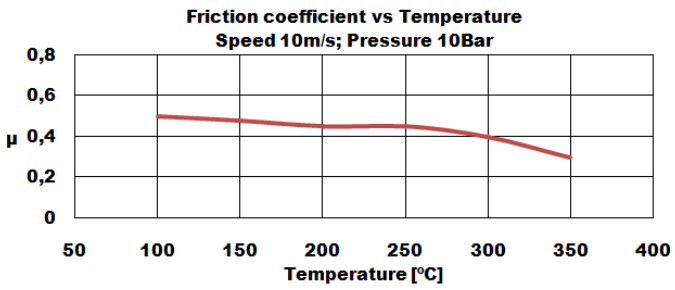
Others

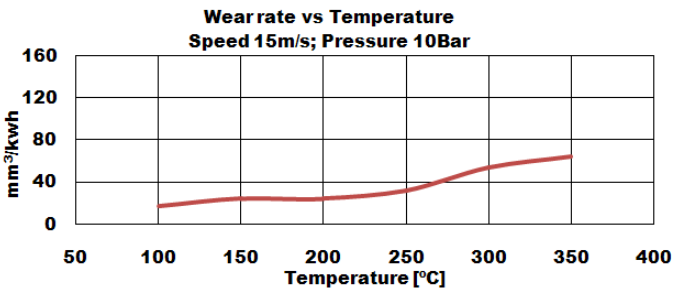
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.