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science friction

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ID Material	1x
Responsable	R. Antich
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JTC

JTC is an especial woven material that is designed to work at high temperatures and low wear rate. It is based on VH-03 and has been reinforced with extra copper for improve friction propieties. JTC material can disipate quickly head temterature, has a very stable friction coefficient. The cooper extra material with its alloy backing matched to a performance pressure plate will provide smooth engagement and extended life.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.45±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.45±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.40±0.05
Wear Rate (@10bar, 15m/s)	35 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>400 °C

Physical properties

Hardness (DIN53505)	85±5 Shore-D
Specific Gravity (ASTM D792)	2.2±0.1 gr/cm3
Ignition Loss (ASTM D7348)	40±2 %
Acetone Extraction (ASTM D494)	2±0.2 %

Mechanical properties

Compressive Strength (ISO 844:2014)	145±5 N/mm²
Burst Resistant (200 x 137 x 3,5)@200ºC	14000±100 RPM

Recommended Working Values

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

Material type

Yarn

Appearance / Formats



Bonded

Rings

Applications

Heavy vehicle clutches · Trucks clutches · Vehicles clutches

Price Level

€ € €

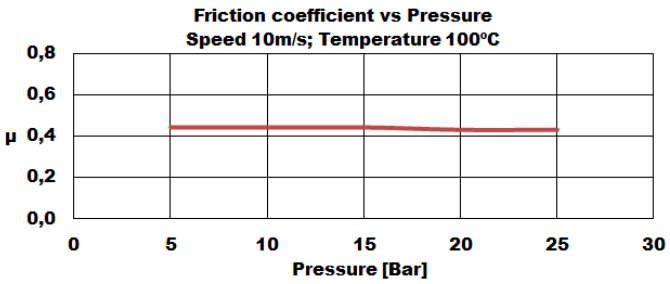
Reach (EC)1907/2023 - RoHS 2015/863/EU

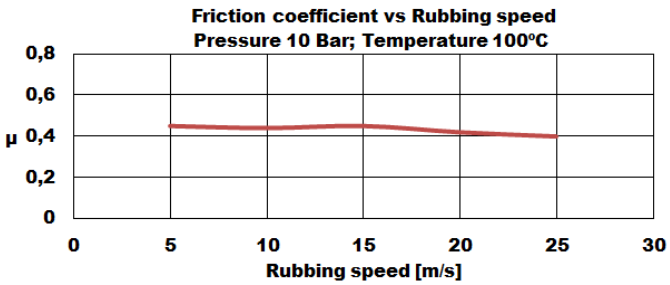
Compilance

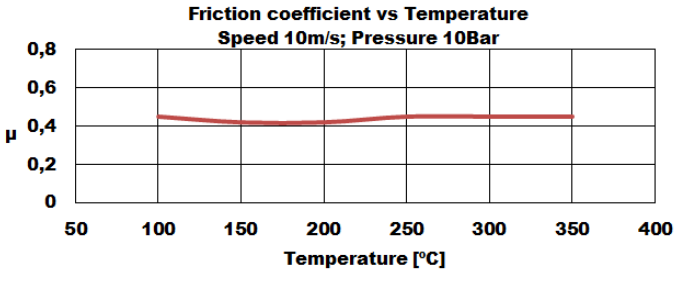
Others

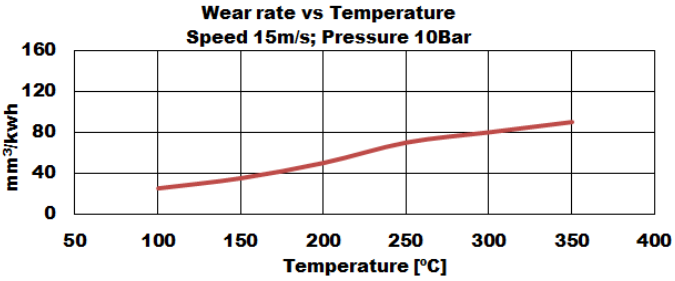
Recommended Mating Surface	Pertitic Cast iron, Hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.