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science friction

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ID Material	i1
Responsable	R. Antich
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RWT

RWT is a grey metal based friction material which is able to perform at very high temperatures. It offers good heat dissipation and high compression strength characteristics. RWT is composed basically of resins as a link system, frictional modifier agents, mineral and organic fibres. It has a high and very stable friction coefficient with low rate of wear and excellent resistance to fading. It is fully cured and suitable for bonding and riveting.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.40±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.43±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.60±0.05
Wear Rate (@10bar, 15m/s)	100 (at 150ºC)
Tº Fading (@10bar, 10m/s)	>400 °C

Physical properties

Hardness (DIN53505)	87±5 Shore-D
Specific Gravity (ASTM D792)	2.9±0.1 gr/cm3
Ignition Loss (ASTM D7348)	5±2 %
Thermal Conductivity (ASTM E1952)	1.53±0.01 W/m°K

Mechanical properties

Tensile Strength (ASTM D638)	35±5 N/mm²
Compressive Strength (ISO 844:2014)	185±5 N/mm²
Shear Modulus (ASTM D2344-00)	6650±100 N/mm²
Poison coefficient (ASTM D638)	0.22±0.03
Young Modulus (ASTM D638)	16220±100 N/mm²

Recommended Working Values

Tº Max. Continuous Operation	400 °C
Tº Max. Intermittent Operation	450 °C

Material type

Rigid

Appearance / Formats



Applications

Brake pads · Heavy-duty industrial machinery · Industrial clutches · Machinery Mining industries · Rings segments for machinery · Rotor Brake

Price Level

€ € €

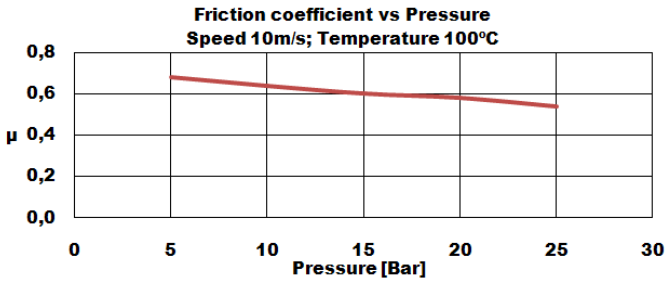
Reach (EC)1907/2023 - RoHS 2015/863/EU

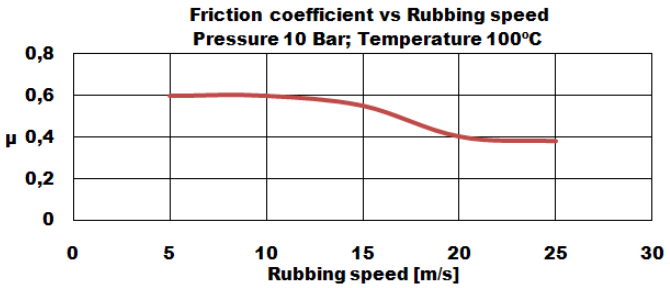
Compliance

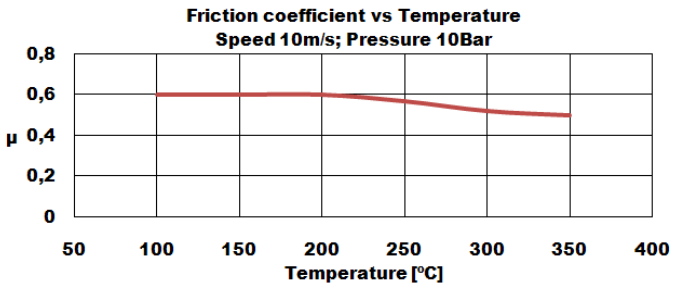
Others

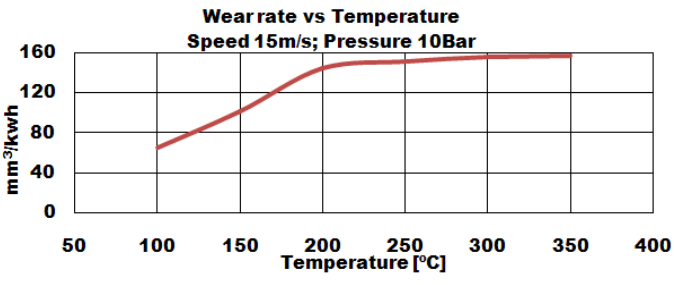
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.