Frenos Sauleda s.a.
science friction

Barri del migdia S/N - E 08396
Sant Cebrià de Vallalta (Barcelona - Spain)
sauleda@frenossauleda.com
Tel. (+34) 93 763 11 20 Fax (+34) 93 763 10 61

ID Material	i2
Responsable	R.Antich
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RWS

RWS is a grenn-grey metal based friction material which is able to perform at very high temperatures. It offers good heat dissipation and high compression strength characteristics. RWS is composed basically of resins as a link system, frictional modifier agents, mineral fibers and fine copper shavings to enhance its thermal strength. It has a high and very stable friction coefficiency and excellent resistance to fading. RWS is fully cured material and is suitable for bonding & rivetting

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.40±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.45±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.65±0.05
Wear Rate (@10bar, 15m/s)	70 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>400 °C

Physical properties

Hardness (DIN53505)	85±5 Shore-D
Specific Gravity (ASTM D792)	2.8±0.1 gr/cm3
Ignition Loss (ASTM D7348)	5±1 %
Thermal Conductivity (ASTM E1952)	1.50±0.10 W/m°K

Mechanical properties

Tensile Strength (ASTM D638)	35±5 N/mm²
Compressive Strength (ISO 844:2014)	185±10 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 · Callipers for industrial applications · Heavy vehicle clutches · Heavy-duty industrial machinery · Rotor Brake

Price Level

€ € €

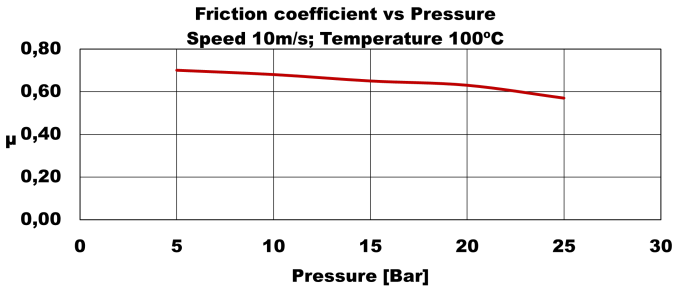
Reach (EC)1907/2023 - RoHS 2015/863/EU

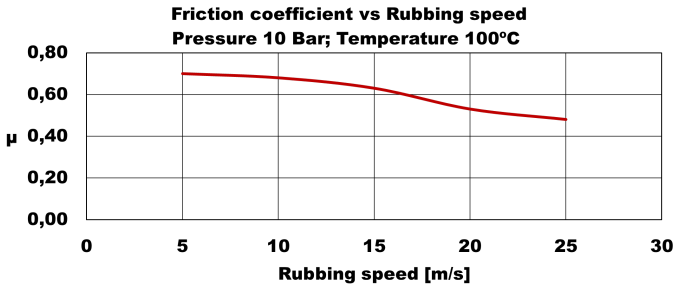
Compliance

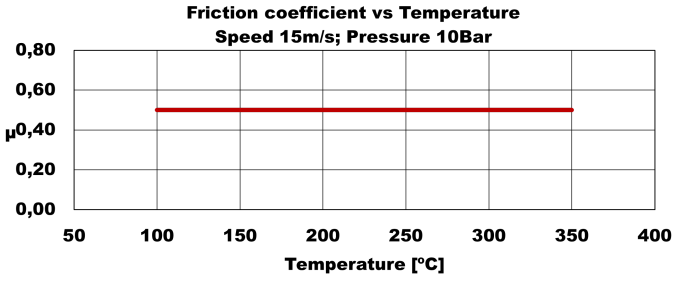
Others

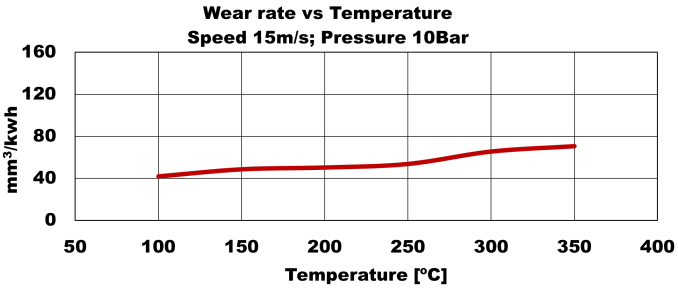
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.