

ID Material: i2
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RWS

RWS is a green-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 coefficient and excellent resistance to fading. RWS is fully cured material and is suitable for bonding & rivetting

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.40±0.05	μ
Static Friction Coefficient (15bar, 100°C):	0.45±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T° Fading:	>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

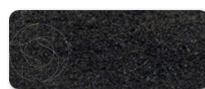
Tensile Strength (ASTM D638):	35±5	N/mm ²
Compressive Strength (ISO 844:2014):	185±10	N/mm ²

Recommended Working Values

T° Max. Continuous Operation:	400	°C
T° Max. Intermittent Operation:	450	°C

Material type : Rigid material

Appearance / Formats



Sheets Machined Bonded

Applications

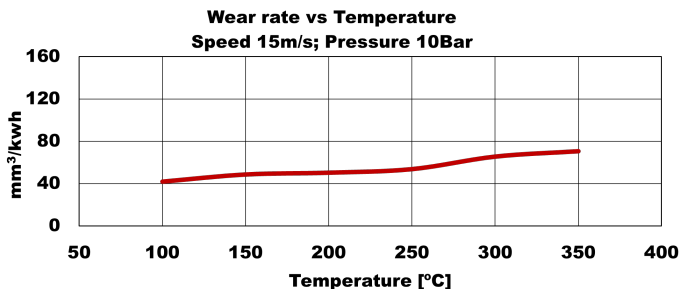
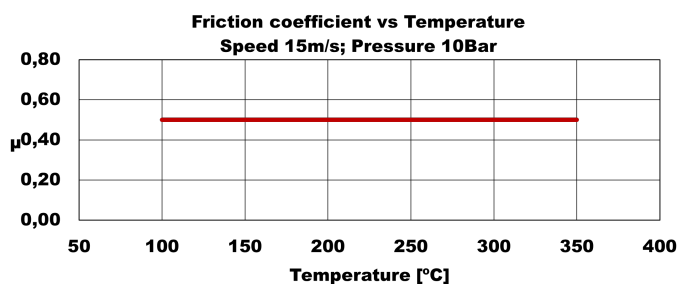
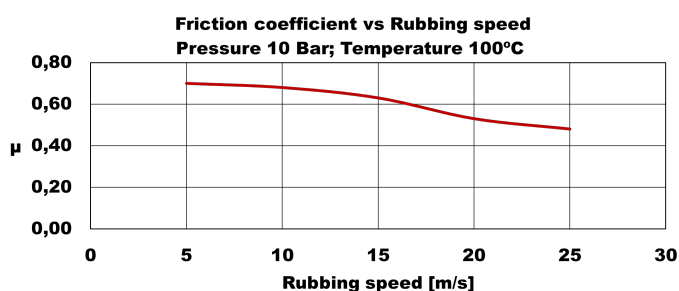
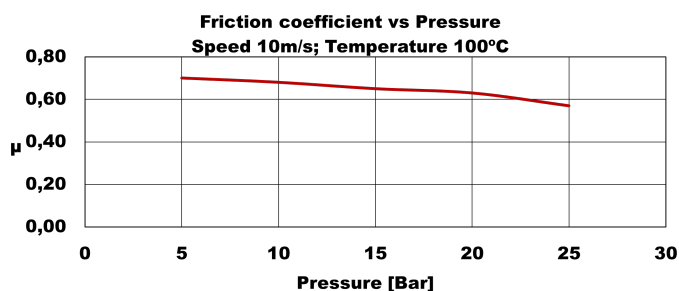
Brake pads - Callipers for industrial applications - Heavy vehicle clutches - Heavy-duty industrial machinery - Rotor Brake

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



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.