ID Material: i1
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Revision: 5
Date: 17/03/2017

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 propieties (according graphics)

Static Friction Coefficient (15bar, from 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	μ
Wear Rate (79N, 7m/s):	60±10	mm^3/Kwh
Tº Fading (100N, 11.5m/s):	400±10	°C

Physical properties

Hardness (DIN53505):	87±5	Shore-D
Specific Gravity (ASTM D792-91):	2.7±0.05	gr/cm3
Ignition Loss (ASTM D-2524):	5±2	%
Acetone Extraction ISO2859-1:	1.5±0.2	%
Thermal Conductivity (ASTM E1952-01):	1.53±0.01	W/m°K

Mechanical properties

Tensile Strength (ASTM D638-10):	35±5	N/mm^2
Compressive Strength (UNE 53205):	185±5	N/mm^2
Poisson Coefficient:	0.22±0.03	
Young Modulus (ASTMD 638-10):	16220±100	N/mm^2

Recommended Working Values

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

Material type : Rigid material
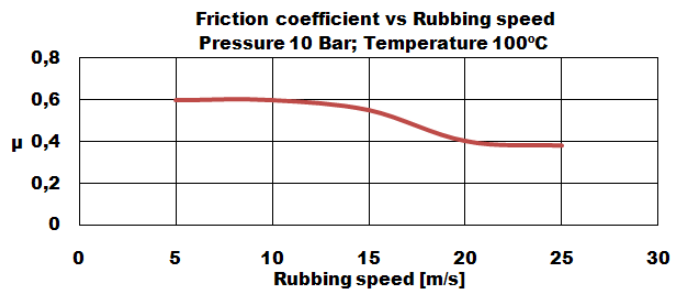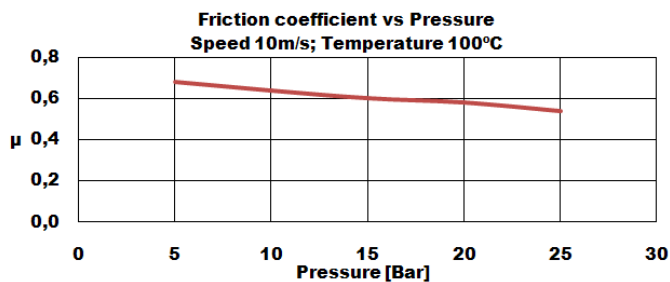
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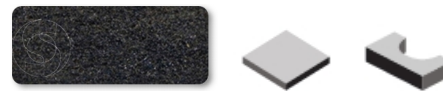
Applications

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

Price Level : € € €

Reach (EC)1907/2006 - RoHS 2011/65/EU : Compliance

Others

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

Friction coefficient vs Pressure
Speed 10m/s; Temperature 100ºC

Friction coefficient vs Rubbing speed
Pressure 10 Bar; Temperature 100ºC

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.