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science friction

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ID Material: 94
Rble: R. Antich
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V2000R

V2000R is based on G95, this material has been developed in order to satisfy the demands of high temperature applications. The resin friction formula has been modified in such way to reduce its organic content. V2000R will resist higher operating temperatures than its predecessors whilst maintaining both frictional stability and low rate of wear. Also, the incorporation of a new specialist in yarn adds further merits in terms of physical strength to the facings, now with standing a 20% increase in rotational speed before burst. It is a rigid woven friction material with low organic content, this property helps to increase operation at high temperatures maintaining friction stability and low rate of wear.

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.50±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.46±0.05	µ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
Tº Fading:	>350	°C

Physical properties

Hardness (DIN53505):	80±5	Shore-D
Specific Gravity (ASTM D792):	2.1±0.10	gr/cm3
Ignition Loss (ASTM D7348):	30±0.2	%
Thermal Conductivity (ASTM E1952):	0.30±0.03	W/m°K

Mechanical properties

Compressive Strength (ISO 844:2014):	120±5	N/mm^2
Burst Resistant (200 x 137 x 3,5) 200°C:	13500±100	RPM

Recommended Working Values

T° Max. Continuous Operation:	250	°C
T° Max. Intermittent Operation:	350	°C

Material type : Woven yarn

Appearance / Formats

Rings

Applications

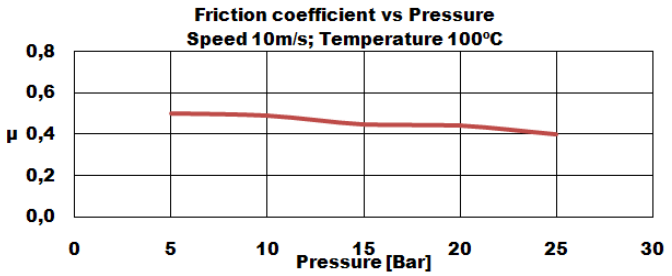
Agricultural and bulding machinery - Industrial clutches - Torque limitator

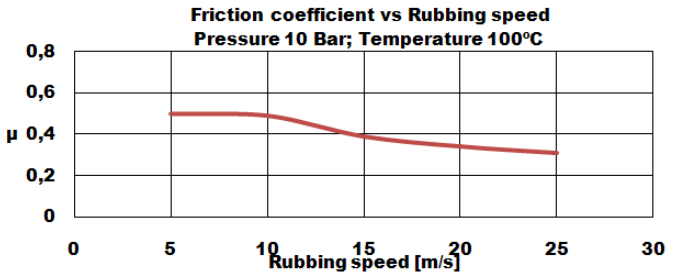
Price Level : € € €

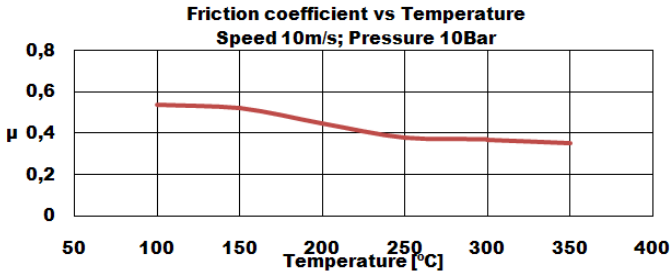
Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

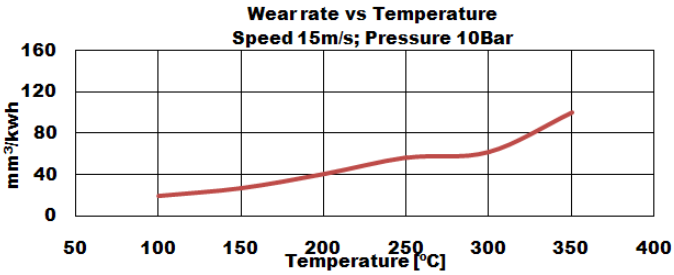
Others

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.