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science friction

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ID Material	94
Responsable	R. Antich
Revision	6
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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

Static Friction Coefficient (@15bar, from the box)	0.50±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.46±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.50±0.05
Wear Rate (@10bar, 15m/s)	30 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>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/mm²
Burst Resistant (200 x 137 x 3,5)@200ºC	13500±100 RPM

Recommended Working Values

Tº Max. Continuous Operation	250 °C
Tº Max. Intermittent Operation	350 °C

Material type

Yarn

Appearance / Formats



Rings

Applications

Agricultural and bulding machinery · Industrial clutches · Torque limitator

Price Level

€ € €

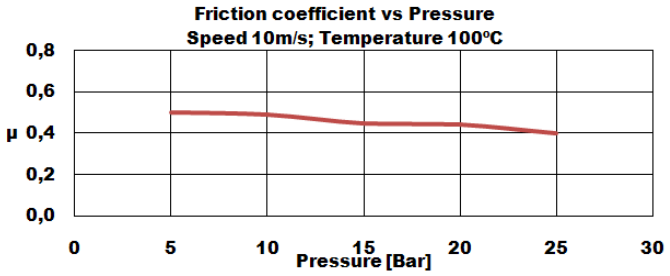
Reach (EC)1907/2023 - RoHS 2015/863/EU

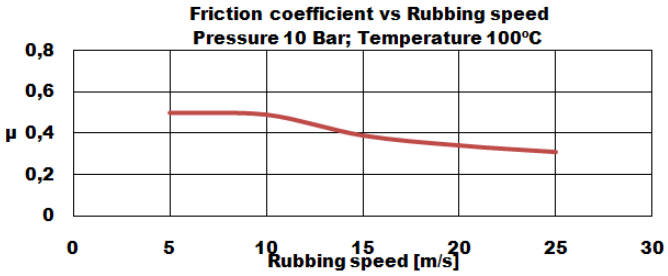
Compliance

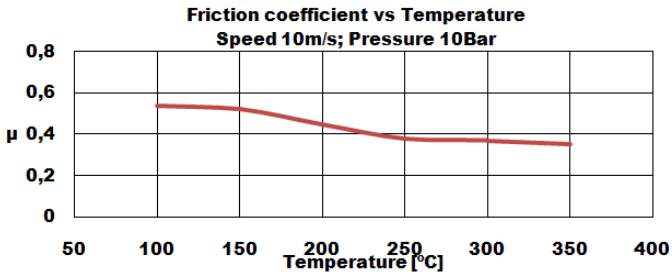
Others

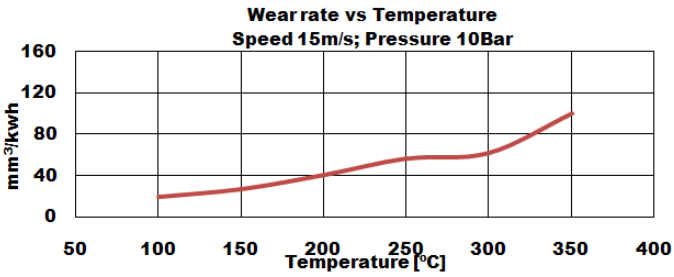
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.