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	38
Responsable	R. Antich
Revision	6
Revision date	06/10/2022

HCC

HCC is a special woven material that is designed to work at high temperatures and has a low rate of wear. It is based on VH-03 and has been reinforced with extra copper to increase friction perform. HCC can dissipate heat, has very stable friction coefficient and steady work at high temperatures with minimal wear. The Copper Plus material with its alloy backing matched to a performance pressure plate will provide smooth engagement and extended life.

Material data

Friction properties

Static Friction Coefficient (@15bar, from the box)	0.45±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.45±0.05 μ
Dynamic Friction Coefficient (10bar, 10m/s)	0.45±0.05
Wear Rate (@10bar, 15m/s)	35 (at 150 ºC)
Tº Fading (@10bar, 10m/s)	>400 °C

Physical properties

Hardness (DIN53505)	85±5 Shore-D
Specific Gravity (ASTM D792)	1.9±0.05 gr/cm3
Ignition Loss (ASTM D7348)	40±2 %
Thermal Conductivity (ASTM E1952)	0.36±0.03 W/m°K

Mechanical properties

Compressive Strength (ISO 844:2014)	140±5 N/mm²
Burst Resistant (200 x 137 x 3,5)@200ºC	14000±100 RPM

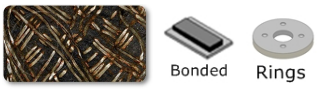
Recommended Working Values

Tº Max. Continuous Operation	250 °C
Tº Max. Intermittent Operation	400 °C

Material type

Yarn

Appearance / Formats



Applications

Heavy vehicle clutches · Trucks clutches · Vehicles clutches

Price Level

€ € €

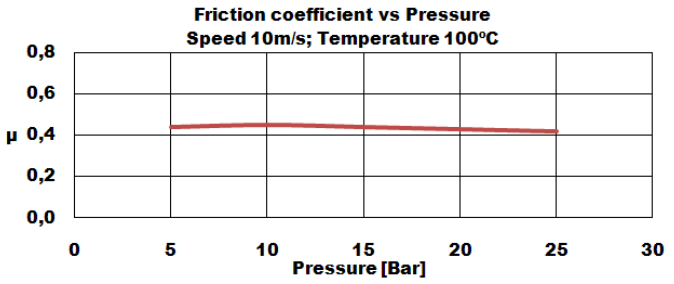
Reach (EC)1907/2023 - RoHS 2015/863/EU

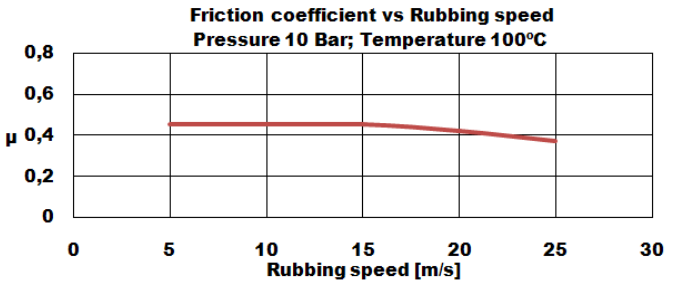
Compliance

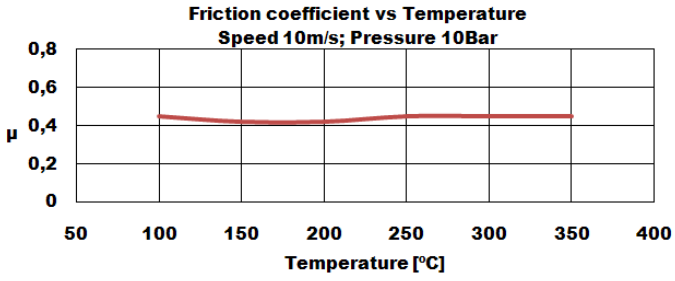
Others

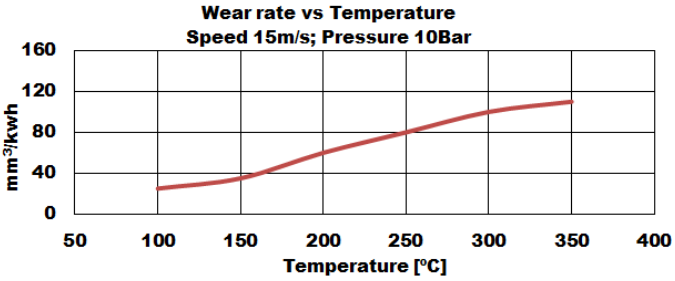
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive
Oil Resistant	Yes

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.