

ID Material: 38
Rble: R. Antich
Revision: 6
Last updated: 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 (according graphics)

Static Friction Coefficient (15bar, from box):	0.45±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):	1.9±0.05	gr/cm3
Ignition Loss (ASTM D7348):	40±2	%
Thermal Conductivity (ASTM E1952):	0.36±0.03	W/m²K

Mechanical properties

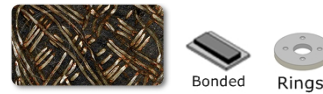
Compressive Strength (ISO 844:2014):	140±5	N/mm²
Burst Resistant (200 x 137 x 3,5) 200°C:	14000±100	RPM

Recommended Working Values

T° Max. Continuous Operation:	250	°C
T° Max. Intermittent Operation:	400	°C

Material type : Woven yarn

Appearance / Formats



Applications

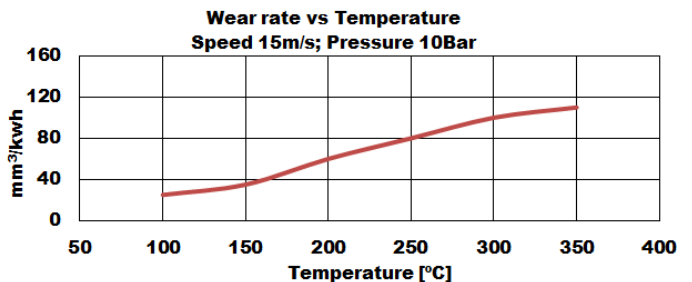
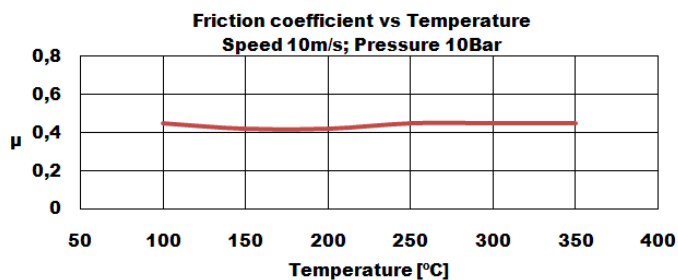
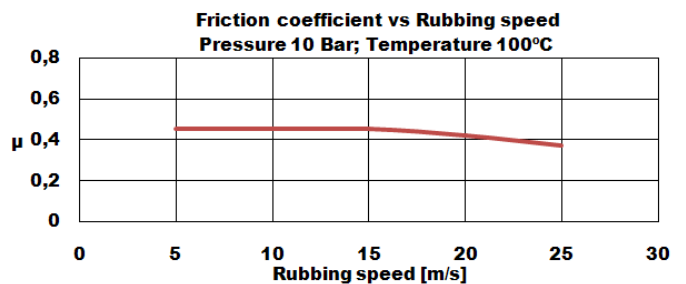
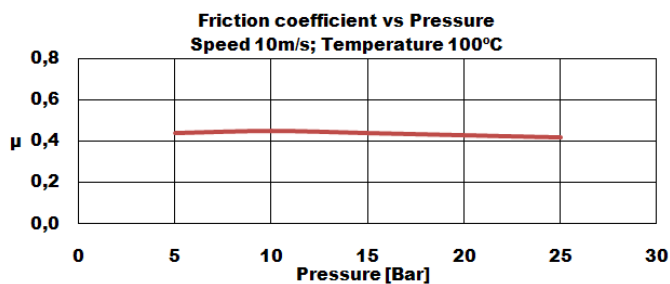
Heavy vehicle clutches - Trucks clutches - Vehicles clutches

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



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.