Frenos Sauleda s.a.
science friction

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ID Material: 3
Rble: R. Antich
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HDS57

HDS57 is a rigid woven friction material with a medium friction coefficient. HDS57 is the Sauleda heavy duty material for clutches. Developed in 1997, manufactured with draft yarn and aramid fibres. It is recommended for commercial vehicles, especially when thermal conditions are high.

Material data

Friction Properties (according graphics)

Static Friction Coefficient (15bar, from box):	0.53±0.05	µ
Static Friction Coefficient (15bar, 100ºC):	0.53±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):	1.7±0.05	gr/cm3
Ignition Loss (ASTM D7348):	50±2	%
Thermal Conductivity (ASTM E1952):	0.23±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:	12000±100	RPM

Recommended Working Values

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

Material type : Woven yarn

Appearance / Formats



Bonded

Rings

Sheets

Applications

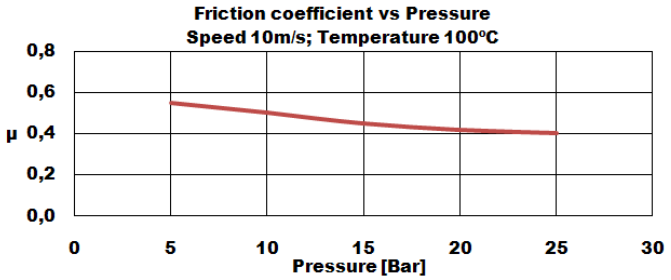
Heavy vehicle clutches - Trucks clutches - Vehicles clutches

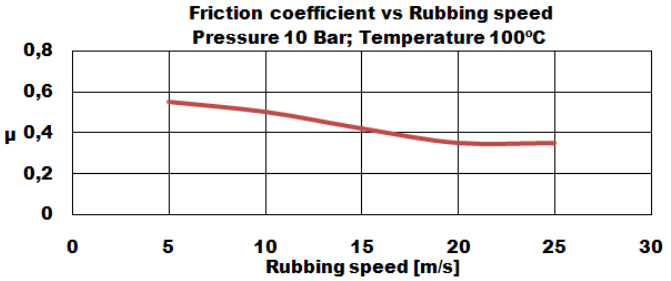
Price Level : € € €

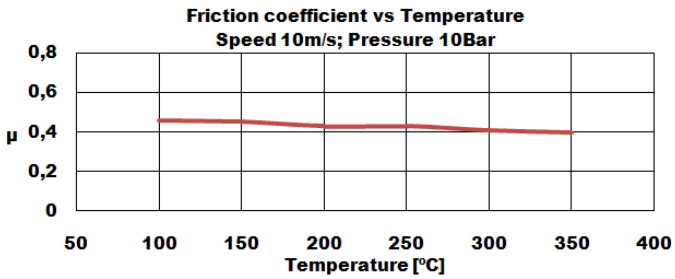
Reach (EC)1907/2023 - RoHS 2015/863/EU : Compliance

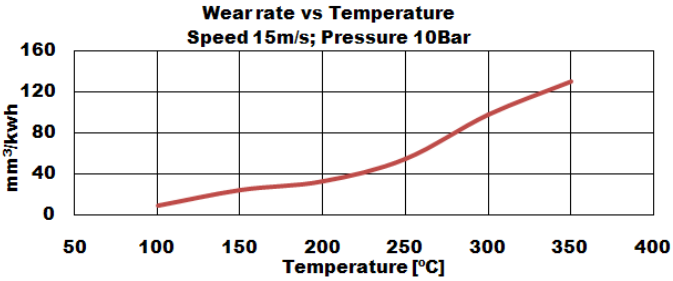
Others

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









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.