Frenos Sauleda s.a.
science friction

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ID Material	3
Responsable	R. Antich
Revision	6
Revision date	06/10/2022

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

Static Friction Coefficient (@15bar, from the box)	0.53±0.05 μ
Static Friction Coefficient (@15bar, 100ºC)	0.53±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)	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/mm²
Burst Resistant (200 x 137 x 3,5)@200ºC	12000±100 RPM

Recommended Working Values

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

Material type

Yarn · Rigid

Appearance / Formats



Applications

Heavy vehicle clutches · Trucks clutches · Vehicles clutches

Price Level

€ € €

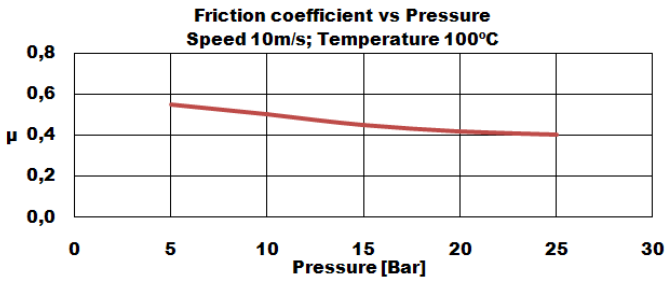
Reach (EC)1907/2023 - RoHS 2015/863/EU

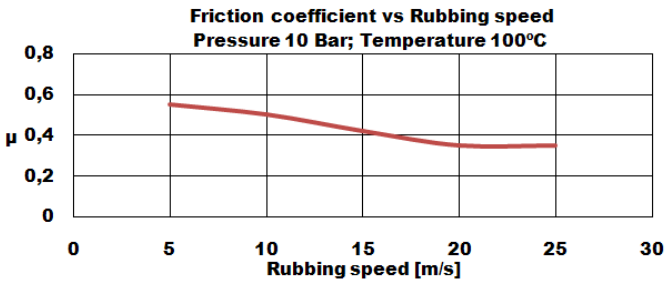
Compliance

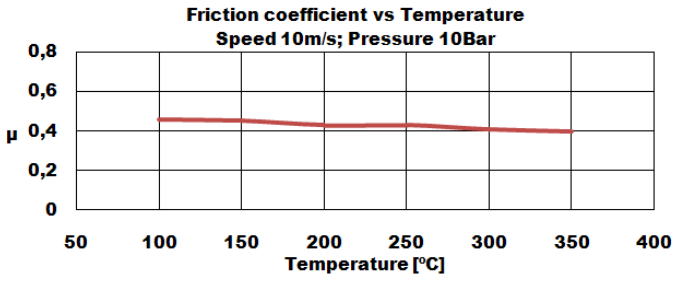
Others

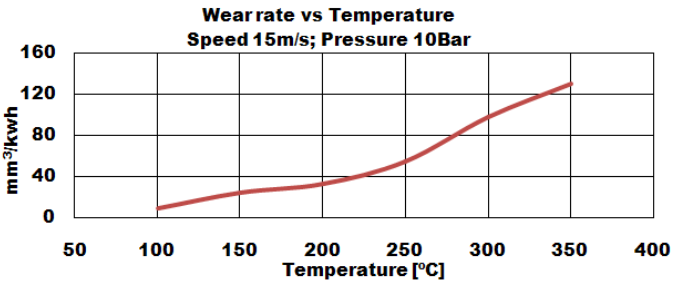
Recommended Mating Surface	Perlitic cast iron, hardness HB150-200
Recommended Adhesives	Thermosetting adhesive

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.