

ID Material: 3
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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, 100°C):	0.53±0.05	μ
Dynamic Friction Coefficient:	see charts	
Wear Rate:	see charts	
T° 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/m²K

Mechanical properties

Compressive Strength (ISO 844:2014):	120±5	N/mm²
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



Applications

Heavy vehicle clutches - Trucks clutches - Vehicles clutches

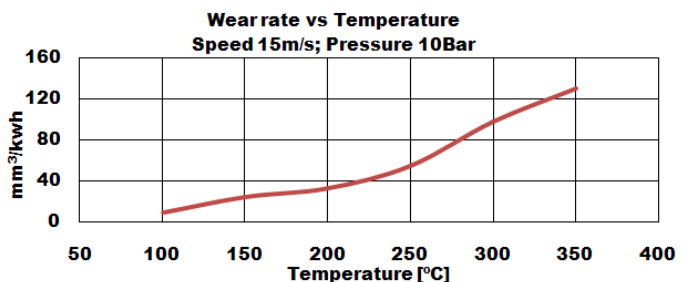
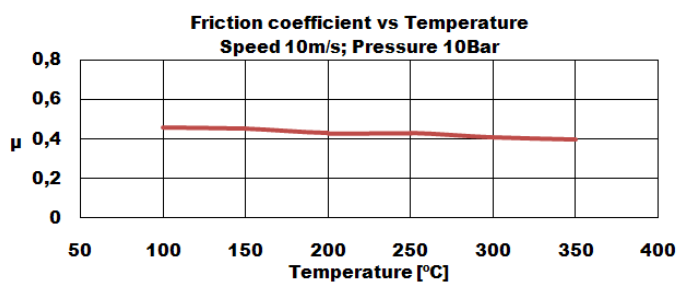
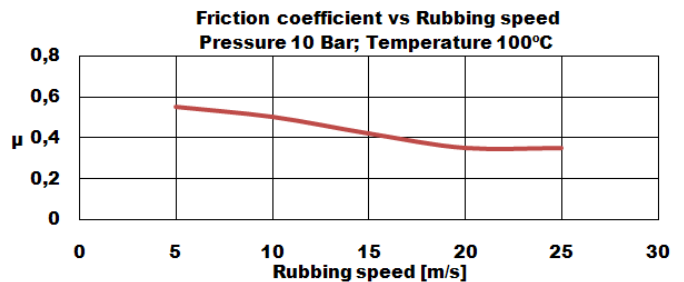
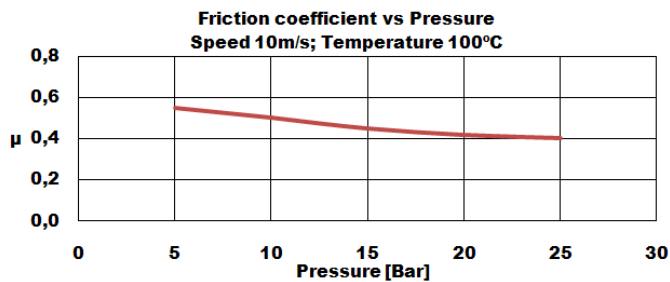
Price Level : € € €

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.