

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)

| | | |
|---|-----------|----------------------|
| Dynamic Friction Coefficient (79N, 7m/s): | 0.42±0.05 | μ |
| Wear Rate (79N, 7m/s): | 40±10 | mm ³ /Kwh |
| T° Fading (100N, 11.5m/s): | 280±10 | °C |

Physical properties

| | | |
|----------------------------------|----------|--------------------|
| Hardness (DIN53505): | 80±5 | Shore-D |
| Specific Gravity (ASTM D792-91): | 1.7±0.05 | gr/cm ³ |
| Ignition Loss (ASTM D-2524): | 50±2 | % |
| Acetone Extraction ISO2859-1: | 2±0.2 | % |

Mechanical properties

| | | |
|--|-----------|-------------------|
| Compressive Strength (UNE 53205): | 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



Applications

Heavy vehicle clutches - Trucks clutches - Vehicles clutches -

Price Level : € € €

Reach (EC)1907/2006 - RoHS 2011/65/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.