

ID Material: 38
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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.

Material data

Friction propeties (according graphics)

| | | |
|---|-----------|----------------------|
| Dynamic Friction Coefficient (79N, 7m/s): | 0.40±0.05 | μ |
| Wear Rate (79N, 7m/s): | 50±10 | mm ³ /Kwh |
| T° Fading (100N, 11.5m/s): | 330±10 | °C |

Physical properties

| | | |
|----------------------------------|----------|--------------------|
| Hardness (DIN53505): | 85±5 | Shore-D |
| Specific Gravity (ASTM D792-91): | 1.9±0.05 | gr/cm ³ |
| Ignition Loss (ASTM D-2524): | 40±2 | % |
| Acetone Extraction ISO2859-1: | 2±0.2 | % |

Mechanical properties

| | | |
|--|-----------|-------------------|
| Compressive Strength (UNE 53205): | 140±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 |
| 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.