Material Description

P206 is a highly resilient non asbestos fibre friction material with a structure designed to provide good energy capability, stable friction characteristics, low wear and long service life.

- Low ratio of static to dynamic coefficient of friction for enhanced engagement characteristics
- Smooth engagement
- Excellent energy capability
- Good wear resistance

Typical Applications

- Wheel brakes
- Transmissions
- Power shift and power take off transmissions

Friction Coefficient (wet)

- Static: 0.13 - 0.16
- Dynamic: 0.11 - 0.14

Mating Material

- Surface finish < 0.5μm Ra (20μ")
- Steel
- Cast steel
- Grey cast iron

Recommended Load

- Max dynamic pressure: 3.5 N/mm² (508 Lbf/in²)
- Max rubbing speed: 35 m/s (115 Ft/sec)
- Max specific power: 4.0 W/mm² (3.4 HP/in²)

Oil Grooving

- Multi-pass tangential groove patterns in variety of configurations
- Grooves can either be pressed or machined

Dimensions

- Friction thickness: 1.5 mm (0.060") max
  0.40 mm (0.016") min
- Friction diameter: 1,000 mm (39") max
  50 mm (2") min

Microstructure of P206 50X

The above data is taken from specific test parameters therefore results can vary in different application conditions.
**FRICTION PAPER**

**Torque Trace**

**Change of Dynamic Coefficient of Friction**

<table>
<thead>
<tr>
<th>Test Condition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total cycles</td>
<td>5,000 cycles</td>
</tr>
<tr>
<td>Inertia</td>
<td>0.04 kgf·m·sec^2</td>
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<tr>
<td>Dynamic rpm</td>
<td>2940</td>
</tr>
<tr>
<td>Friction facing dimensions</td>
<td>Ø133.5mm × Ø99.0mm</td>
</tr>
<tr>
<td>Friction surfaces</td>
<td>4</td>
</tr>
<tr>
<td>Unit energy</td>
<td>0.74J/°C</td>
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<tr>
<td>Unit pressure</td>
<td>2.0 Mpa</td>
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<tr>
<td>Oil type</td>
<td>Tractor oil</td>
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<tr>
<td>Oil temperature</td>
<td>80°C(±5°C)</td>
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<tr>
<td>Arrangement</td>
<td>pDpDp</td>
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</tbody>
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