

P204

ADVANCED FRICTION PAPER

Material Description



P204 has an enhanced structure designed to provide superior energy capability, good engagement characteristic, 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
- Power shift and power take off

Average Friction Coefficient (wet)

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

Mating Material

- Surface finish <math>< 0.5\mu\text{m Ra}</math> (20 μ "
- Steel
- Cast steel
- Grey cast iron

Recommended Max Load

- Dynamic pressure: 3.2 N/mm² (464 Lbf/in²)
- Rubbing speed: 45 m/s (148 Ft/sec)
- Specific power: 4.0 W/mm² (3.4 HP/in²)

Oil Grooving

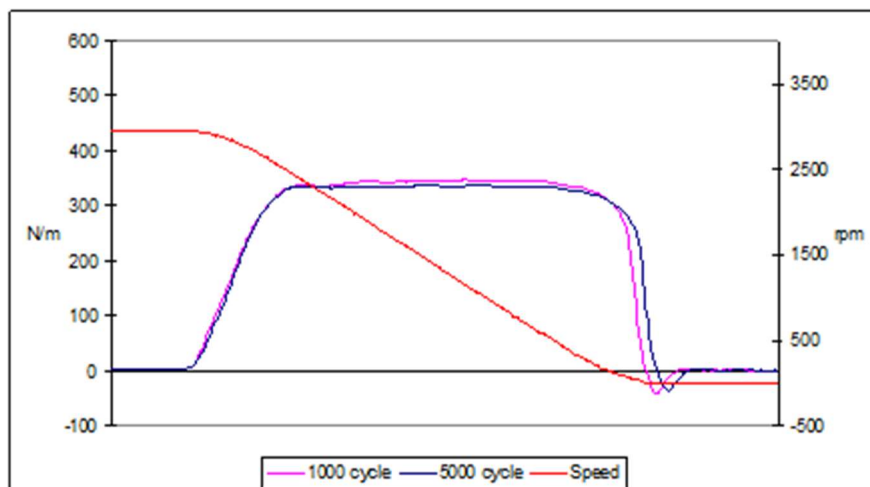
- Multi-pass tangential groove patterns in variety of configurations
- Grooves can either be pressed or machined

Dimensions

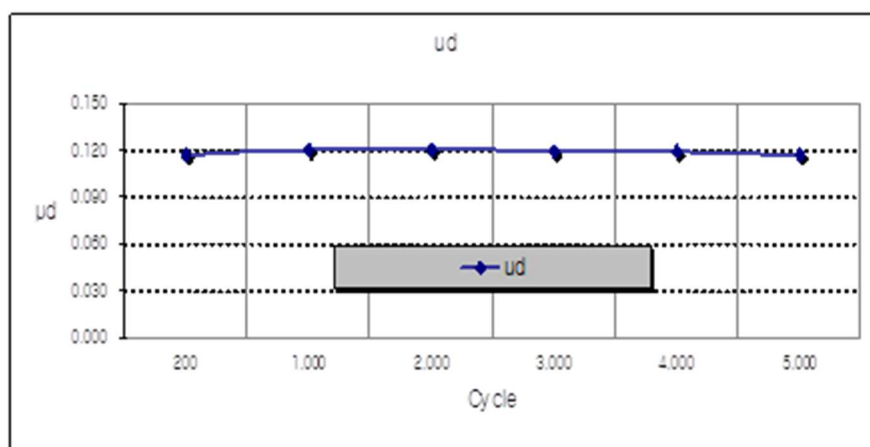
- Friction thickness: Max 1.5 mm (0.060") to 0.40 mm (0.016")
- Friction diameter: Max 1,200 mm (39")

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

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Torque Trace



Change of Dynamic Coefficient of Friction

Total cycles	5,000 cycles
Inertia	0.04 kgf·m·sec ²
Dynamic rpm	2940
Friction facing dimensions	Ø133.5mm × Ø99.0mm
Friction surfaces	4
Unit energy	0.74J/mm ²
Unit pressure	2.0 Mpa
Oil type	Tractor oil
Oil temperature	80°C(±5°C)
Arrangement	pDpDp

Test Conditions