

Material Description

P200 is a non asbestos cellulose fibre friction material reinforced with graphite. This is a high strength material providing an elevated coefficient of friction and good thermal conductivity.

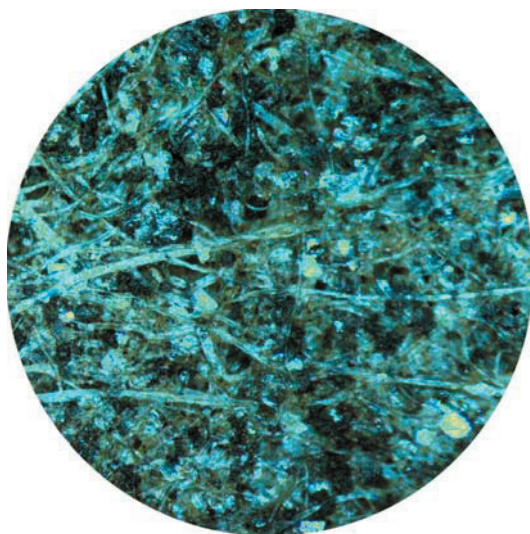
- Excellent thermal stability
- High coefficient of friction
- Low ratio of static to dynamic coefficient of friction for enhanced engagement characteristics
- Good wear resistance

Typical Applications

- Power take-off clutches
- Forward-reverse clutches
- Powershift transmissions
- Static brakes

Mating Material

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



Microstructure of P200 50X

Friction Coefficient (wet)

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

Recommended Load

- Max dynamic pressure: 3.5 N/mm² (508 Lbf/in²)
- Max rubbing speed: 40 m/s (131 Ft/sec)
- Max specific power: 4.0 W/mm² (3.4 HP/in²)

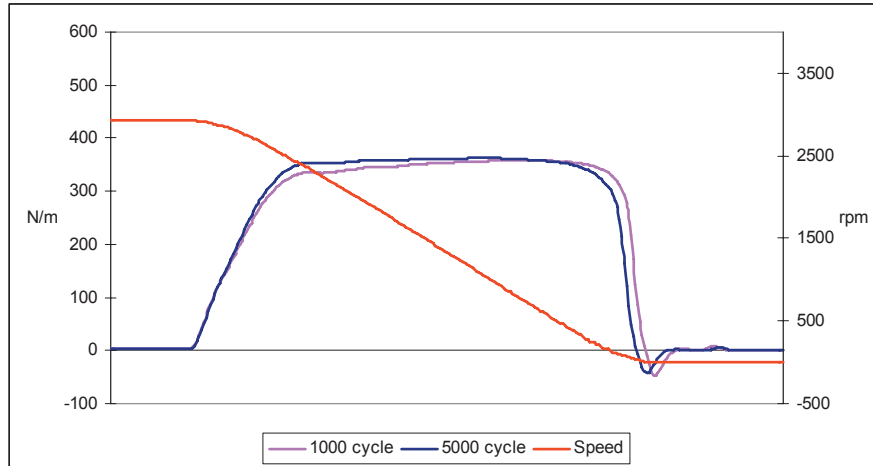
Oil Grooving

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

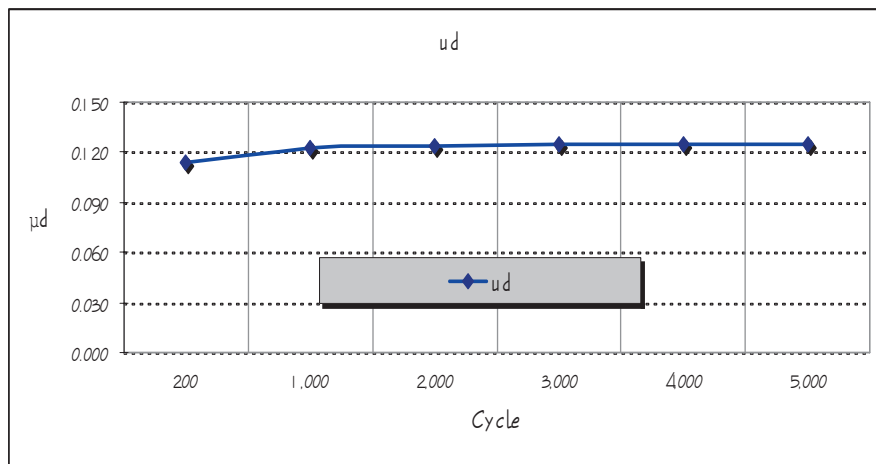
Dimensions

- Friction thickness: 1.5 mm (0.060") max
0.35 mm (0.014") min
- Friction diameter: 1,000 mm (39") max
50 mm (2") min

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



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/□
Unit pressure	2.0 Mpa
Oil type	Tractor oil
Oil temperature	80°C(±5°C)
Arrangement	pDpDp

TEST CONDITION