

Material Description

P205 is a non asbestos fibre friction material designed to provide a high dynamic friction level, good heat resistance and durability.

- Superior dynamic friction level
- Low ratio of static to dynamic coefficient of friction for enhanced engagement characteristics
- Smooth engagement
- Good wear resistance

Typical Applications

- Wheel brakes
- Combine brake
- Power shift and power take off transmissions

Mating Material

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



Microstructure of P205 50X

Friction Coefficient (wet)

- Static: 0.13 - 0.16
- Dynamic: 0.12 - 0.15

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)

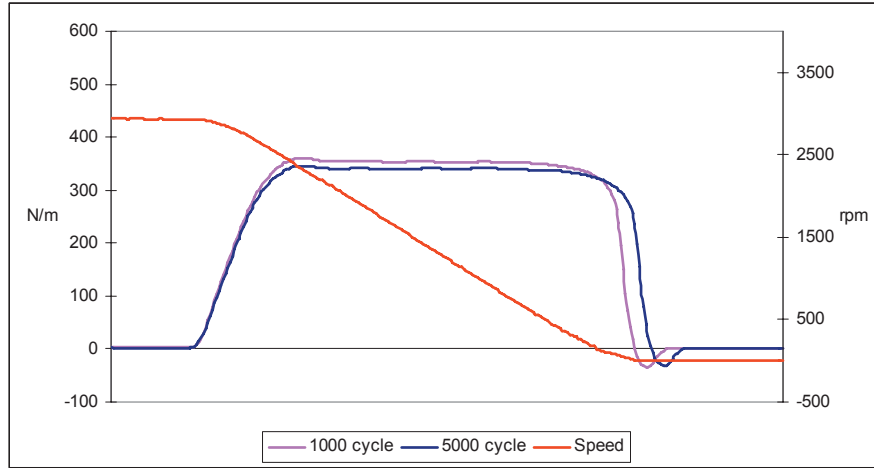
Oil Grooving

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

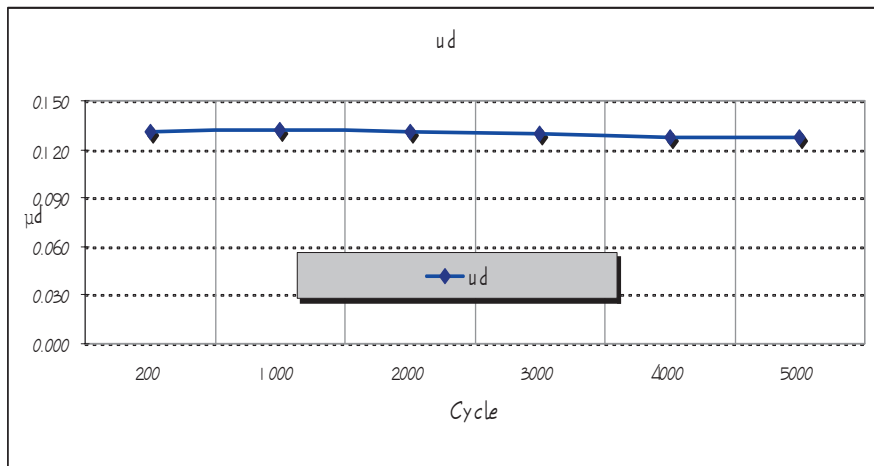
Dimensions

- Friction thickness: 1.2 mm (0.047”) max
0.40 mm (0.016”) 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