

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

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: 3.2 N/mm² (464 Lbf/in²)
- Max rubbing speed: 45 m/s (148 Ft/sec)
- Max specific power: 4.0 W/mm² (3.4 HP/in²)



Microstructure of P204 50X

Oil Grooving

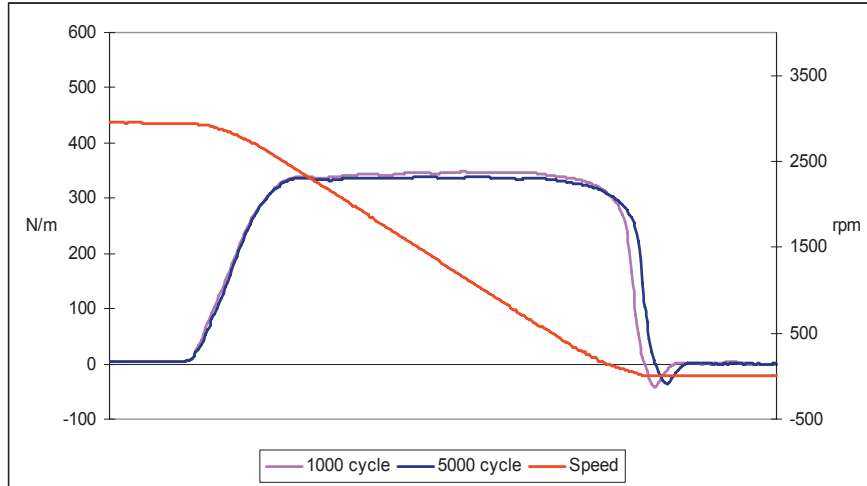
- Multi-pass tangential groove patterns in variety of configurations
- Grooves can either be pressed or machined

Dimensions

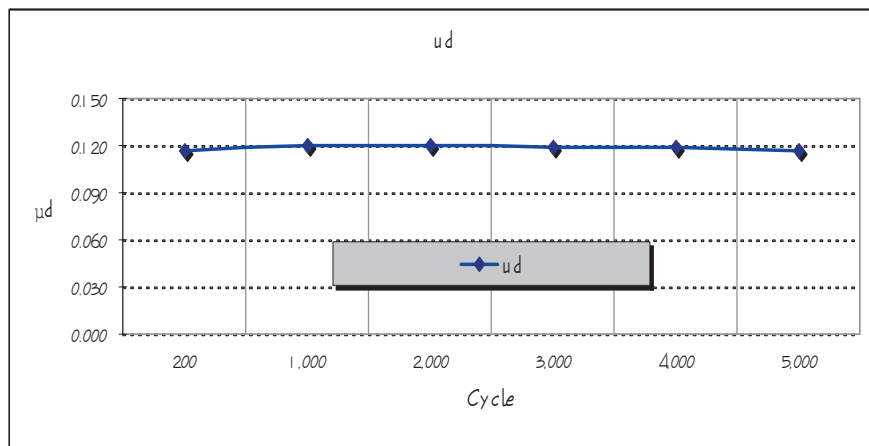
- Friction thickness: 1.5 mm (0.060") max
0.40 mm (0.016") min
- Friction diameter: 1,000 mm (39") max
50 mm (2") min

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

P204 - 1 - 130307



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