

### Material Description

**P208C** has a structure of highly conductive fibres designed to provide outstanding thermal capability. The use of porous carbonaceous materials improves the stability of the torque curve over a wide range of temperatures and pressures.

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

### Typical Applications

- Wheel brakes, LSD
- Transmission clutch

### Friction Coefficient (wet)

- Static: 0.09 - 0.13
- Dynamic: 0.11 - 0.13

### Mating Material

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

### Recommended Load

- Max dynamic pressure: 4.5 N/mm<sup>2</sup> (653 Lbf/in<sup>2</sup>)
- Max rubbing speed: 45 m/s (147 Ft/sec)
- Max specific power: 4.0 W/mm<sup>2</sup> (3.4 HP/in<sup>2</sup>)



Microstructure of P208C 50X

### Oil Grooving

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

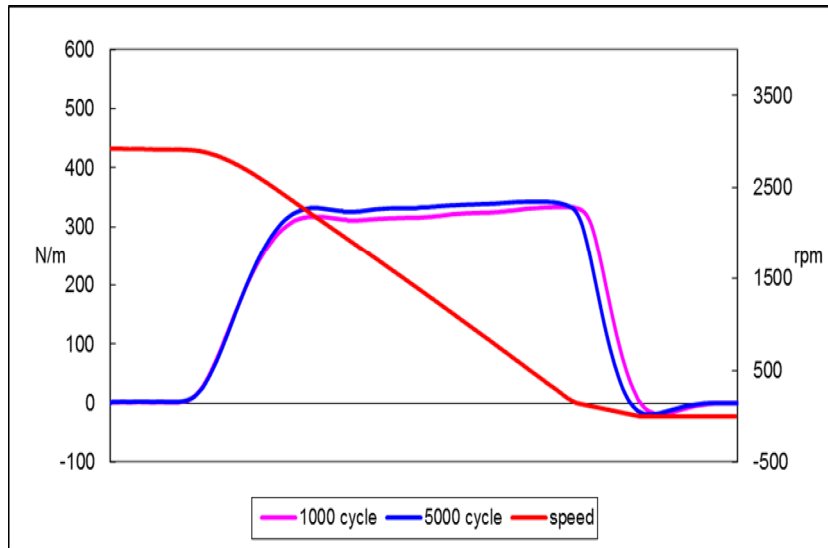
### Dimensions

- Friction thickness: 0.50mm (0.02") ~ 1.20mm (0.05")
- Friction diameter: 1,200 mm (47") max 50 mm (2") min

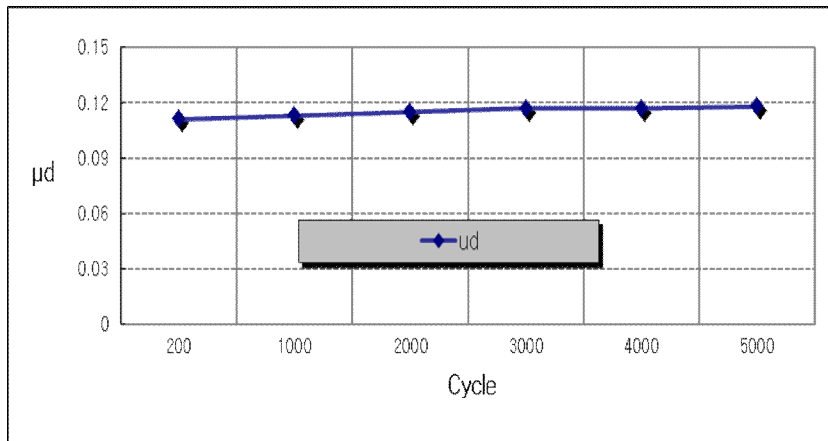
The above data is taken from specific test parameters therefore results can vary in different application conditions and oil

# P208C

## CARBON FRICTION PAPER



TORQUE TRACE



CHANGE OF DYNAMIC COEFFICIENT OF FRICTION

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

TEST CONDITION

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