μtech

P207C

CARBON FRICTION PAPER

DATA SHEET

Material Description

P207C 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 ratio of static to dynamic coefficient of friction for enhanced engagement characteristics
- Smooth engagement
- Excellent energy capability
- Good wear resistance

Typical Applications

- Differentials & wheel brakes
- Torque converter clutches
- Transmissions

Friction Coefficient (wet)

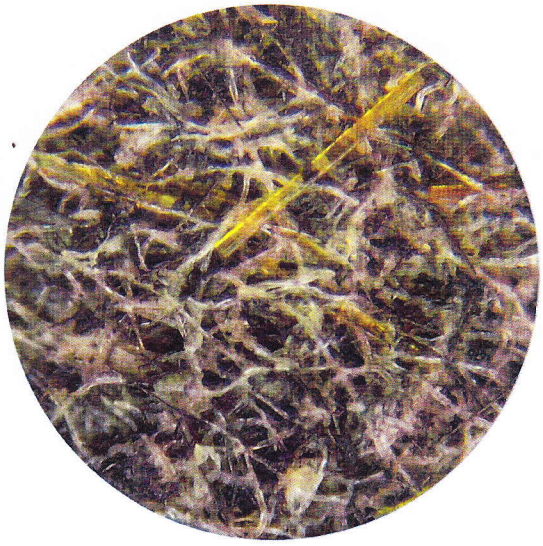
- Static: 0.10 - 0.14
- Dynamic: 0.12 - 0.14

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: 40 m/s (130 Ft/sec)
- Max specific power: 4.0 W/mm² (3.4 HP/in²)



Microstructure of P207C 50X

Oil Grooving

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

Dimensions

- Friction thickness: 0.75 mm (0.03")
- 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

P207C - 1 - 130307

Unit 5, Eden Court, Eden Way,
Leighton Buzzard, England LU7 4FY
Tel: +44 1525 376700 Fax: +44 1525 377170
www.frictionmarketing.co.uk

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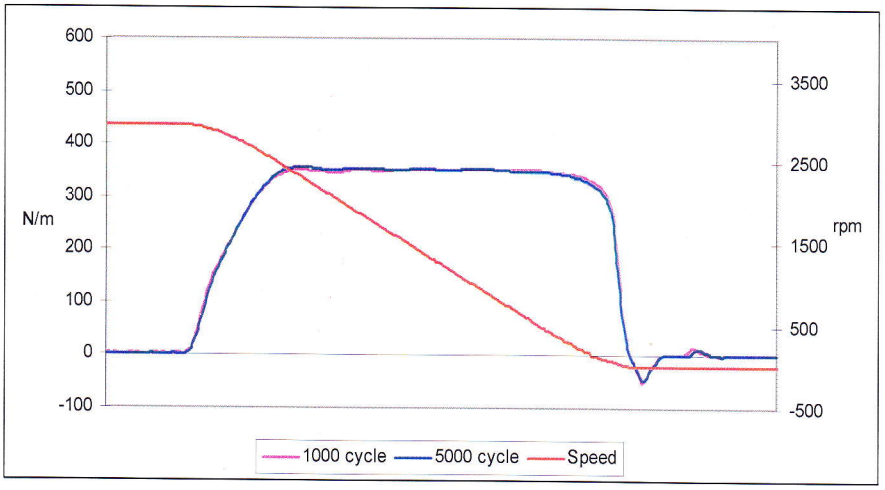
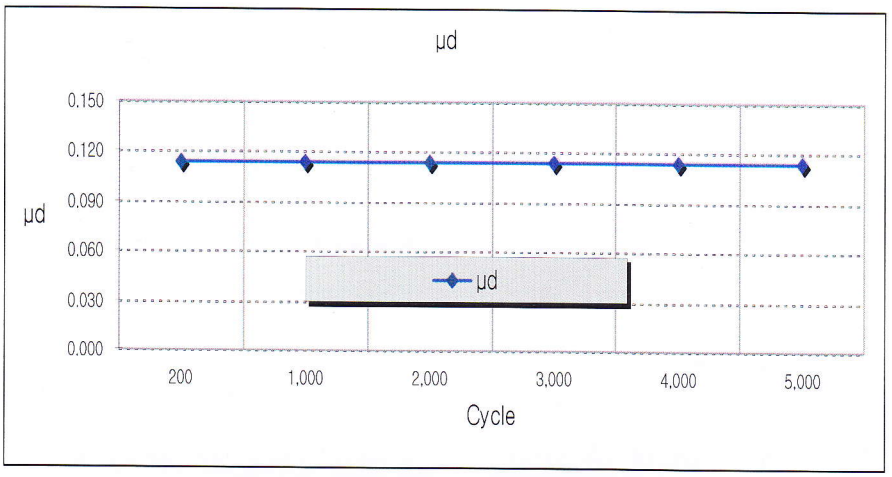


TORQUE TRACE



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/㎟
Unit pressure	2.0 Mpa
Oil type	Tractor oil
Oil temperature	80℃(±5℃)
Arrangement	pDpDp

TEST CONDITION