

P309C CARBON FRICTION PAPER

Material Description

P309C has a structure of highly conductive fibres designed to provide outstanding thermal capability, good wear resistance and μ -V characteristics. 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
- Anti-noise and vibration
- Excellent energy capability
- Good wear resistance

Typical Applications

- Transmission clutch
- LSD
- Wheel brakes

Average Friction Coefficient (wet)

- Static: 0.09 0.12
- Dynamic: 0.12 0.13

Mating Material

- Surface finish < $0.5\mu m$ Ra (20μ ")
- Steel
- Cast steel
- Grey cast iron

Recommended Max Load

- Dynamic pressure: 4.5 N/mm² (653 Lbf/in²)
- Rubbing speed: 45 m/s (147 Ft/sec)
- 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: Max 1.50mm (0.05") to Min 0.40mm (0.02")
- Friction diameter: Max 1,200 mm (47")

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

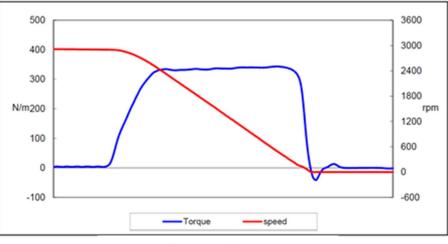
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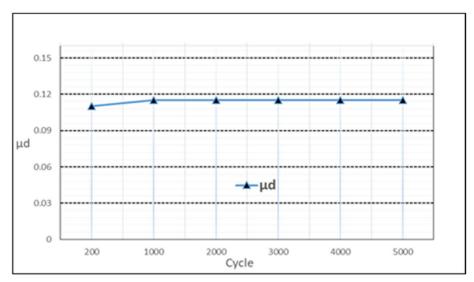




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Torque Trace



Change of Dynamic Coeffient 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/m ²
Unit pressure	2.0 Mpa
Oil type	Tractor oil
Oil temperature	80°C(±5°C)
Arrangement	pDpDp

Test Conditions