

Material Description

C7002 is an advanced carbon friction material based on natural and synthetic fibres and fillers strengthened by a unique resin binder.

It provides superior heat resistance and anti-wear performance under severe power conditions and delivers a positive μV characteristic at various pressures and temperatures.

- High energy capability
- Close to 1:1 relationship between static to dynamic coefficient of friction giving smooth engagement & superior NVH performance
- Stable coefficient of friction over speed and pressure
- Superior wear resistance
- Good oil compatibility

Typical Applications

- Transmission clutch, LSD & wheel brakes

Average Friction Coefficient (wet)

- Static: 0.09 - 0.14
- Dynamic: 0.10 - 0.13

Mating Material

- Steel
- Surface finish < 0.5 μ m Ra (20 μ in CLA)
- No special hardness requirements

Recommended Max Load

- Dynamic pressure: 6 N/mm² (870 psi)
- Rubbing speed: 50 m/s (164 Ft/sec)
- Specific power: 4.4 W/mm² (3.74 HP/in²)

Oil Grooving

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

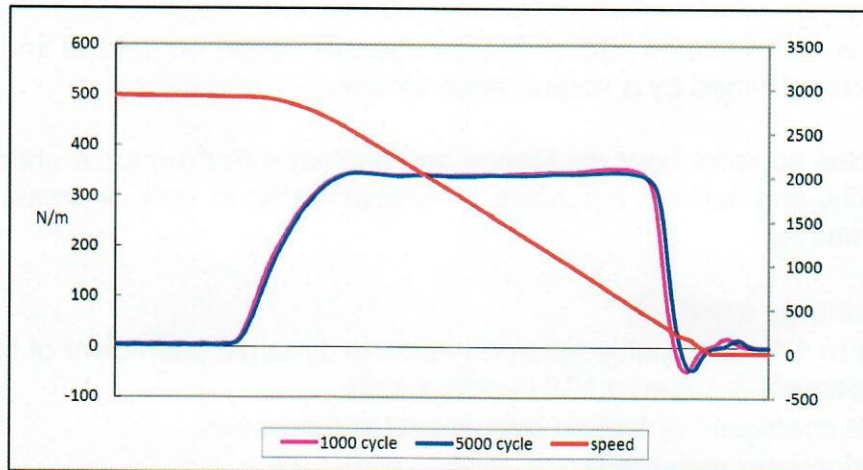
Dimensions

- Friction thickness: 0.50 mm (0.02") to 1.50mm (0.06")
- Friction diameter: 1,000mm Max (39.37")

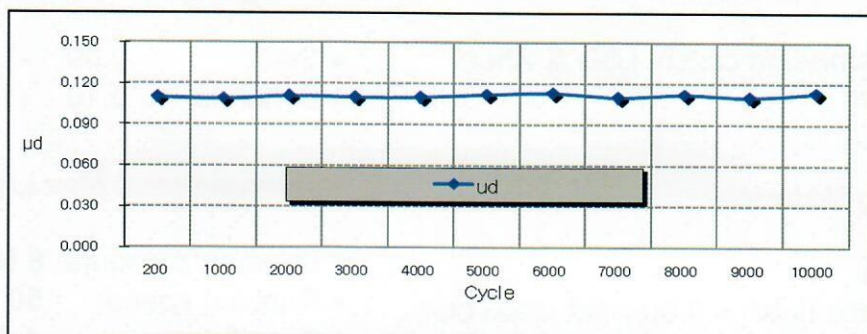
The above data is taken from specific test parameters therefore results can vary in different application conditions

C7002 - 1 - 040518

DATA SHEET



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/mm ²
Unit pressure	2.0 Mpa
Oil type	TO-4
Oil temperature	80°C(±5°C)
Arrangement	pDpDp

TEST CONDITION