

C7002 CARBON FRICTION MATERIAL

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

Mating Material

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

Average Friction Coefficient (wet)

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

Recommended Max Load

- Dynamic pressure: 6 N/mm² (870 Lbf/in²)
- 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: Max 1.50mm (0.06") to Min 0.50 mm (0.02")
- Friction diameter: Max 1,000mm (39.37")

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

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

Test Conditions