

## Material Description

**C5050™** has carbon fibre rovings that are entwined into a plain weave pattern and reinforced with a unique resin binder. Carbon fibres provide excellent heat resistance and superior heat dissipation.

- Stable coefficient of friction over speed and pressure
- Close relationship between static to dynamic coefficient of friction giving smooth engagement & quiet operation
- Excellent energy capability
- Good wear resistance

## Typical Applications

- High load differentials & clutches

## Average Friction Coefficient (wet)

- Static: 0.095 - 0.105
- Dynamic: 0.090 - 0.105

## Mating Material

- Steel
- Surface finish < 0.5µm Ra (20µin CLA)
- No special hardness requirements

## Recommended Max Load

- Dynamic pressure: 6 N/mm<sup>2</sup> (870 psi)
- Rubbing speed: 17 m/s (56 Ft/sec)
- Specific power: 4 W/mm<sup>2</sup> (3.4 HP/in<sup>2</sup>)

## Oil Grooving

- Segmented

## Dimensions

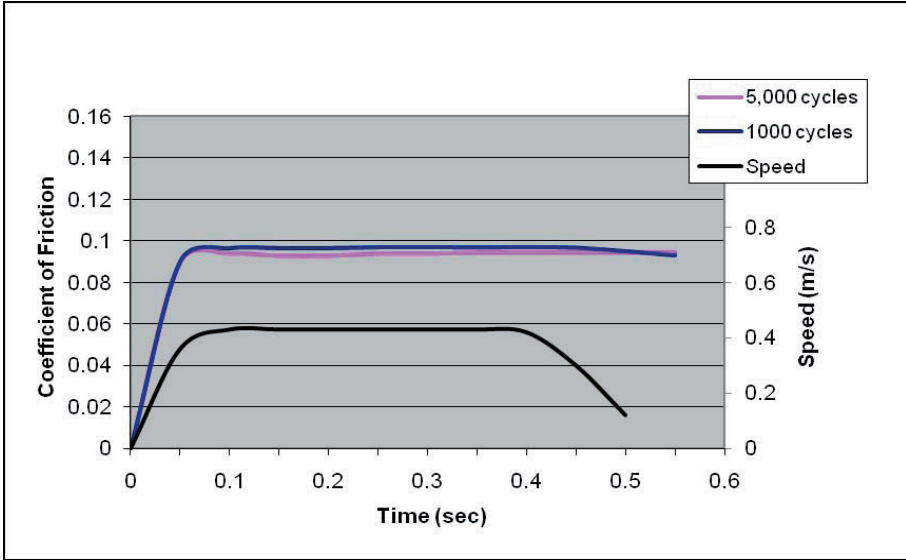
- Friction thickness: 0.54 mm (0.021")
- Friction diameter:  
Non-segmented: 200 mm (8")



Micro Structure of C5050 x 50

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

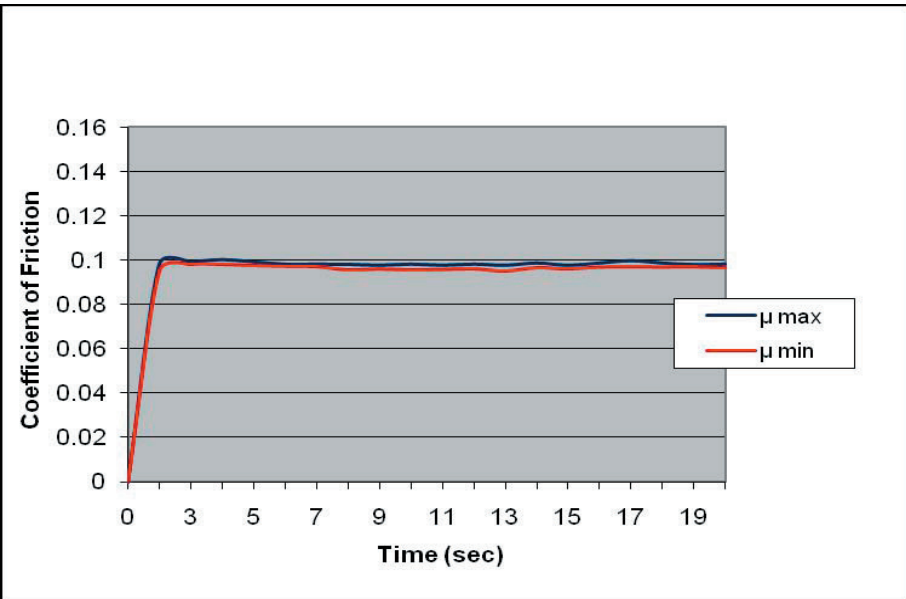
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TORQUE TRACE

Unit pressure	5.0 MPa
Friction facing dimensions	Ø133.5mm × Ø99.0mm
Spec. Energy	0.74J/□
Slip time	5.00 s
Oil type	SAE 80W-90
Oil Temperature	80°C +/- 5°C
Rubbing speed	0.5 m/s

TEST CONDITION



NVH CHARACTERISTIC μMAX & μMIN