

B035

SINTERED FRICTION MATERIAL

Material Description

B035 is a bronze based sprinkled sintered friction material for wet and dry running applications.

- Good thermal stability
- High and stable coefficient of friction
- High mechanical strength
- Good wear resistance

Typical Applications

- Power take-off clutches
- Marine gearbox
- Master clutches & Steering clutches
- Auxiliary machinery

Average Friction Coefficient (wet)

- Static: 0.12 - 0.15
- Dynamic: 0.08 - 0.11

Mating Material

- Surface finish < 2.0 μ m Ra (20 μ ")
- Steel hardened & tempered
- Cast steel
- Grey cast iron

Recommended Max Load

- Dynamic pressure: 4.0 N/mm² (580 Lbf/in²)
- Rubbing speed: 30 m/s (98 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 2.0 mm (0.060") to Min 0.35 mm (0.080")
- Friction diameter: Max 304 mm (12")

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

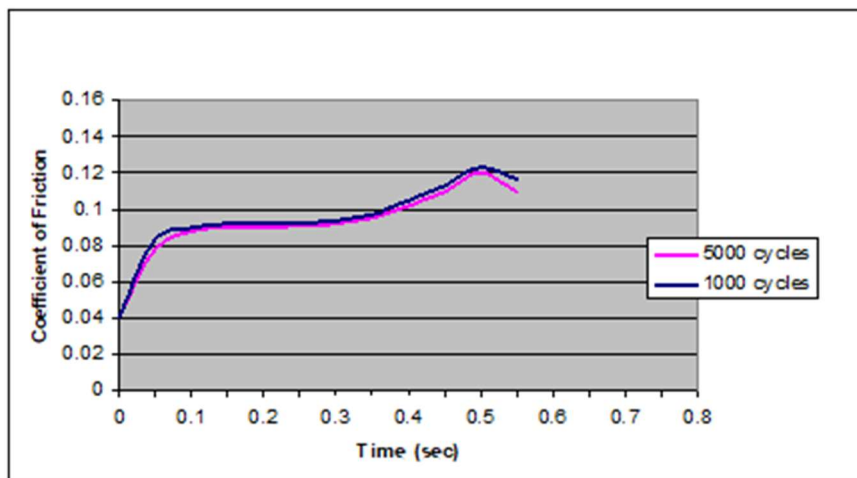
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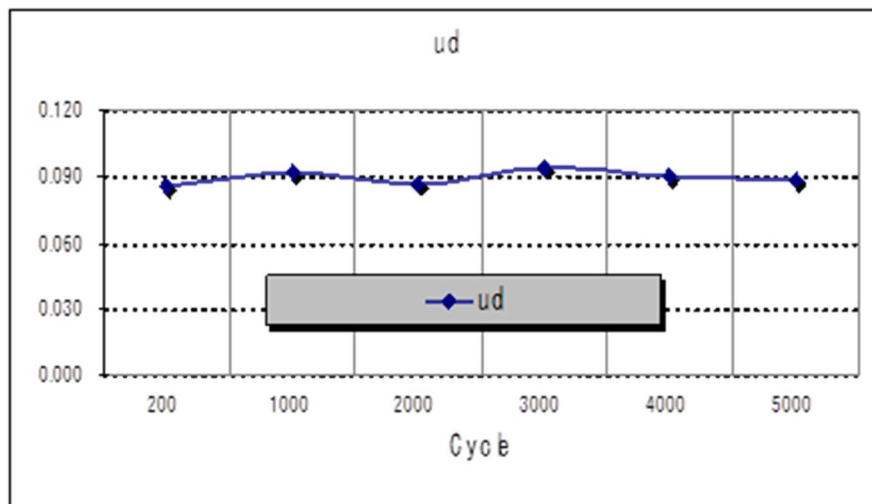
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DATA SHEET



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	Tractor oil
Oil temperature	80°C(±5°C)
Arrangement	pDpDp

Test Conditions