

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

Mating Material

- Surface finish < 2.0μm Ra (80μ“)
- Steel hardened & tempered
- Cast steel
- Grey cast iron



Microstructure of B035 50X

Friction Coefficient (wet)

- Static: 0.12 - 0.15
- Dynamic: 0.07 - 0.10

Recommended Load

- Max dynamic pressure: 2.5 N/mm² (363 Lbf/in²)
- Max rubbing speed: 30 m/s (98 Ft/sec)
- Max specific power: 4.0 W/mm² (3.4 HP/in²)

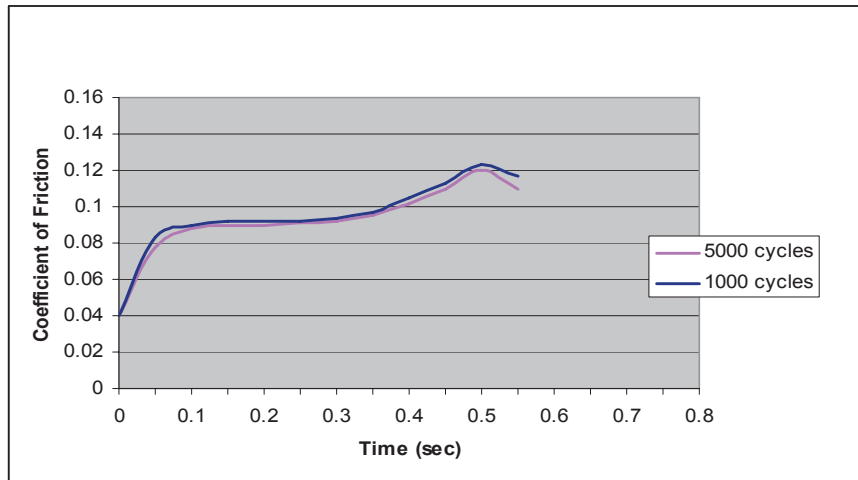
Oil Grooving

- Grooves can either be pressed or machined
 - Radial
 - Waffle
 - Spiral
 - Sunburst

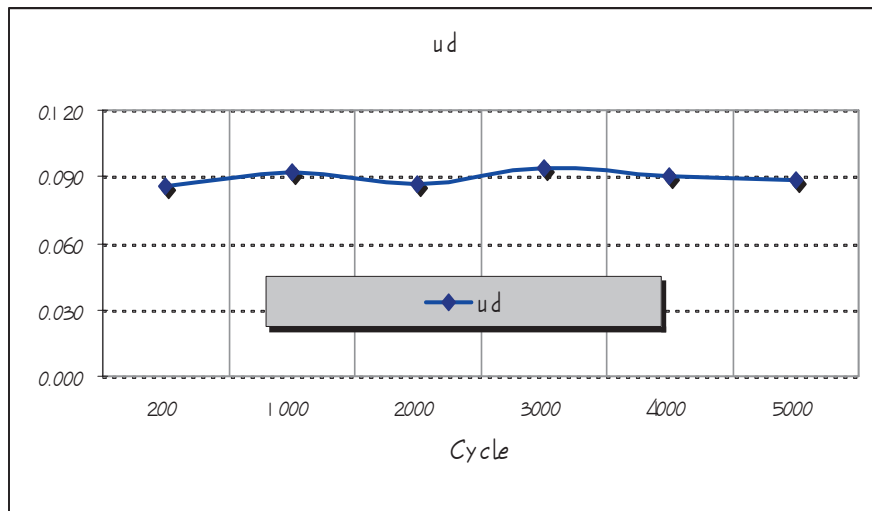
Dimensions

- Friction thickness: 2.0 mm (0.080") max
0.25 mm (0.010") min
- Friction diameter: 304 mm (12") max

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



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/□
Unit pressure	2.0 Mpa
Oil type	ATF
Oil temperature	80°C(±5°C)

TEST CONDITION