

B066

SINTERED FRICTION MATERIAL

Material Description

B066 is a bronze/brass based sprinkled sintered friction material for wet running applications. This friction lining was designed to provide stable friction values under high surface pressure at low speed. Also to meet environmental needs it is lead free.

- Good wear resistance
- Stable coefficient of friction under high load
- High mechanical strength
- Excellent friction stability in high performance oils

Typical Applications

- Differential clutches
- High load clutches
- Multi Disc Brakes

Average Friction Coefficient (wet)

- Static: 0.10 - 0.13
- Dynamic: 0.08 - 0.12

Mating Material

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

Recommended Max Load

- Dynamic pressure: 7.0 N/mm² (1015 Lbf/in²)
- Static pressure: 25.0 N/mm² (3625 Lbf/in²)
- Rubbing speed: 25 m/s (82 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 600 mm (24")

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

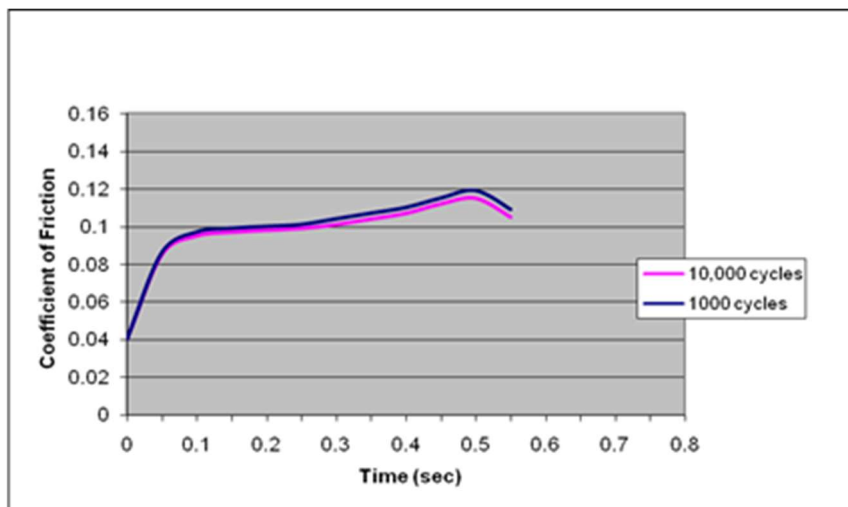
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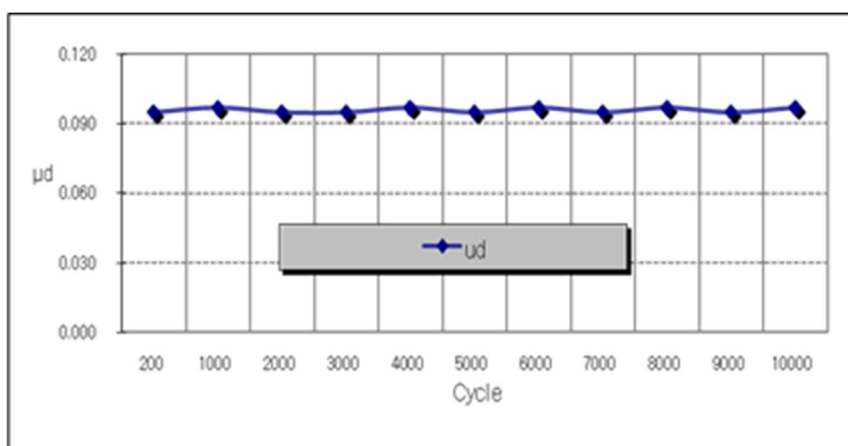
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DATA SHEET



Torque Trace



Change of Dynamic Coefficient of Friction

Total cycles	10,000 cycles
Inertia	0.7225 kgm ²
Dynamic rpm	2240 rpm
Friction lining surface	49.40 cm ²
Friction surfaces	6
Unit energy	0.679 J/mm ²
Unit power	2.16 W/ mm ²
Oil type	Hytrans Plus
Rubbing speed	13.76 m/s

Test Conditions