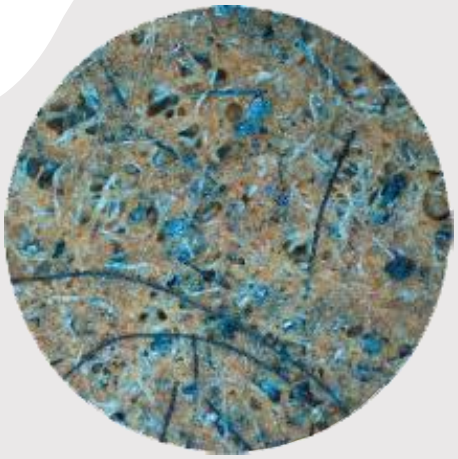
IBFS P206 HYBRID PAPER FRICTION MATERIAL



Microstructure of P206 50X

INDUSTRIAL BRAKE & FRICTION SUPPLY

Established in 1998. With more than 20 years experience supporting the mining and earthmoving industry in Australia.

CONTACT

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TYPICAL APPLICATIONS

Wheel Brakes
Transmissions
PTO

MATING MATERIAL

Surface finish < 0.5um Ra (20µ")
Steel
Cast steel
Grey cast iron

DESCRIPTION

P206 is a highly resilient non asbestos fibre friction material with a structure designed to provide good energy capability, stable friction characteristics, low wear, and long service life.

Low ratio of static to dynamic coefficient of friction for enhanced engagement characteristics.

Smooth engagement.

Excellent energy capability.

Good wear resistance.

FRICTION COEFFICIENT

Static: 0.13 - 0.16

Dynamic: 0.11 - 0.14

RECOMMENDED LOAD

Max dynamic pressure: 3.5 N/mm² (508 Lbf/in²)

Max rubbing speed: 35 m/s (115 Ft/sec)

Max 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: 1.5 mm (0.060") max - 0.40 mm (0.016") min

Friction diameter: 1,000 mm (39") max - 50 mm (2") min

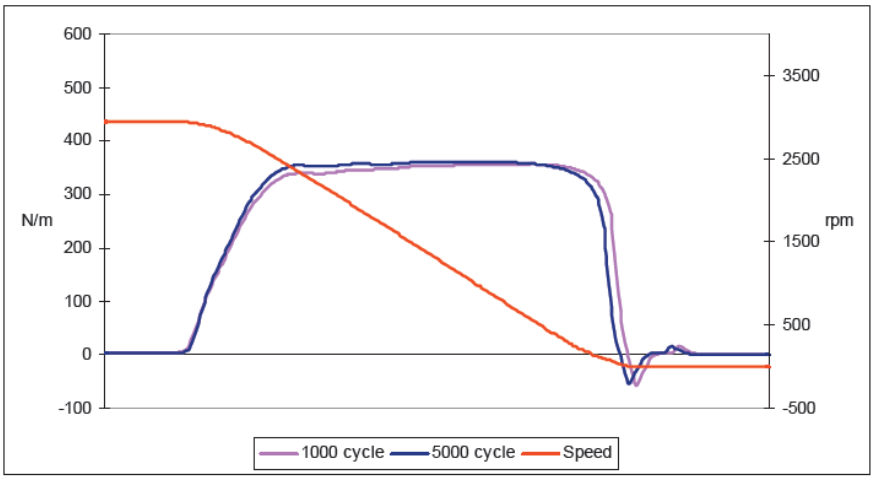
The above data is taken from specific test parameters therefore results can vary in different application conditions

LABORATORY TESTS

Tests carried out over 5000 cycles.

TORQUE TRACE

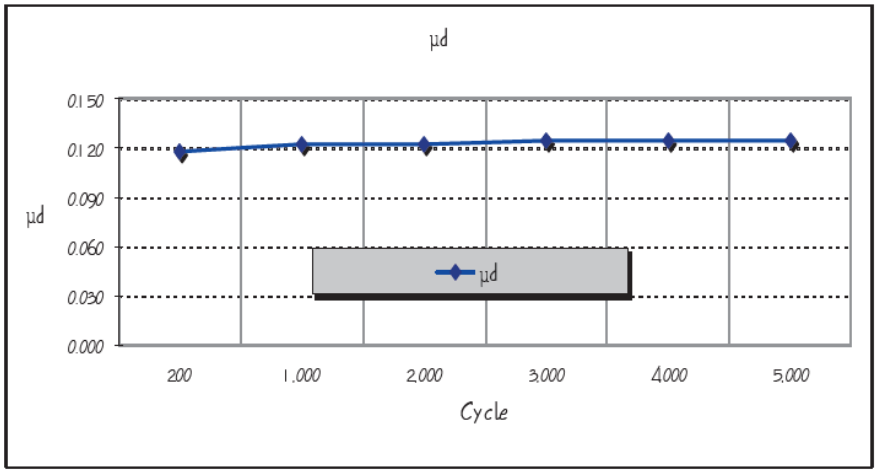
A smoother curve indicates low NVH (Noise, Vibration and Harshness). This results in a smoother engagement with less heat generation.



TORQUE TRACE

DYNAMIC COEFFICIENT OF FRICTION

Dynamic Coefficient refers to the sliding friction while discs are in motion. Over 5000 cycles friction coefficients remain stable resulting in reliable braking performance after repeated engagements.
When coefficients are low friction is reduced resulting in more heat build-up and glazing.



CHANGE OF DYNAMIC COEFFICIENT OF FRICTION

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

TEST CONDITION

INDUSTRIAL BRAKE & FRICTION SUPPLY