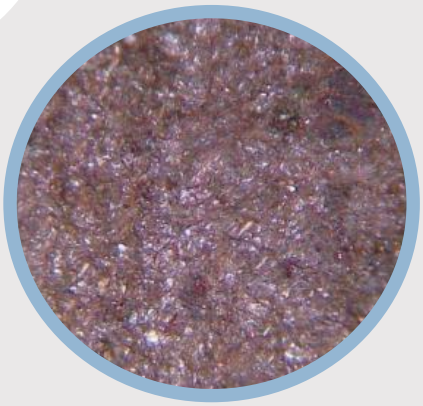


Microstructure of G009 50X

INDUSTRIAL BRAKE & FRICTION SUPPLY

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

CONTACT

PHONE:
08 9277 7783

WEB:
industrialbrake.com.au

EMAIL:
sales@industrialbrake.com.au

TYPICAL APPLICATIONS

Heavy Duty Shift Clutches
Wet Brakes
Transmissions

MATING MATERIAL

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

IBFS G009 GRAPHITE FRICTION MATERIAL

DESCRIPTION

G009 is a moulded graphite material with a high percentage of carbonaceous components that provide superior energy absorption.

- Outstanding thermal stability in high energy applications
- Stable coefficient of friction
- Good wear resistance

FRICTION COEFFICIENT

Static: 0.135 - 0.150

Dynamic: 0.110 - 0.125

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)

Energy Capacity: 210 J/cm^2

OIL GROOVING

Sunburst and waffle

Grooves are machined

DIMENSIONS

Friction thickness: 1.50 mm (0.060")

Friction diameter: 660 mm (26") max

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.

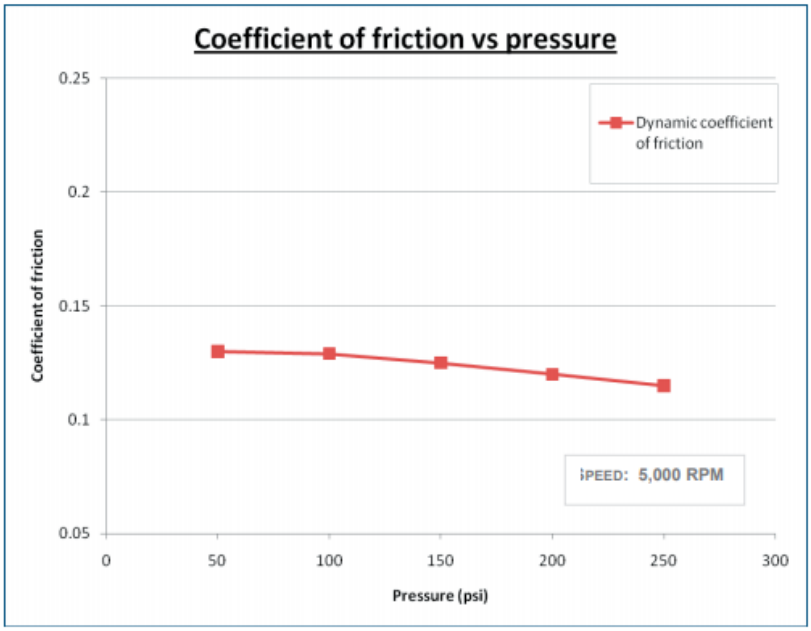
TORQUE TRACE

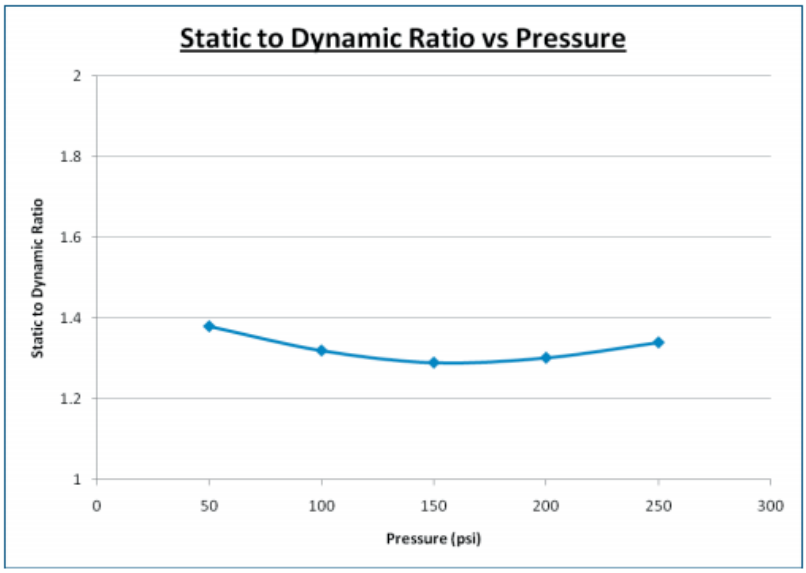
A smoother curve indicates low NVH (Noise, Vibration and Harshness). This results in a smoother engagement with less heat generation.

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.

.





INDUSTRIAL BRAKE & FRICTION SUPPLY