FTL201

✓ **General description:**

FTL201 is a medium coefficient plastic composite friction material which is bonded on to a glass fibre reinforced supporting layer. The friction layer contains a combination of different solid lubricants and fillers which offers smooth operation and guarantees a noise free solution.

Backing plates are available in both steel and glass-fibre reinforced materials providing exceptional high load capacity and strength.

FTL201 has a low rate of wear and offers very good temperature resistance simultaneously. Has a good performance in alkaline environment and resistant against oils and greases.

✓ **Application:**

FTL201 is suitable in applications where oil contamination is likely to occur.

Brake pads are manufactured to a tight tolerance which ensures no lateral movement when fitted to the brake calliper.
Applications include wind turbine yaw brakes and various other industrial applications.

✓ **Wear Rate:**

FTL201 offers excellent wear when compared to standard moulded organic friction material.
The wear rate can vary depending on braking force, sliding speed, sliding distance, frequency of movement, hardness & surface finish of the mating material. Environmental conditions should also be taken in to consideration.

✓ **Mating surface:**

A good quality, fine grained, pearlitic cast iron or cold rolled steel with a Brinell hardness of 200.
Cast steels are not recommended.

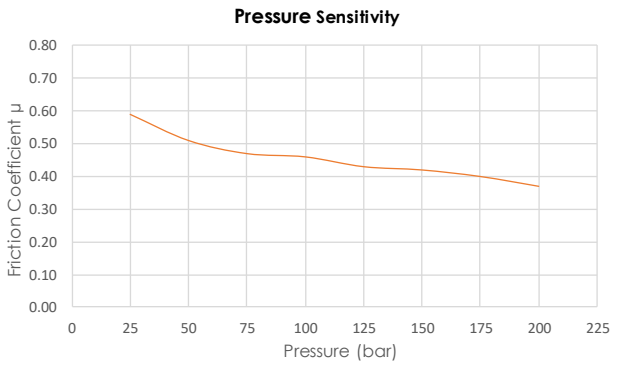
✓ **Operation:**

Sliding movement between the friction material and the mating surface will cause a micro-wear process to occur. This involves solid lubricants from sliding material being released onto the surface of the brake disc or brake rotor.

The micro-wear process builds up a separating layer of material which ensures smooth operation. This prevents the stick-slip effect often seen with standard organic type friction materials.

✓ **Technical Data:**

Friction Coefficient	0.32-0.48
Density	2.3g/cm^3
Max. Dynamic Load	140 N/mm^2
Max. Static Load	235 N/mm^2
Max. Shear Strength	110 N/mm^2
Hardness of Counter Material	>160HB
Roughness Counter Surface	~1.6µm
Max. Sliding Velocity	0.52m/s
Temperature Range	-40 to 140 °C



The information supplied in this data sheet is believed to be accurate and reliable, was obtained by scientific and laboratory testing. However, since actual conditions of use are largely outside the control of Industrial Clutch Parts Ltd, it is suggested that this material be thoroughly tested and its suitability for use be determined before final acceptance.

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