

FTL131

✓ **General description:**

FTL131 is a rigid moulded friction material, dark grey in colour and having a non-asbestos basis of mineral fibres together with friction modifiers and a synthetic rubber binder system. It has a high coefficient of friction together with excellent resistance to fade and wear and is quiet in operation.

Both surfaces of **FTL131** are ground in production so that it may be bonded on either or it may be attached by rivetting. Although minor oil contamination does not damage FTL131 physically, the material is not suitable for use immersed in oil.

✓ **Application:**

Industrial drum and band-brakes.
Industrial clutches.
Crane and excavator brake/clutch linings.
Miscellaneous industrial devices.

✓ **Bonding:**

FTL131 may be bonded using any of the established adhesives recommended for friction material. However, to obtain the best results it is necessary to use a thermosetting adhesive.

✓ **Mating Surface**

A good quality, fine grained, pearlitic cast iron or cold rolled steel with a Brinell hardness of 180. Cast steels are not recommended

✓ **Recommended Operation Range:**

Pressure	
Dynamic (dry)	70 - 860 kN/m ²
Static	70 - 2410 kN/m ²

Max. rubbing speed	25 m/s
Max. continuous temperature	175 °C
Max. intermittent temperature	225 °C
Max. temperature	300 °C

✓ **Availability**

Sheets

610 long x 381 mm wide
Thickness range: 4.0 to 12.7 mm

Linings & discs:

Maximum length – 610mm
Maximum width – 300mm

✓ **Technical Data**

Static Friction Coefficient	0.4
Dynamic Friction Coefficient	0.38
Density	2g/cm ³
Tensile Strength	11.9 N/mm ²
Compressive Strength	51.7 N/mm ²
Shear Strength	5.86 N/mm ²
Hardness	75-85 Shore D
Thermal Conductivity	2.22W/m°C

✓ **Test Conditions**

Temperature Sensitivity

Application speed 15 m/s
Clamping pressure 0.61 MN/m²
Temperatures ranging from 50 to 350°C in steps of 25°C

Initial Bedding

Application speed 15 m/s
Clamping pressure 0.61 MN/m²
Average Temperature 140°C

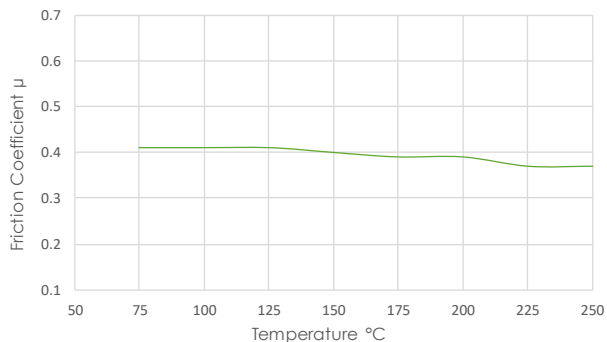
Pressure Sensitivity

Application speed 15 m/s
Average temperature 80°C

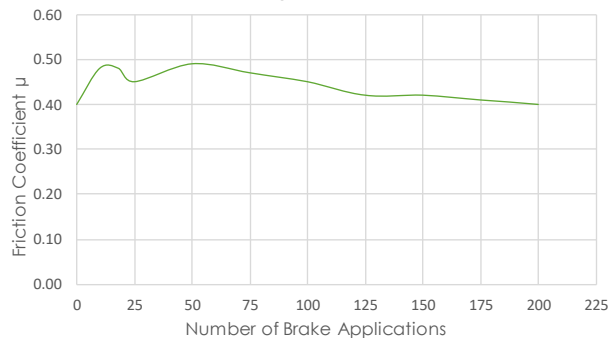
Speed Sensitivity

Clamping pressure 0.61 MN/m²
Average temperature 80°C

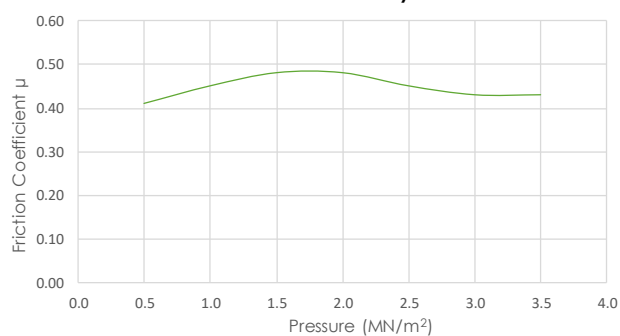
Temperature Sensitivity



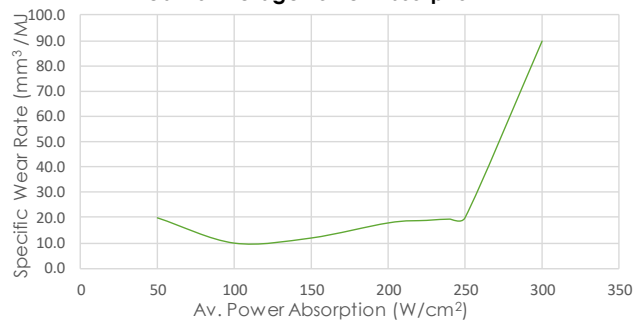
Initial Bedding Characteristics



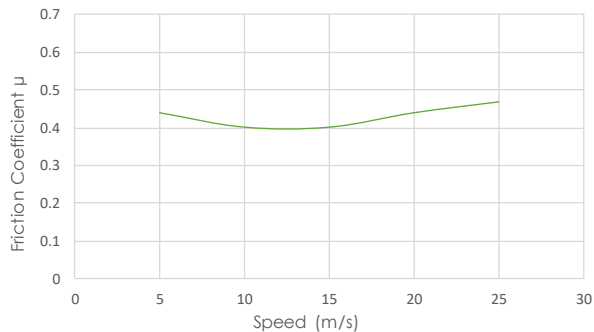
Pressure Sensitivity



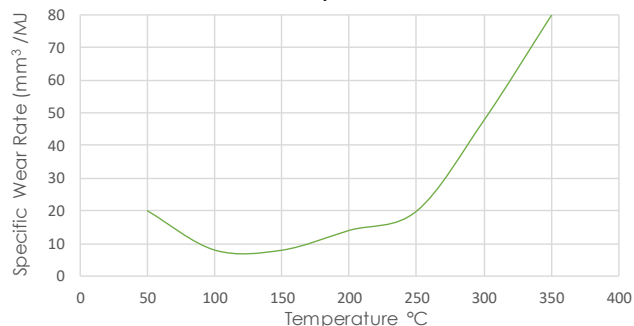
Wear vs Average Power Absorption



Speed Sensitivity



Wear vs Temperature



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 Friction Technology Ltd, it is suggested that this material be thoroughly tested and its suitability for use be determined before final acceptance.