

FTL130

✓ **General description:**

FTL130 is a rigid moulded friction material, having a non-asbestos basis of synthetic fibres in random dispersion. It contains no metallic particles and is grey in colour

FTL130 is a low friction material with excellent wear resistance. It has been designed specifically for applications where a smooth and noise free operation is required.

Although not affected physically by minor oil contamination this material is unsuitable for operating under oil-immersed conditions.

✓ **Application:**

Industrial Brakes.
Industrial Clutches.
Miscellaneous industrial devices.

✓ **Bonding:**

FTL130 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. The material is supplied ground on both surfaces, and so it may be bonded on either surface without any preparation providing it is kept clean.

N.B. Care should be taken to ensure that the temperature to which the material is to be subjected does not exceed the recommendations of the adhesive manufacturer.

✓ **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

✓ **Recommended Operation Range:**

Pressure	
Dynamic (dry)	70 - 700 kN/m ²
Static	70 - 2410 kN/m ²

Max. rubbing speed	25 m/s
Max. continuous temperature	150 °C
Max. intermittent temperature	180 °C
Max. temperature	225 °C

✓ **Availability**

Sheets

559 mm square
558 mm square
Thickness range – 3.2 to 25 mm
Thicker sizes are available up to 55 mm on demand.

✓ **Technical Data**

Static Friction Coefficient	0.12
Dynamic Friction Coefficient	0.15
Density	1.8g/cm ³
Tensile Strength	24 N/mm ²
Compressive Strength	111 N/mm ²
Shear Strength	28 N/mm ²
Gogan Hardness	<25Gg
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

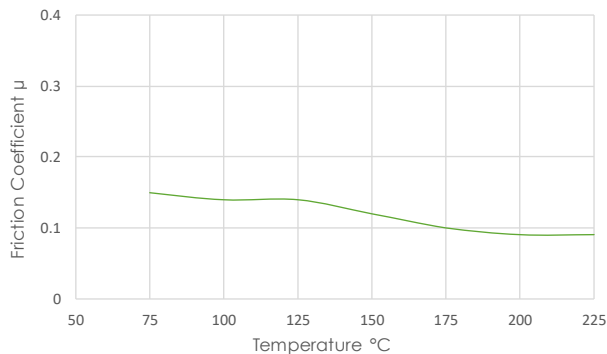
Pressure Sensitivity

Application speed 15 m/s
Average temperature 80°C

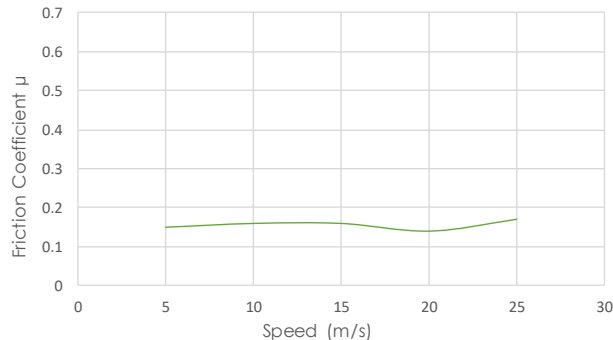
Speed Sensitivity

Clamping pressure 0.61 MN/m²
Average temperature 80°C

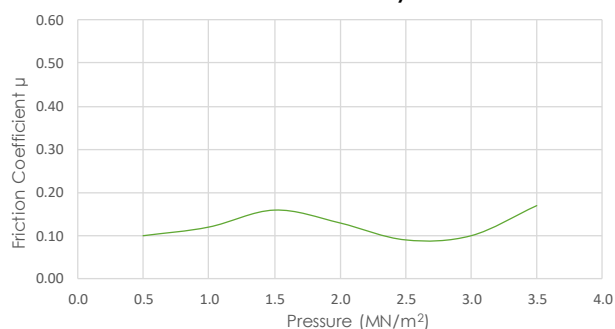
Temperature Sensitivity



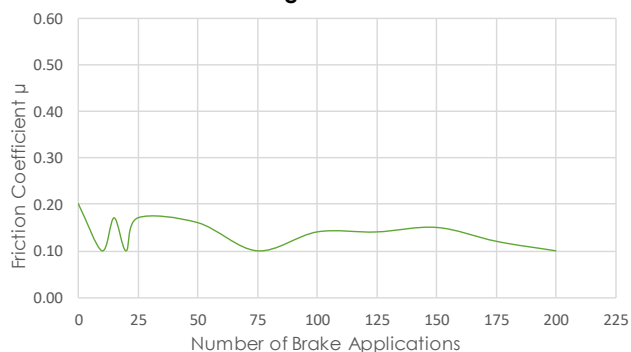
Speed Sensitivity



Pressure Sensitivity



Initial Bedding Characteristics



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.