

FTL127

✓ **General description:**

FTL127 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

FTL127 possesses high physical strength, and facings can be gear-cut on either the inside or outside circumference if required. It has a medium coefficient of friction with low wear and is suitable for use at medium to heavy duty levels

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

✓ **Application:**

Clutches for marine gearboxes Steering clutches.
Clutches for machine tools, presses and other industrial plant and machinery.
Miscellaneous industrial devices

✓ **Bonding:**

FTL127 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 200. Cast steels are not recommended

✓ **Recommended Operation Range:**

Pressure	
Dynamic	70 - 700 kN/m ²
Static	70 - 2410 kN/m ²
Max. rubbing speed	18 m/s
Max. continuous temperature	175 °C
Max. intermittent temperature	225 °C
Max. temperature	300 °C

✓ **Availability**

Sheets

750 long x 55 mm thick
558 long x 558 mm thick

Discs

Maximum diameter 819mm x 34mm thick

✓ **Technical Data**

Static Friction Coefficient	0.34
Dynamic Friction Coefficient	0.32
Density	1.9g/cm ³
Tensile Strength	28 N/mm ²
Cross-Break Strength	69 N/mm ²
Shear Strength	23 N/mm ²
Thermal Conductivity	0.9 W/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

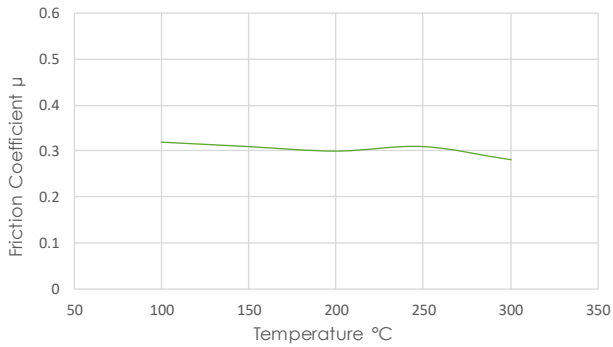
Pressure Sensitivity

Application speed 15 m/s
Average temperature 80°C

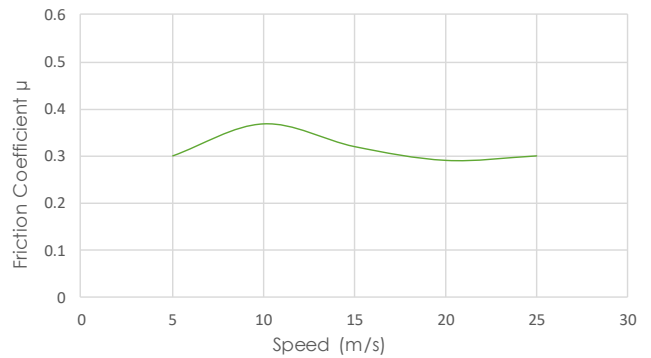
Speed Sensitivity

Clamping pressure 0.61 MN/m²
Average temperature 80°C

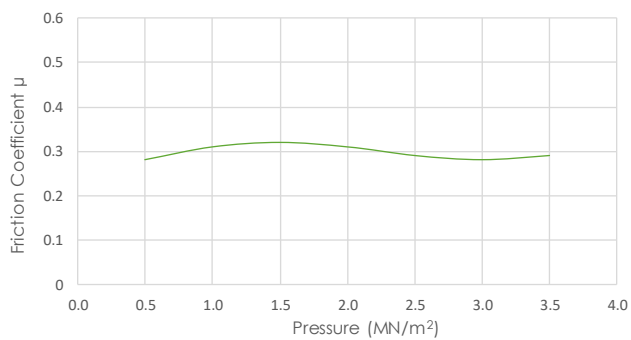
Temperature Sensitivity



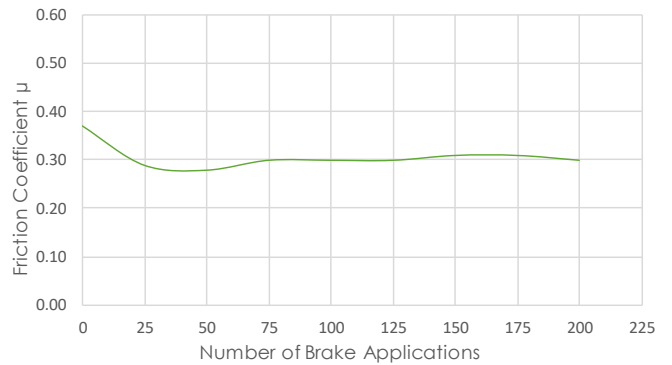
Speed Sensitivity



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.