

# FTL126

✓ **General description:**

**FTL126** is a rigid moulded friction material, light green in colour. **FTL126** is a non-asbestos basis of short steel filaments in a random dispersion to enhance its heat dissipation properties and strength. It incorporates a blend of carefully selected friction modifiers and a binder which has been specially developed to enhance its properties. Whilst not affected physically by slight oil contamination, this material is not intended to operate in oil.

✓ **Application:**

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

✓ **Bonding:**

**FTL126** 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 Operating Range:**

Pressure	
Dynamic	70 - 860 kN/m <sup>2</sup>
Static	70 - 2410 kN/m <sup>2</sup>
Max. rubbing speed	25 m/s
Max. continuous temperature	175 °C
Max. intermittent temperature	225 °C
Max. temperature	300 °C

✓ **Availability**

Sheets

660 long x 330 wide from 1.6 to 12.7mm  
660 long x 530 wide from 16 to 25.4mm

Linings & discs

Sizes on application

✓ **Technical Data**

<b>Static Friction Coefficient</b>	0.38
<b>Dynamic Friction Coefficient</b>	0.42
<b>Density</b>	2.3g/cm <sup>3</sup>
<b>Tensile Strength</b>	15 N/mm <sup>2</sup>
<b>Compressive Strength</b>	93 N/mm <sup>2</sup>
<b>Shear Strength</b>	12 N/mm <sup>2</sup>
<b>Rivet Holding Capacity</b>	86 N/mm <sup>2</sup>
<b>Thermal Conductivity</b>	1.034 W/m°C

✓ **Test Conditions**

Temperature Sensitivity

Application speed 15 m/s  
Clamping pressure 0.61 MN/m<sup>2</sup>  
Temperatures ranging from 50 to 350°C in steps of 25°C

Initial Bedding

Application speed 15 m/s  
Clamping pressure 0.61 MN/m<sup>2</sup>  
Average Temperature 140°C

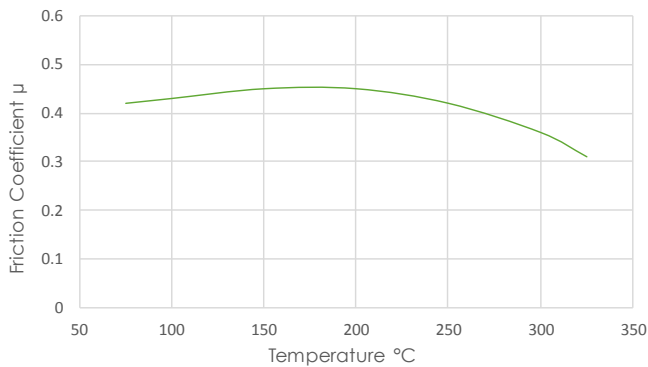
Pressure Sensitivity

Application speed 15 m/s  
Average temperature 80°C

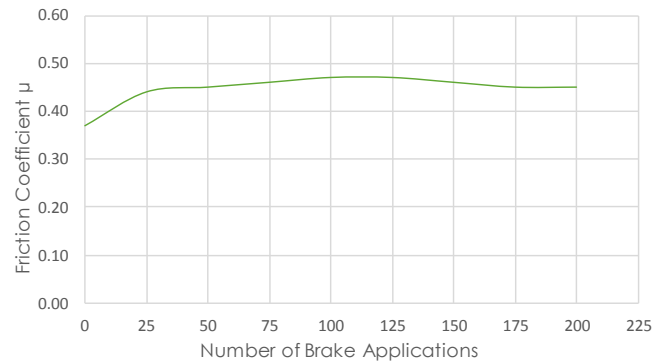
Speed Sensitivity

Clamping pressure 0.61 MN/m<sup>2</sup>  
Average temperature 80°C

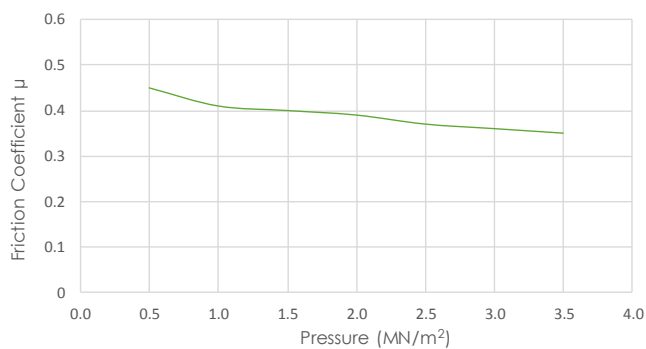
**Temperature Sensitivity**



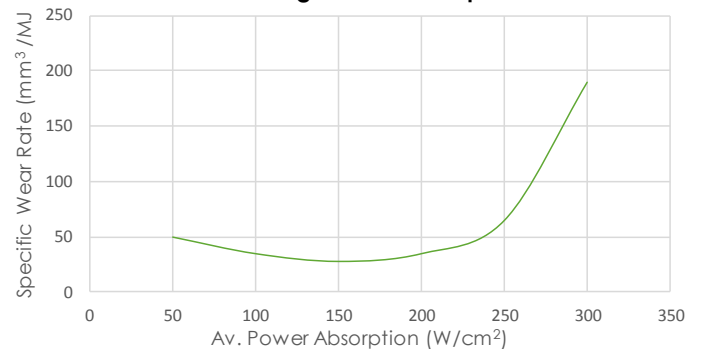
**Initial Bedding Characteristics**



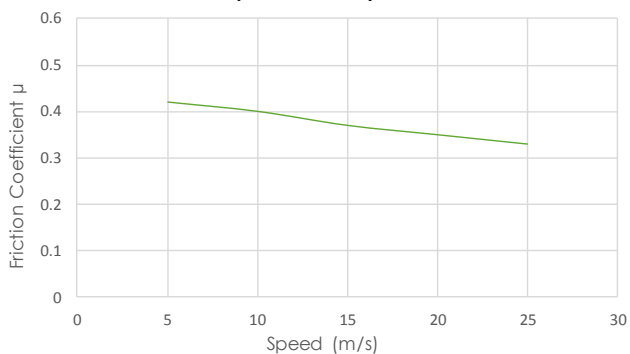
**Pressure Sensitivity**



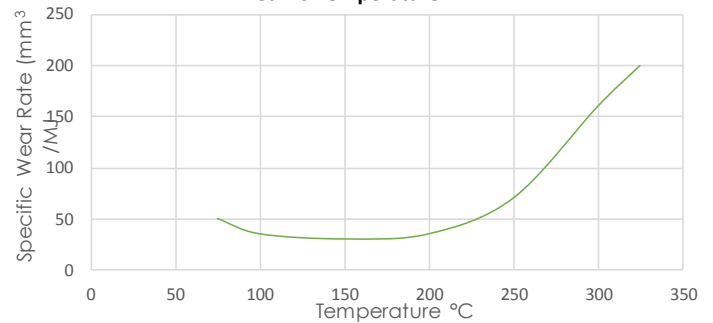
**Wear vs Average Power Absorption**



**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.