

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 Operation Range:

Pressure	
Dynamic	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 wide
Thickness range: 1.6 to 35mm

Linings & discs

Sizes on application

✓ Technical Data

Static Friction Coefficient	0.38
Dynamic Friction Coefficient	0.42
Density	2.3g/cm ³
Tensile Strength	15 N/mm ²
Compressive Strength	55.8 N/mm ²
Shear Strength	12 N/mm ²
Rivet Holding Capacity	86 N/mm ²
Thermal Conductivity	1.034 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

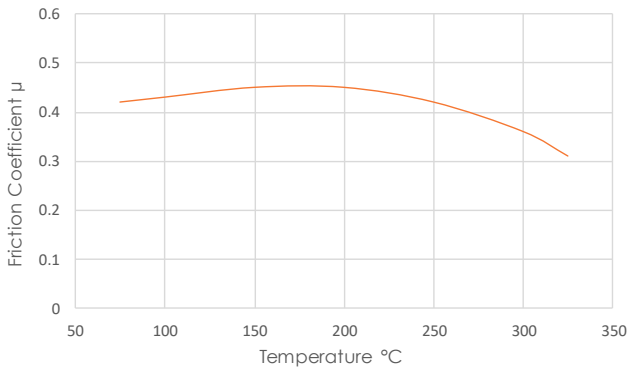
Pressure Sensitivity

Application speed 15 m/s
Average temperature 80°C

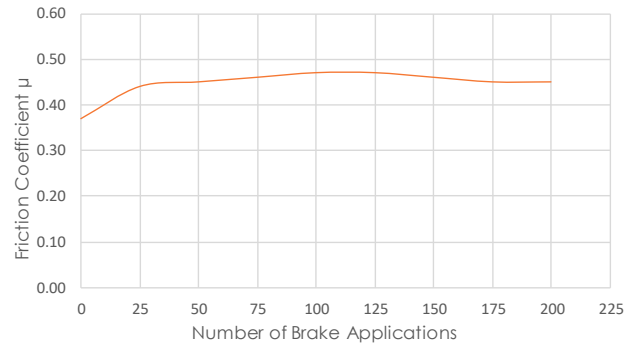
Speed Sensitivity

Clamping pressure 0.61 MN/m²
Average temperature 80°C

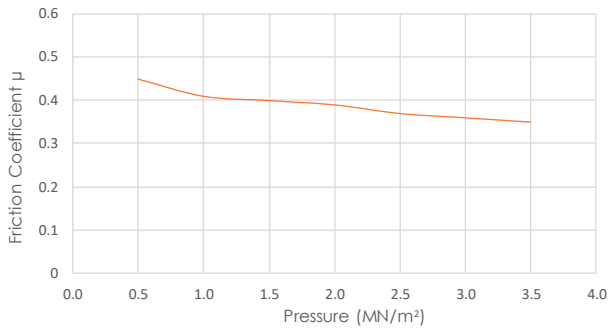
Temperature Sensitivity



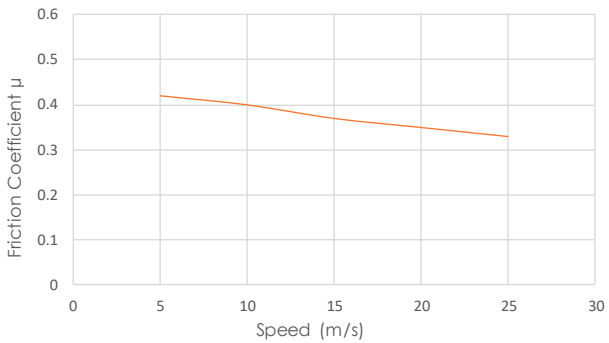
Initial Bedding Characteristics



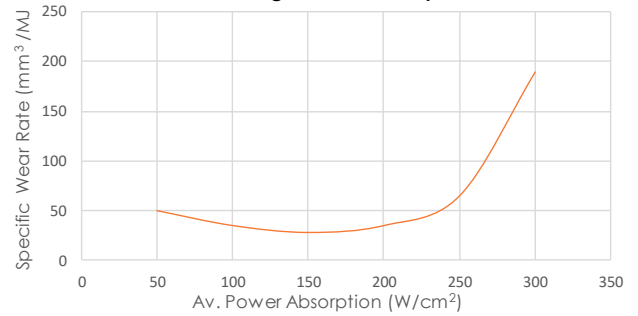
Pressure Sensitivity



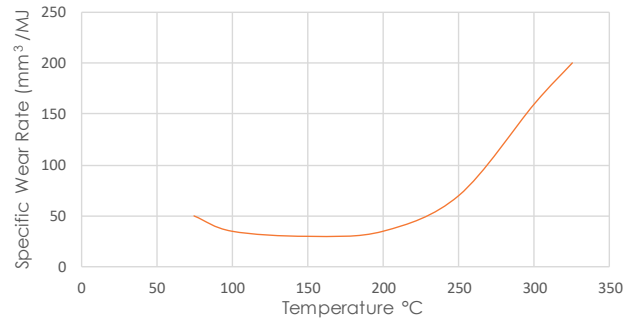
Speed Sensitivity



Wear vs Average Power Absorption



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