

FTL128

✓ General description:

FTL128 is a rigid moulded product. It is light brown in colour and contains a proportion of brass chipping to enhance its heat dissipation properties. This is a non-asbestos material, based on a blend of synthetic fibres with a specially developed resin binder.

FTL128 combines a medium friction coefficient with good resistance to fade and a low rate of wear. It machines well and discs can readily be gear cut for use in multi-plate clutches.

This material is suitable for use either dry or in oil immersed application.

✓ Application:

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

✓ Bonding:

FTL128 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 |

✓ Availability

Sheets

750 x 750 x 3.2 to 19 thick

432 x 406 x 3.2 to 22 thick

Discs

Maximum diameter 495 x 22mm thick

✓ Technical Data

| | |
|--|------------------------|
| Static Friction Coefficient (Dry) | 0.3 |
| Static Friction Coefficient (In oil) | 0.1 |
| Dynamic Friction Coefficient (Dry) | 0.38 |
| Dynamic Friction Coefficient (In oil) | 0.09 |
| Density | 1.78g/cm ³ |
| Tensile Strength | 32 N/mm ² |
| Compressive Strength | 159 N/mm ² |
| Shear Strength | 18.5 N/mm ² |
| Rivet Holding Capacity | 18.5 N/mm ² |
| Thermal Conductivity | 0.488 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

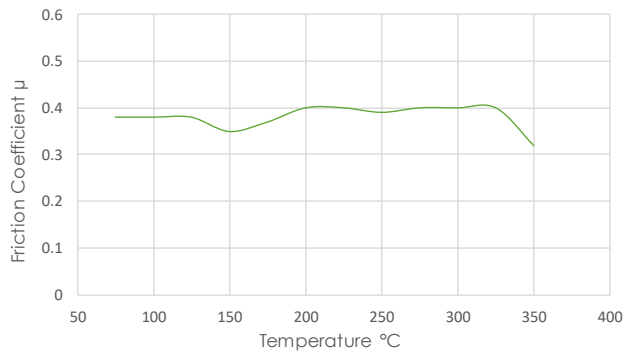
Average temperature 80°C

Speed Sensitivity

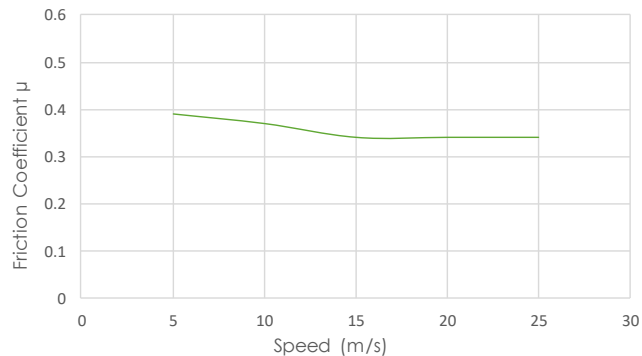
Clamping pressure 0.61 MN/m²

Average temperature 80°C

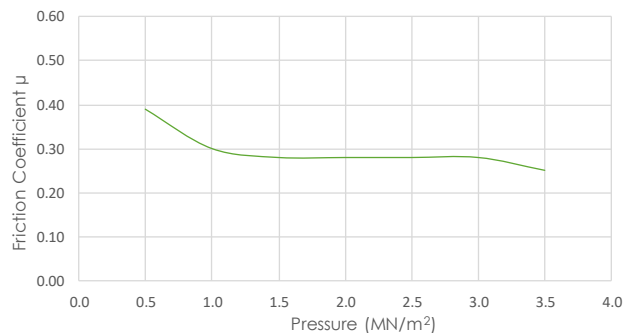
Temperature Sensitivity



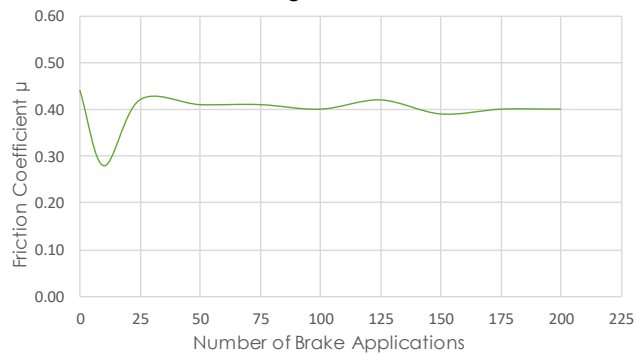
Speed Sensitivity



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.