

# FTL171

✓ **General description:**

**FTL171** is a resin impregnated textile material with metal components. **FTL171** has been designed for heavy-duty industrial brake applications. It has good mechanical resistance and is suitable for bonding and riveting. It is an oil resistant rigid material.

✓ **Application:**

**FTL171** is suitable for:

- Forging machinery
- Heavy duty static applications
- Holding mechanical structures
- Machinery mining industries

✓ **Mating surfaces**

The recommended mating surface for **FTL171** is a good pearlitic cast iron with a Brinell hardness of 150 to 200.

✓ **Bonding:**

**FTL171** may be bonded using any of the established thermosetting adhesives.

✓ **Availability**

- Sheet size 500mm x 500mm x 3.5mm up to 25mm thick
- Sheet size 650mm x 650mm x 3.5mm up to 13mm thick
- Sheet size 860mm x 670mm x 7mm up to 13mm thick

✓ **Recommended Operating Values:**

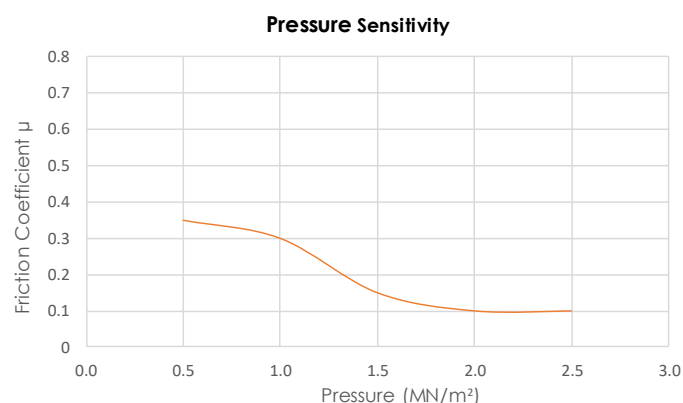
Maximum Intermittent Temperature	350°C
Maximum Continuous Temperature	250°C

✓ **Technical Data**

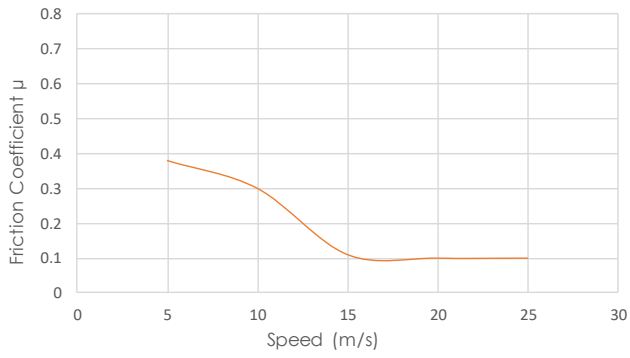
Static Friction Coefficient	0.45
Dynamic Friction Coefficient	0.35
Density	1.57 gr/cm <sup>3</sup>
Tensile Strength	45 N/mm <sup>2</sup>
Compressive Strength	412 N/mm <sup>2</sup>
Young Modulus	13.4 kN/mm <sup>2</sup>
Poisson Coefficient	0.252
Hardness	92 (Shore D)
Fading Temperature	260°C
Wear Rate	85 mm <sup>3</sup> /kWh
Ignition Loss	18%
Acetone Extraction	4%

✓ **Test Conditions**

Application speed (Pressure Sens)	10m/s
Clamping pressure (Speed Sens)	1 N/mm <sup>2</sup>
Temperature	100°C



### Speed Sensitivity



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.