

# FTL171M

✓ **General description:**

**FTL171M** is a resin impregnated textile material with metal components. **FTL171M** has been designed for heavy-duty industrial brake applications. It has excellent mechanical resistance and is suitable for bonding and riveting. It is an oil resistant rigid material.

✓ **Application:**

**FTL171M** is suitable for:

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

✓ **Mating surfaces**

The recommended mating surface for **FTL171M** is a good pearlitic cast iron with a Brinell hardness of 150 to 200.

✓ **Bonding:**

**FTL171M** 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:**

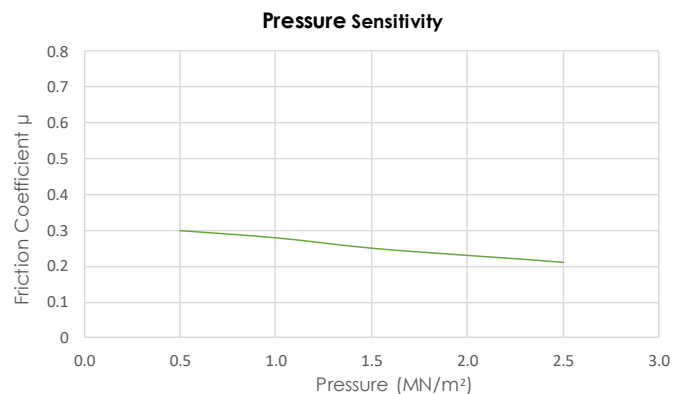
- Maximum Intermittent Temperature                      350°C
- Maximum Continuous Temperature                      250°C

✓ **Technical Data**

Static Friction Coefficient	0.45
Dynamic Friction Coefficient	0.35
Density	1.42 gr/cm <sup>3</sup>
Tensile Strength	70 N/mm <sup>2</sup>
Compressive Strength	360 N/mm <sup>2</sup>
Young Modulus	8.5 kN/mm <sup>2</sup>
Poisson Coefficient	0.19
Hardness	92 (Shore D)
Fading Temperature	260°C
Wear Rate	50 mm <sup>3</sup> /kWh
Ignition Loss	30%
Acetone Extraction	4%

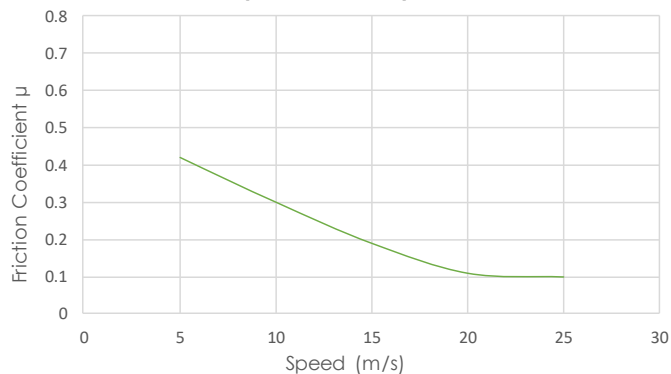
✓ **Test Conditions**

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