

FTL175

✓ **General description:**

FTL175 is grey moulded rigid friction material with a medium high friction coefficient reinforced with metal components.

FTL175 is recommended for machining, having excellent friction characteristics.

FTL175 consists phenolic resins with NBR bonding system, short fibres, friction modifiers, metal particles and fillers. It is an oil resistant Friction Material.

✓ **Application:**

FTL175 is well suited for calipers for industrial applications, friction washers, industrial clutches, industrial brakes and torque limiters.

✓ **Bonding:**

FTL175 is fully cured and suitable for bonding and riveting. Thermosetting adhesives are recommended.

✓ **Mating Surface**

The recommended mating surface for **FTL175** is pearlitic cast iron with a hardness of 150-200 Brinell.

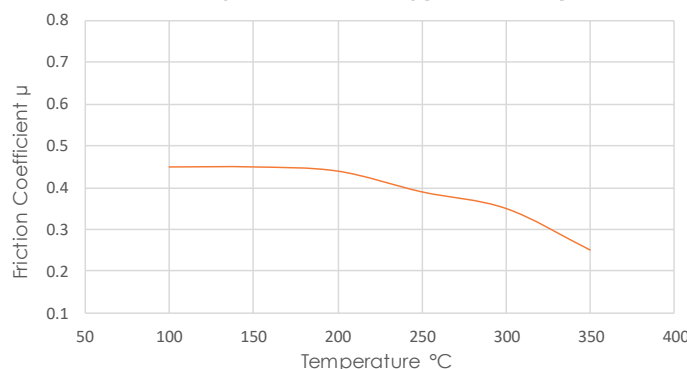
✓ **Recommended Operation Range:**

Max. continuous temperature 250 °C
 Max. intermittent temperature 350 °C

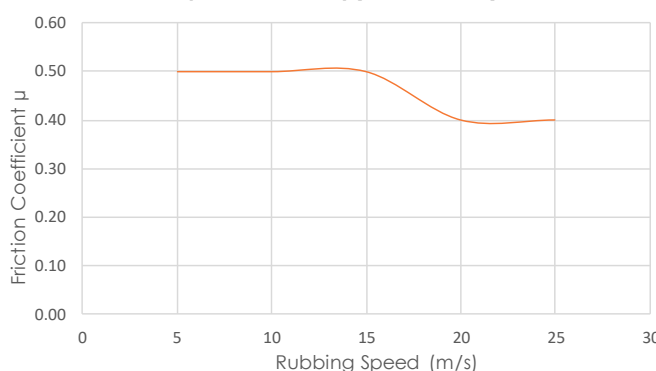
✓ **Technical Data**

Dynamic Friction Coefficient (10bar, 10m/s)	0.51
Static Friction Coefficient (15bar, 100°C)	0.62
Density (ASTM D792-91)	1.85 gr/cm ³
Tensile Strength (ASTM D638-10)	12 N/mm ²
Compressive Strength (UNE 53205)	112 N/mm ²
Young Modulus (ASTM D638-10)	2540 N/mm ²
Poisson Coefficient	0.21
Hardness (DIN 53505)	82(Shore-D)
Ignition Loss (ASTM D-2524)	45%
Wear Rate(10bar, 15m/s)	113 mm ³ /kWh
T° Fading (10bar, 10m/s)	>340°C

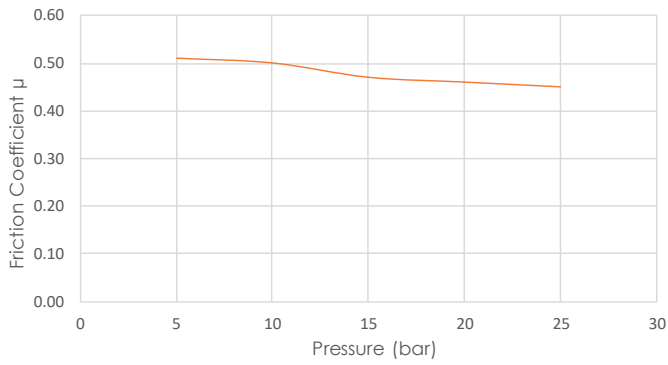
Temperature Sensitivity(15m/s, 10bar)



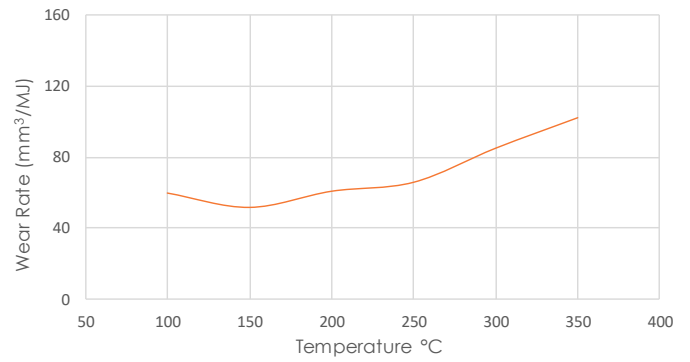
Speed Sensitivity(10bar, 100°C)



Pressure Sensitivity(10m/s,100°C)



Wear v Temperature (15m/s,10bar)



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.