

FTL141.1

✓ **General description:**

FTL141.1 is an extremely stable, high coefficient, rigid moulded material suitable for segments moulded to arcs, flat sheets and odd shapes.

FTL141.1 is suitable for on- or off-road applications where its high coefficient and excellent heat resistance are required.

✓ **Application:**

Industrial disc brakes.
Disc brakes for off-highway equipment.
Miscellaneous industrial devices

✓ **Bonding:**

FTL141.1 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 180 is recommended, however this material is specifically designed so that it can be used with softer mating materials if required. Cast steels are not recommended.

✓ **Recommended Operation Range:**

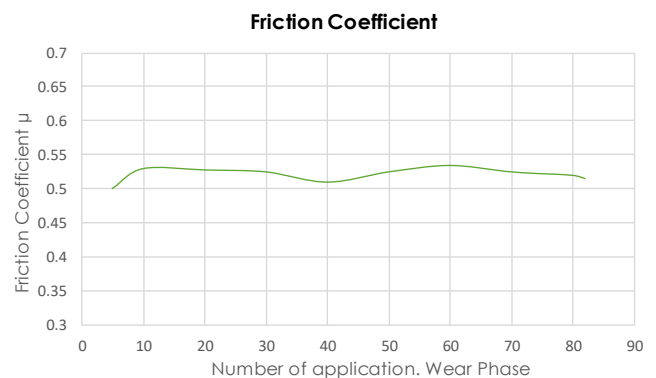
Max. Pressure	1.72 MN/m ²
Max. rubbing speed	25 m/s
Max. continuous temperature	288 °C
Max. Intermittent temperature	343 °C
Min. temperature	-23 °C

✓ **Availability**

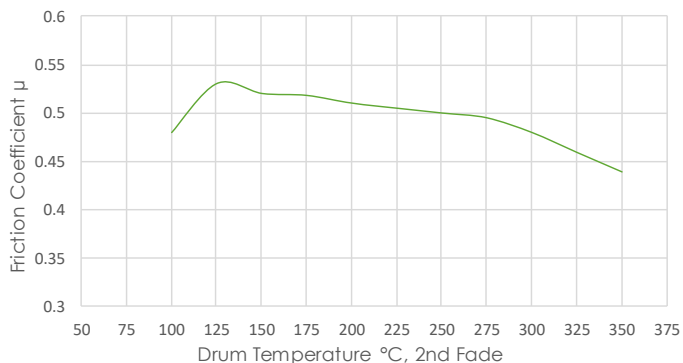
Sheets size 711mm x 914 mm x 4.8mm up to 38 mm thick
Special shapes and disc on request.

✓ **Technical Data**

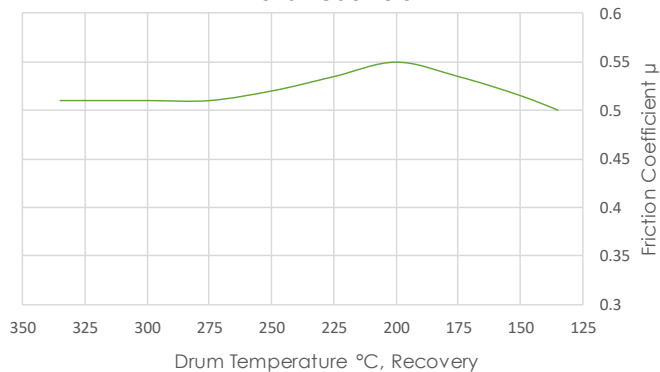
Static Friction Coefficient (Normal)	0.52
Static Friction Coefficient (Hot)	0.51
Dynamic Friction Coefficient (93°C)	0.61
Dynamic Friction Coefficient(204°C)	0.5
Density	1.85 g/cm ³
Tensile Strength	21.4 N/mm ²
Flexural Strength	37.2 N/mm ²
Compressive Strength	73.1 N/mm ²
Shear Strength	39.3 N/mm ²
Gogan Hardness	43Gg
Wear Rate	119mm ³ /kWh



Friction Coefficient



Friction Coefficient



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.