



Material: FTL130

General Description

FTL130 is a rigid moulded non-asbestos friction material, having a basis of inorganic fibres. It can be manufactured in the form of blocks, sheets, rings and other special shapes.

FTL130 is a low friction material with excellent wear resistance. It has been designed specifically for applications where a smooth and noise free operation is required.

Application

- Industrial brakes
- Industrial clutches

Technical Data

Friction
 μ for design purposes 0.15

Physical Properties

Density 1.9 x 10³kg/m²
 Thermal Conductivity 2.2 Wm °C
 Hardness Rockwell 'R' 80
 Ultimate Tensile Strength 24 MN/m²
 (3,500 lb/in²)
 Ultimate Compressive Strength 41 MN/m²
 (6,000 lb/in²)
 Ultimate Shear Strength 28 MN/m²
 (4,000 lb/in²)

Recommended Operating Range

Unit Pressure 70 - 2000 kN/m²
 (10 - 300 lb/in²)
 Maximum Rubbing Speed 18m/s (60ft/s)
 Maximum Temperature 350°C
 Maximum Continuous Temp. 175°C

NOTE: The continuous temperature quoted is for constant slip conditions. For intermittenet applications, bulk temperature of 250°C are acceptable for long periods of time.

Recommended Mating Surface

Good quality fine grained pearlitic cast iron to BS1452: 1977, and at least Grade 200 should be used to ensure adequate mechanical strength of the rotating member. Full details of recommendations on surface finish and trace element content may be obtained on request from Friction Technology Ltd.

Bonding

FTL130 can be bonded with any of the established bonding adhesives, although for the best results, thermosetting adhesives should be used. The material is supplied ground on both surfaces, and so it may be bonded on either surface without any preparation providing it is kept clean.

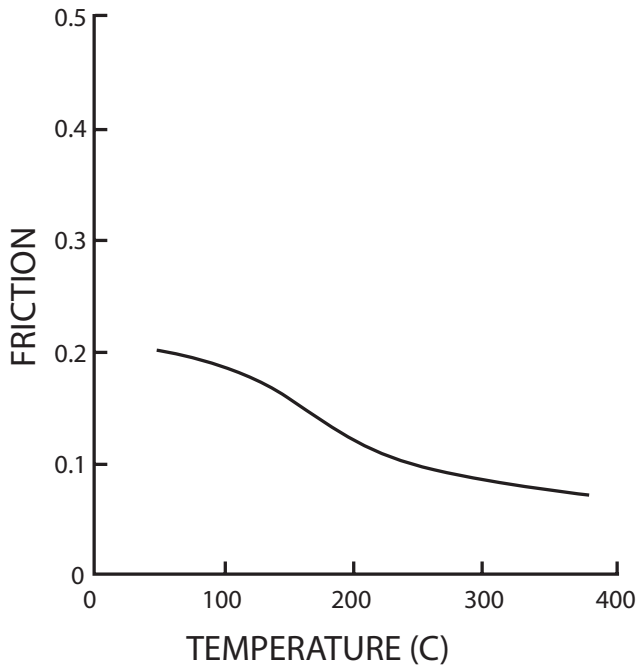
Machining Data

Friction Technology Ltd will supply information on the cutting, drilling and grinding of friction materials on request.

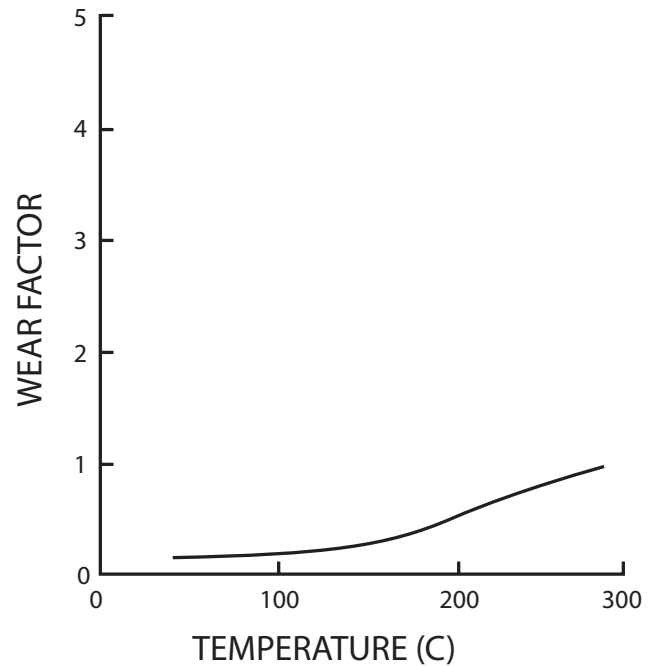


Material: FTL130

FRICITION TEMPERATURE
FTL130



WEAR TEMPERATURE
FTL130



Size Range

Sheets

Up to 530mm x 400mm x 20mm thick.

Blanks and Solids

Up to 450mm diameter x 60mm thick.

Up to 150mm diameter x 125mm thick.

Rings

Up to 800mm diameter x 170mm flange width x 20mm thick.