



Material: FTL177

Description

Developed upon the base product FTL177 short fibre technology has been used to produce a low wearing material suited to constant operation. FTL177 is a low coefficient friction material for slipping applications

Applications

Low frictional torque limiting and tension brake applications.

Adhesives

The use of any well known thermosetting adhesive is recommended.

Rubbing Surfaces

Good quality, fine grained pearlitic cast iron with Brinell hardness of 150-200 is recommended.

Physical Properties

Density g/cm	1.80-1.90
Hardness (SHORE-D)	75-80
Acetone Extraction	<1.5%
Ignition Loss	36-40%

Mechanical Properties

• Tensile strength N/mm ² (ASTM D-638)	16.45
• Compressive strength N/mm ² 10% (UNE 53205)	83
• Ultimate compressive strength N/mm ² (UNE 53205)	100.5

Friction Properties

- Friction coefficient (dynamic) μ (see graph) 0.35 \pm 0.05
- Wear rate @ 79N, 7m/s) F.A.S.T 34-54mm³/Kwh
- F.A.S.T. test conditions
 - F=79N v=7m/s t=90min <250°C
 - F=100N v=7m/s t= <285°C
 - F=100N v=11m/s t=40min <285°C

Recommended operating temperatures (max):

Continuous operation	250°C
Intermittent Operation	350°C

Rubbing surfaces

Good quality, fine grained pearlitic cast iron with Brinell hardness of 150-200 is recommended.

μ (friction coefficient vs temperature @ 79N / 7m/s)

