



Material: FTL171

Description

Designed for heavy duty industrial brake applications. It consists in a resin impregnate textile based material with metallic components, has good mechanical resistance.

Applications

Typical applications of such a material include:
Brake pads on heavy duty industrial presses. Geared brake discs in industrial machinery.

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	3 1.65 ± 0.05
Hardness (SHORE-D)	86-93
Acetone extraction	< 3%
Ignition loss	20±5%

Mechanical Properties

-Tensile strength N/mm ² (ASTM D-638)	47.52
-Compressive strength N/mm ² 10% (UNE-EN ISO 604)	66
-Ultimate compressive strength N/mm ² (UNE-EN ISO 604)	410

Friction Properties

• Friction coefficient (dynamic) μ (See graph)	0.5 ± 0.05
• Wear rate (@ 79N, 7m/s) F.A.S.T	86-110mm ³ /Kwh
• Condiciones F.A.S.T. test (max temperatura) F=79N v=7m/s t=90min	<250°C
F=100N v=11m/s t=25min	<250°C

Recommended Operating Times

- Continuous operation 250 °C
- Intermittent operation 350 °C

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

