



FTL173

A flexible resin bonded material designed for medium / heavy duty industrial applications. Its soft form yet hard wearing characteristics allow it to work silently while producing little wear itself or on working surfaces. Other property is the high frictional coefficient.

Applications

Its properties make it highly suited to indoor / warehouse crane brakes and electro-mechanical brake / clutch systems.

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

o Density g/cm ³	1.67-1.77
o Hardness (SHORE-D)	50-60
o Acetone extraction	<2%
o Ignition loss	44-47%

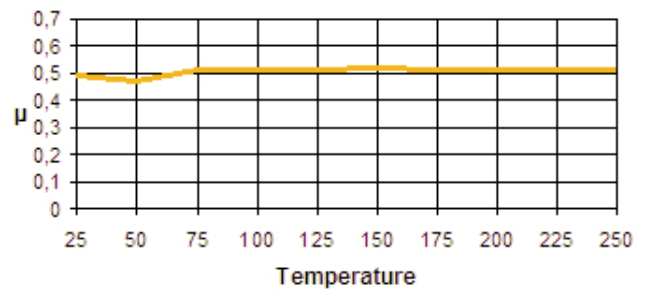
Mechanical Properties

o Tensile strength N/mm ² (ASTM D-638)	2.9
o Compressive strength N/mm ² 10% (UNE 53205)	13.9
o Ultimate compressive strength N/mm ² (UNE 53205)	190

Friction Properties

o Friction coefficient (dynamic) μ (See graph)	0.5 \pm 0.05
o Wear rate (@ 79N, 7m/s) F.A.S.T	45 - 70mm ³ /Kwh
o F.A.S.T. test conditions (max temperature)	
F=79N v=7m/s t=90min	<250 °C
F=100N v=7m/s t=	
F=100N v=11m/s t=45min	<304°C
o Recommended operating temperatures (max) :	
Continuous operation	250 °C
Intermittent operation	350°C

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



The information supplied in this data sheet is believed to be accurate and reliable, and was obtained by scientific and laboratory testing. However, since actual conditions of use are largely outside the control of FRICTION TECHNOLOGY LIMITED, it is suggested that this material be thoroughly tested and its suitability for use be determined before final acceptance.