



## Material: FTL097



### DESCRIPTION:

FTL097 is a rigid moulded friction material having a non-asbestos base. It is grey in colour and incorporates a blend of selected friction modifying agents. This complex matrix of ingredients is consolidated with a specially developed binder system.

FTL097 has a high friction coefficient, which is combined with an excellent resistance to fade and wear. Its high performance characteristics are particularly suited to severe duty applications.

This material although not intended to operate in oil is not physically damaged by moderate oil contamination.

**Material is certified to non-sparking. "DMT" data sheet is available upon request.**

It has excellent resistance to fade and wear.

### APPLICATIONS:

- Brake pads for cranes
- Geared discs
- Punch-die press blocks
- Heavy duty miscellaneous industrial uses.

### PHYSICAL PROPERTIES:

• Density g/cm	1.94 – 1.99
• Hardness (SHORE-D)	87 - 90
• Acetone extraction	<2%
• Ignition loss	35-37%

### FRICTION PROPERTIES:

- Friction coefficient (dynamic) $\mu$   
(See graph) 0.38 $\pm$  0.05
- Wear rate (@ 79N, 7m/s)  
F.A.S.T 35-40mm<sup>3</sup> /Kwh

### F.A.S.T. test conditions (Fade temperature)

The FAST is a 90 minute test at constant pressure and velocity, which reports response of friction coefficient vs temperature. These are the maximum temperatures resistance before material lost coefficient.

F=79N v=7m/s t=90min	<250°C
F=100N v=7m/s t=90min	<300°C
F=100N v=11m/s t=80min	<355°C

### RECOMMENDED OPERATING TEMPERATURES (max):

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

### 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.

