



## FTL163

Developed for industrial applications, FTL163 is a rigid, asbestos-free, moulded friction material. The most noted of properties of this material are its hardness and mechanical strength. The material comprises mainly of phenolic resins with NBR bonding system, short fibres, friction modifiers, metallic particles and fillers.

### APPLICATIONS

Geared discs  
Punch-die press blocks

### ADHESIVES

The use of any well known thermosetting adhesive is recommended.

### RUBBING SURFACES

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

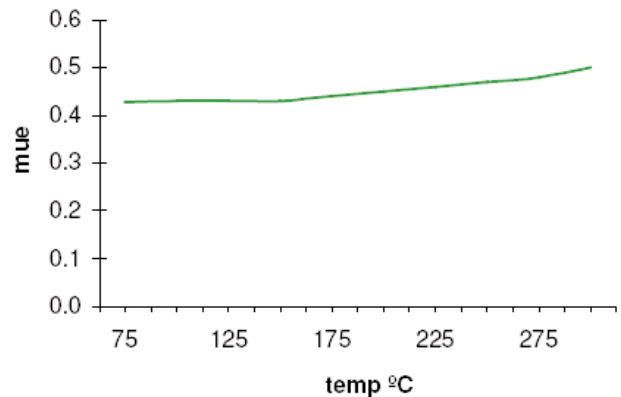
### MECHANICAL PROPERTIES

Density g/cm <sup>3</sup>	1.81 – 1.89
Hardness (SHORE - D)	81 - 90
Tensile strength MPa (ASTM D-638)	220 -290
Compressive strength MPa 10% (UNE-EN ISO 604)	500 - 650
Ultimate compressive strength MPa (UNE-EN ISO 604)	1120 - 1170
Acetone extraction	< 1%
Ignition loss	38.5 – 43.8%

### FRICITION PROPERTIES

Friction coefficient (dynamic) (see graph)	0.43 + 0.05
Friction coefficient (static)	0.41
Wear rate (@ 79N, 7m/s, 300°C) - F.A.S.T	39.8 – 64mm <sup>3</sup> /kwh
Recommended operating temperatures (max):	continuous operation 250°C intermittent operation 350°C

**mue vs temperature (F.A.S.T const frict mode) @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.