



Material: FTL142.1

General Description

Developed for industrial applications, FTL142.1 is a rigid, asbestos-free, moulded material. It is a heavy-duty friction material with very high mechanical properties

Application

- Various industrial applications.
- Static Brakes
- Gear Tooth Discs

Physical Properties

- Density g/cm 1.74
- Hardness (SHORE-D) 85-90
- Acetone extraction <0.1%
- Ignition loss 30-35%

Mechanical Properties

- Tensile strength N/mm² (ASTM D-638) 18.56
- Compressive strength N/mm² 10% (UNE 53205) 23.35
- Ultimate compressive strength N/mm² (UNE 53205) 127.5

Friction Properties

- Friction coefficient (dynamic) μ (See graph) 0.45 \pm 0.05
- Wear rate (@ 79N, 7m/s) F.A.S.T 90mm³ /Kwh

F.A.S.T Test Conditions (max temperature)

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

- F=79N v=7m/s t=90min <250°C
- F=100N v=7m/s t=
- F=100N v=11m/s t=25min <240°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.

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

