



Material: FTL211

Description

This is a rigid moulded product with a non-asbestos basis of fibres in random dispersion which has been developed for automotive brake lining, crane and excavators band brake linings and industrial brakes. Selected friction modifiers are bound by a specifically developed rubber/resin binder system that has a major influence in determining both the friction performance characteristics and strength of material.

Physical properties

- Hardness (SHORE-D) 75+
- Specific Gravity 2.00
- Ultimate Tensile Strength 15 N/mm² (2175 psi)
- Ultimate Shear Strength 15 N/mm² (2175 psi)
- Ultimate Compressive Strength 75 N/mm² (10875 psi)

Friction properties

- Friction coefficient (dynamic) μ (See graph) 0.39
- Wear rate 22mm³ /MJ

Recommended operating temperatures (max):

- Continuous operation 250°C
- Intermittent operation 325 °C
- Operating Pressure (recommended) 0.07 – 1.5N/mm² (10 – 218 psi)
- Maximum Rubbing Speed 25 m/s (5000 ft/min)

Mating surfaces

Close grained cast iron, forged or cold rolled steel should be 180 Brinnell or over

Sizes

- Sheet lengths (nominal) up to 1000 mm
- Thickness 2mm to 12.5mm
- Width up to 200mm

μ (friction coefficient) vs temperature

