

D3751 Product Data Sheet

General Description

D3751 is a rigid moulded, resin based material, containing non-asbestos fibres in a random dispersion with selected friction modifiers. It has a medium-high coefficient of friction with a good resistance to fade and wear. Both surfaces are ground during manufacture so that it can be either bonded or riveted to metal parts.

Applications

Wind turbine yaw brakes.

Bonding

D3751 may be bonded using any of the established adhesives recommended for friction material. However, to obtain the best results it is necessary to use a thermosetting adhesive.

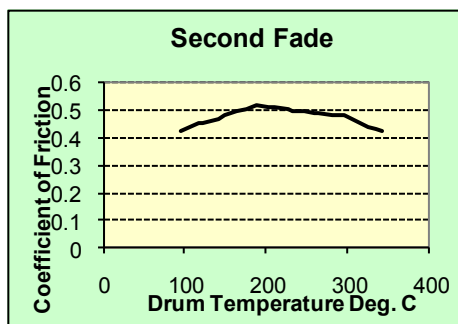
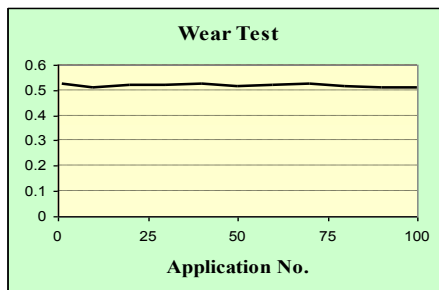
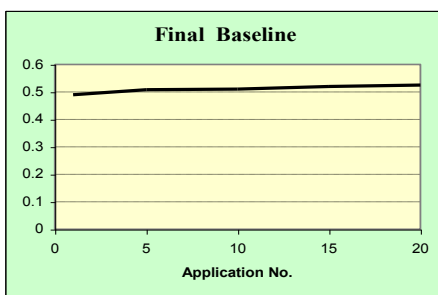
Mating Surface

A good quality, fine grained, pearlitic cast iron or cold rolled steel with a Brinell hardness of 180. Cast steels are not recommended.

Availability

Customer specific pad configuration

Sheets 3.2mm—25.4mm.thick. Sheet size to be established.



TECHNICAL DATA

Friction

μ for design purposes : Static (cold) 0.52
Dynamic 0.48

Recommended Operating Range

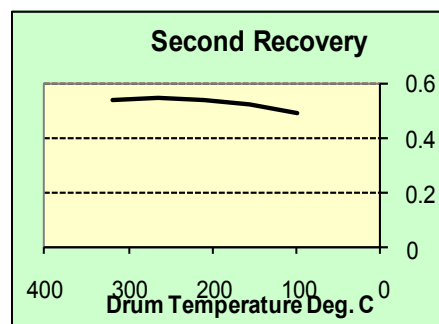
Pressure : 2100 kN/m²
Max. rubbing speed 25 m/s (82 ft/s)
Max. continuous temperature 180°C
Max. intermittent temperature 275°C
Max. temperature 325°C

TEST CONDITIONS

Speed 417rpm
Pressure 1034 kN/m²
Temperature Ambient to 340°C

PHYSICAL PROPERTIES

Density 2.26 g/cc minimum
Ultimate tensile strength 35.0 MN/m²
Ultimate compressive strength 59.2 MN/m² (8,600 lbf/in²)
(All physical properties shown above are all mean values)



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 FEROTEC FRICTION LIMITED, it is suggested that this material be thoroughly tested and its suitability for use be determined before final acceptance.

Issue 2 Nov 10

