



Material: FTL130

General Description

FTL130 is another non-asbestos, semi-flexible friction material from the Dynamex range. It is available in roll form and is suitable for use under dry operating conditions only (i.e. it is unsuitable for use in oil).

As with other materials from this range, FTL130 is sufficiently flexible, when supplied in rolls, to make fitting to curved metal parts a relatively simple operation, after which the heat generated in service will increase its strength and stiffness. Alternatively, FTL130 can be heat treated in an oven at a temperature of between 200 & 230°C for a period of not less than 60 minutes, either before or after fitting.

The frictional characteristics of FTL130 in both its initial flexible and heat treated states are virtually identical. It exhibits excellent temperature and wear resistance and is quiet in operation. This material is manufactured with a ground surface on both sides so may be bonded on either.

This material was specifically developed for attaching to brake-shoes by bonding and is unsuitable for rivetting.

Application

Industrial drum and band-brakes
Crane and excavator brake and clutch linings.
Miscellaneous industrial devices

Bonding

FTL130 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.

TECHNICAL DATA

Friction

for design purposes: Static (cold) 0.35
Dynamic 0.38

Recommended operating range

Pressure

Dynamic 70 - 860 kN/m² (10 - 125 lbf/in²)
Static 70 - 2410 kN/m² (10 - 350 lbf/in²)

Max. rubbing speed 25 m/s (82 ft/s)
Max. continuous temperature 150 0C
Max. intermittent temperature 250 0C
Max. temperature 325 0C

Size range

Roll
Lengths: 7.5 metres up to & including 6.4 mm thick
5.0 metres 6.5 mm & above
Maximum width: 330mm
Thickness range: 3.0 to 12.7mm

