

D3917 Product Data Sheet

General Description

D3917 is one of the Ferotec range of non-asbestos friction materials. It is a rigid, moulded product and is manufactured from a variety of mineral fibres. D3917 has a higher friction coefficient when compared with D3924. D3917 is not suitable for operating in oil. The frictional characteristics of D3917 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 riveting.

Applications

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

Bonding

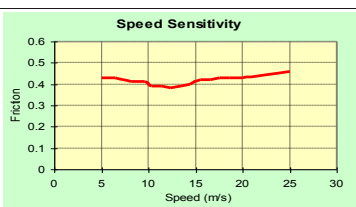
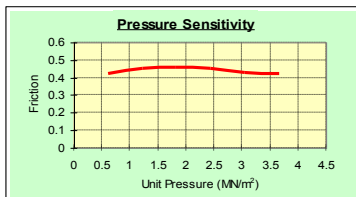
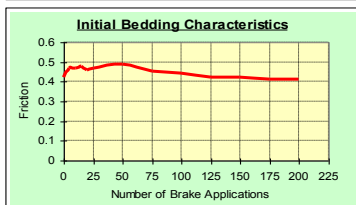
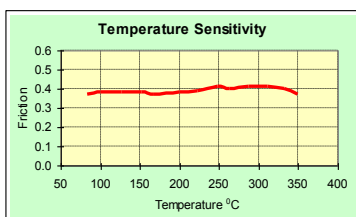
D3917 may be bonded using any of the established adhesives recommended for friction material. However, to obtain the best results it is necessary to use a thermosetting adhesive.

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

- Sheet size 660mm x 330mm x 3.2 up to 12.7mm thick
- Sheet size 660mm x 530mm x above 12.7mm to 32.0mm thick
- Special shapes and discs on request



TECHNICAL DATA

Friction

μ for design purposes :	Static (cold)	0.42
	Dynamic	0.45

Recommended Operating Range

Pressure	Dynamic	70-860 kN/m ²
	Static	70-2,410 kN/m ²
Max. rubbing speed		25 m/s
Max. continuous temperature		150°C
Max. intermittent temperature		250°C
Max. temperature		325°C

Test Conditions

Application Speed	15m/s
Clamping pressure	0.61 MN/m ² (88.5 ibf/in ²)
Average temperature	Initial Bedding 140°C
Average temperature	Pressure Sensitivity / Speed Sensitivity 80°C

PHYSICAL PROPERTIES

Density	1.71 g/cc
Ultimate tensile strength	7.6 MN/m ² (1,100 ibf/in ²)
Ultimate compressive strength	45.0 MN/m ² (6,550 ibf/in ²)
Ultimate shear strength	5.2 MN/m ² (750 ibf/in ²)
Rivet holding capacity	65.4 MN/m ² (9,500 ibf/in ²)
Hardness (Shore D)	75

(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.

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