

D3924 Product Data Sheet

General Description

D3924 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 and other non-metallic substances in random dispersion. D3924 has a marginally lower friction coefficient when compared with D3917 but has been developed to retain its excellent friction stability and wear resistant properties. This material is also ground on both surfaces during manufacture and is therefore suitable for bonding on either side. D3924 is not suitable for operating in oil.

Applications

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

Approvals

For automotive brake shoes:
TÜV
Bendix
AP Lockheed

Bonding

D3924 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.

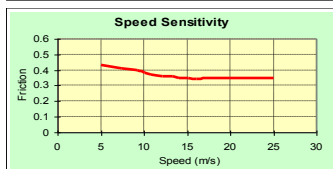
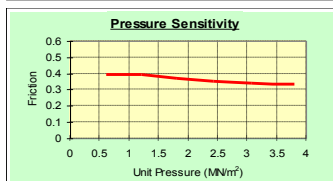
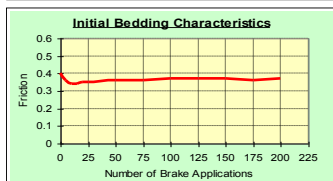
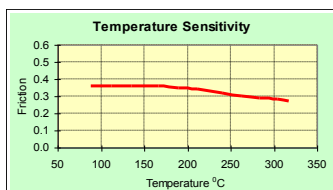
Mating Surface

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

Availability

- Sheets size max length 1000 long x 330mm wide x 1.6 up to 10.0mm thick
- Special shapes and discs on request

TECHNICAL DATA



Friction

μ for design purposes :
Static (cold) 0.32
Dynamic 0.35

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		225°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	2.05 g/cc
Ultimate tensile strength	13.2 MN/m ² (1,910 ibf/in ²)
Ultimate compressive strength	55.8 MN/m ² (8,100 ibf/in ²)
Ultimate shear strength	8.7 MN/m ² (1,260 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.

Issue 5 Jun 10