Ferotec Friction Ltd

DMZAF Product Data Sheet

General Description

DMZAF is a closely woven, semi-rigid friction material, brown in colour. It is based on a yarn formed from a blend of glass and synthetic fibres, together with a copper wire to enhance its strength and heat dissipation properties. The impregnant that it contains is the same as previously used in MZ41, an asbestos grade which was well regarded for many years for its reliability, resistance to wear and frictional stability. **DMZAF** has a high coefficient of friction and is ideally suited for a variety of industrial applications but should not be used under oil immersed conditions. To help during fitting to brake shoes and bands it can be softened and made more pliable by warming in a bonding oven to between 150 & 180°C for sufficient time for the heat to penetrate the fabric.

Applications

Industrial drum and band-brakes
Industrial clutches
Marine towing winches
Miscellaneous industrial devices

Bonding

DMZAF 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.

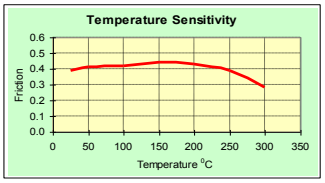
Mating Surface

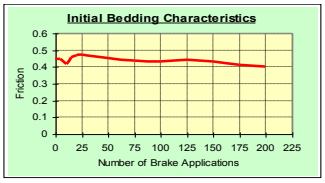
A good quality, fine grained, pearlitic cast iron or cold rolled steel with a Brinell hardness of 200. Cast steels are not recommended.

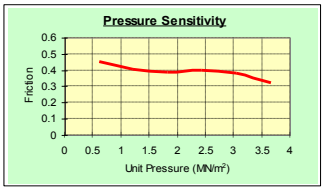
Availability

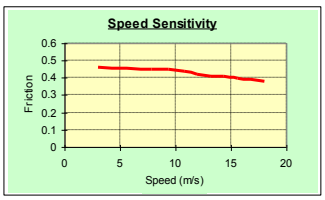
- Roll

Length	10.0 Metres
Width	20 to 330mm
Thickness range	4.0mm to 12.7mm









TECHNICAL DATA

Friction

μ for design purposes :	Static (cold)	0.40
	Dynamic (dry)	0.38

Recommended Operating Range

Pressure	Dynamic (dry)	70-700 kN/m² (10 - 100 lbf/in²)
	Static	70-2,450 kN/m² (10 - 350 lbf/in²)
Max. rubbing speed	18 m/s	
Max. continuous temperature	150°C	
Max. intermittent temperature	200°C	

Test Conditions

Application Speed	15m/s	
Clamping pressure	0.61 MN/m³ (88.5 ibf/in²)	
Average temperature	Initial Bedding	140°C
Average temperature	Pressure Sensitivity / Speed Sensitivity	80°C

PHYSICAL PROPERTIES

Density	1.35 g/cc
Ultimate tensile strength	27.0 MN/m² (3,900 ibf/in²)
Ultimate compressive strength	133 MN/m² (19,300 ibf/in²)
Ultimate shear strength	12.0 MN/m² (1,740 ibf/in²)
Rivet holding capacity	97.5 MN/m² (14,150 ibf/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.

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