

MECHANICAL EQUIPMENT

# Products

## Friction Linings

MECHANICAL EQUIPMENT

# Products

## Friction Linings

ZA GOLD

# Ferotec Friction Ltd

## ZAGOLD Product Data Sheet

### General Description

**ZAGOLD** is a solid woven friction material. It is based on yarn spun from a blend of glass and synthetic fibres together with a fine brass wire to enhance its strength and heat dissipation properties. The impregnant has been specially developed to give it good frictional properties combined with a fair degree of flexibility. It has a high coefficient of friction with excellent fade resistance and is particularly suitable for mine winder brakes. 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. This material is not suited to operate in oil-immersed conditions.

### Applications

Industrial drum and band brake linings  
 Mine winder brake linings

### Bonding

**ZAGOLD** 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

- **Roll**  
 Length 10.0 Metres  
 Width 20 to 510mm  
 Thickness range 12.7mm to 25.4mm
- Sheet size 1000mm x 660mm x 12.7mm to 25.4mm thick
- Linings and special shapes available on request

### TECHNICAL DATA

#### Friction

$\mu$  for design purposes :  
 Static (cold) 0.45  
 Dynamic (dry) 0.43

#### Recommended Operating Range

Pressure	Dynamic	0.1—1.00 MPa
	Static	0.1 - 2.50 MPa
Max. rubbing speed	25 m/s	
Max. continuous temperature	150°C	
Max. intermittent temperature	200°C	
Max. temperature	300°C	

#### Test Conditions

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

### PHYSICAL PROPERTIES

Density	1.45-1.65 g/cc
Ultimate tensile strength	60 MPa
Ultimate compressive strength	100 MPa
Resistance to compression (Test thickness 9.5mm)	2.5% 5.17 MPa 5.0% 13.62 MPa 7.5% 22.75 MPa
Ultimate shear strength	16 MPa
Rivet holding capacity	135 MPa

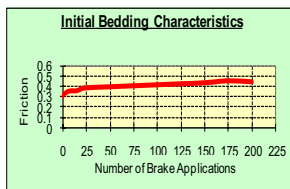
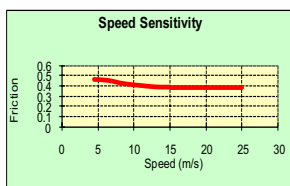
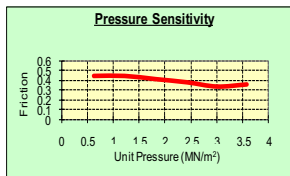
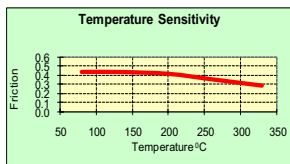
(All physical properties shown above are all mean values)

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 under actual conditions of use before final acceptance.

Issue 4 Jun 10

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MECHANICAL EQUIPMENT

# Products

## Friction Linings

MZ GOLD

# Ferotec Friction Ltd

## MZGOLD Product Data Sheet

### General Description

**MZ Gold** is a solid woven friction material. It is based on yarn spun from a blend of fiberglass and synthetic fibres together with fine brass wires to enhance its strength and heat dissipation properties. The impregnant has been specially developed to give it good frictional properties combined with a fair degree of flexibility. It has a high coefficient of friction with excellent fade resistance and is particularly suitable for mine winder brakes. It is recommended for operation in oil immersed applications. 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 brake linings  
Mine winder brake linings

### Bonding

**MZGOLD** 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

Roll		Sheet
Length	10.0 Metres	Sheet size 1000mm x 660mm x 3.2mm to 12.7mm thick
Width	20 to 510mm	
Thickness range	3.2mm to 12.7mm	Linings and special shapes available on request

### TECHNICAL DATA

#### Friction

$\mu$ for design purposes :	Normal	0.50
	Hot	0.48
	Static @ 100°C	0.48
	Static @ 200°C	0.42

#### Recommended Operating Range

Pressure	Dynamic	0.1—1.00 MPa
Max. rubbing speed	25 m/s	
Max. continuous temperature	150°C	
Max. intermittent temperature	200°C	
Max. temperature	300°C	

### PHYSICAL PROPERTIES

Density (SAE J380)	1.36-1.42 g/cc
Ultimate tensile strength	TBD
Ultimate compressive strength	135 MPa
Ultimate shear strength	TBD
Wear Rate in <sup>3</sup> /hp-hr	0.086

(All physical properties shown above are all mean values)

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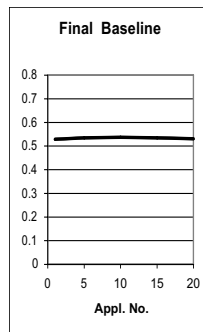
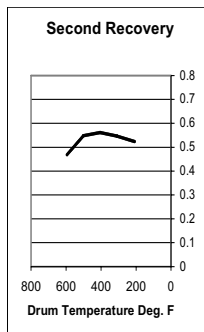
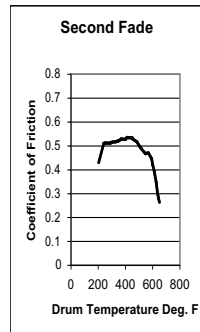
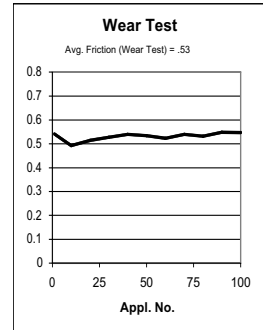
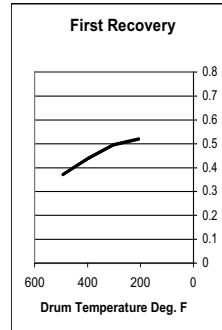
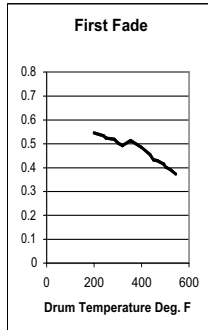
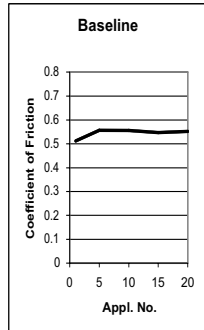
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# Ferotec Friction Ltd

## MZGOLD Product Data Sheet



### SAE J661A (150 PSI)

Material Type  
 Test No. 25-09  
 Date 04/09/09  
 Material MZGOLD (Catali)  
 Lot  
 Reference

	Wear Data	
	Weight	Thickness
	Grams	Inches
Start	4.950	0.219
Finish	4.620	0.196
Loss	0.330	0.023
%	6.67	10.52
Ave. Fric - N	0.50 G	
Ave. Fric - H	0.48 G	
Cu in/Hp hr	0.0086	

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MECHANICAL EQUIPMENT

# Products

## Friction Linings

D3731

# Ferotec Friction Ltd

## D3731 Product Data Sheet

### General Description

D3731 is a rigid moulded, resin based material, containing non-asbestos mineral fibres in a random dispersion with selected friction modifiers. It has a medium 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 brake shoes and metal parts. D3731 is not suitable for operating in oil.

### Applications

- Wind Turbine Brakes
- Industrial drum and band brakes, clutches and miscellaneous industrial devices
- Crane and excavator brake and clutch linings

### Bonding

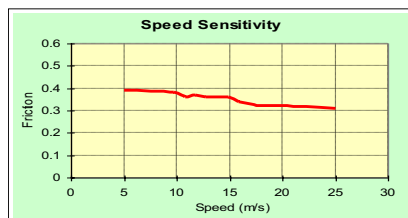
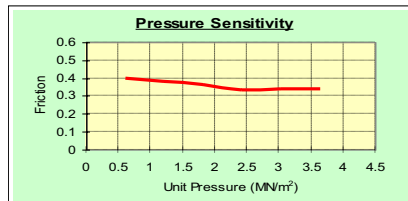
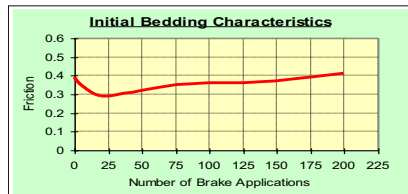
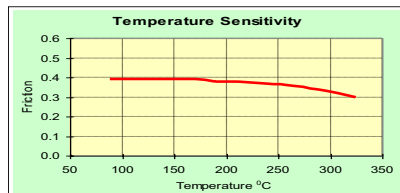
D3731 may be bonded using any of the established adhesives recommended for friction material. However, to obtain the best results it is necessary to use a thermosetting adhesive.

### 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 900mm x 700mm and 660mm x 530mm from 3.2mm to 32mm thick  
Customer specific pad configuration



### TECHNICAL DATA

#### Friction

$\mu$  for design purposes : Static (cold) 0.35  
Dynamic 0.40

#### Recommended Operating Range

Pressure : Static 70-2100 kN/m<sup>2</sup> (10-300 lbf/in<sup>2</sup>)  
Dynamic 70-860 kN/m<sup>2</sup> (10-125 lbf/in<sup>2</sup>)  
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

#### Temperature Sensitivity

Application Speed 15 m/s  
Clamping pressure 0.61 MN/m<sup>2</sup> (88.5 lbf/in<sup>2</sup>)  
Temperatures ranging from 50 to 350°C in steps of 25°C

#### Initial Bedding

Application speed 15 m/s  
Clamping pressure 0.61 MN/m<sup>2</sup> (88.5 lbf/in<sup>2</sup>)  
Average Temperature 140°C

#### Pressure Sensitivity

Application speed 15 m/s  
Average temperature 80°C

#### Speed Sensitivity

Clamping pressure 0.61 MN/m<sup>2</sup> (88.5 lbf/in<sup>2</sup>)  
Average temperature 80°C

### PHYSICAL PROPERTIES

Density 1.85 g/cc minimum  
Ultimate tensile strength 15.2 MN/m<sup>2</sup> (2,200 lbf/in<sup>2</sup>)  
Ultimate compressive strength 59.2 MN/m<sup>2</sup> (8,600 lbf/in<sup>2</sup>)  
Ultimate shear strength 29.6 MN/m<sup>2</sup> (4,300 lbf/in<sup>2</sup>)

(All physical properties shown above are all mean values)

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Issue 11 Sept 11

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MECHANICAL EQUIPMENT

# Products

## Friction Linings

D3751

# Ferotec Friction Ltd

## 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.

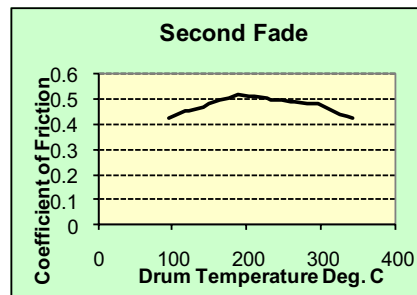
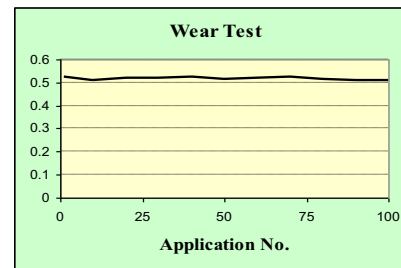
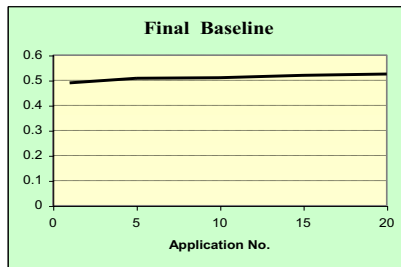
### Mating Surface

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

$\mu$  for design purposes : Static (cold) 0.52  
Dynamic 0.48

#### Recommended Operating Range

Pressure : 2100 kN/m<sup>2</sup>  
Max. rubbing speed 25 m/s (82 ft/s)  
Max. continuous temperature 180°C  
Max. intermittent temperature 275°C  
Max. temperature 325°C

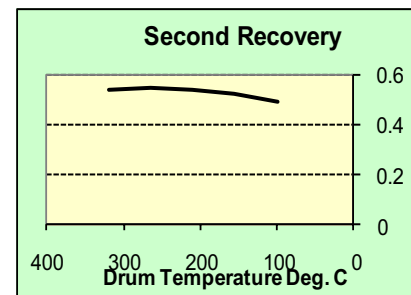
### TEST CONDITIONS

Speed 417rpm  
Pressure 1034 kN/m<sup>2</sup>  
Temperature Ambient to 340°C

#### PHYSICAL PROPERTIES

Density 2.26 g/cc minimum  
Ultimate tensile strength 35.0 MN/m<sup>2</sup>  
Ultimate compressive strength 59.2 MN/m<sup>2</sup> (8,600 lbf/in<sup>2</sup>)

(All physical properties shown above are all mean values)



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Issue 2 Nov 10

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MECHANICAL EQUIPMENT

# Products

## Friction Linings

D3806

# Ferotec Friction Ltd

## D3806 Product Data Sheet

### General Description

D3806 is a closely woven, semi-flexible friction material. It is based on yarn spun from a blend of glass and synthetic fibres together with a fine copper wire to enhance its strength and heat dissipation properties. The impregnant has been specially developed to give it good frictional properties combined with a good degree of flexibility. It has a high coefficient of friction and performs well in wet and damp environments which makes it particularly suited for marine applications. 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

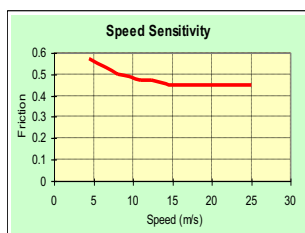
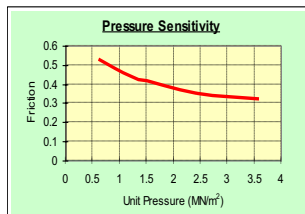
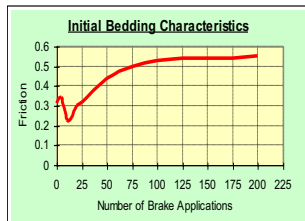
D3806 may be bonded using any of the established adhesives recommended for friction material. However, to obtain the best results it is necessary to use a thermosetting adhesive.

### 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

- **Roll**
  - Length 10 Metres
  - Width 20 to 510mm
  - Thickness range 3.2mm to 20mm
- Sheet size 1000mm x 660mm x 4.8 to 16.0mm thick
  - Linings and special shapes on request



### TECHNICAL DATA

#### Friction

$\mu$ for design purposes :	Static (cold)	0.45
	Dynamic	0.42

#### Recommended Operating Range

Pressure	Dynamic	70-860 kN/m <sup>2</sup>
	Static	70-2,410 kN/m <sup>2</sup>
Max. rubbing speed		25 m/s
Max. continuous temperature		110°C
Max. intermittent temperature		180°C
Max. temperature		225°C

#### Test Conditions

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

### PHYSICAL PROPERTIES

Density	1.20 g/cc
Ultimate tensile strength	24.0 MN/m <sup>2</sup> (3,500 ibf/in <sup>2</sup> )
Ultimate compressive strength	100.0 MN/m <sup>2</sup> (14,500 ibf/in <sup>2</sup> )
Ultimate shear strength	17.2 MN/m <sup>2</sup> (2,500 ibf/in <sup>2</sup> )
Rivet holding capacity	61.8 MN/m <sup>2</sup> (9,000 ibf/in <sup>2</sup> )
Thermal conductivity	0.79 W/m °C

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Issue 5 Jun 10

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MECHANICAL EQUIPMENT

# Products

## Friction Linings

D3920

# Ferotec Friction Ltd

## D3920 Product Data Sheet

### General Description

**D3920** is a partially cured and hence more flexible version of D3921 which has been specially developed to allow customers the ability to undertake some degree of re-radiusing and "cure-out" for themselves. To help in the re-radiusing operation and to convert **D3920** into D3921, the material should firstly be warmed to between 120°C (248°F) and 150°C (302°F) before gently inducing a change of radius. However, care should be taken whilst carrying out this procedure to ensure that no one area is re-radiused more than another, otherwise cracking or possible distortion could occur. (392°F to 446°F) for a minimum of one hour, before being allowed to cool to approximately 100°C (212°F) and the formers removed. Some light scorching or discoloration may occur around the edges of the material but this is quite normal and will be found to be merely superficial.

N.B. This Data Sheet should be read in conjunction with the Data Sheet for **D3921**.

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# Ferotec Friction Ltd

## D3921 Product Data Sheet

### General Description

D3921 is a rigid moulded friction material, light green in colour, and having a non-asbestos basis of short steel filaments in a random dispersion to enhance its heat dissipation properties and strength. It incorporates a blend of carefully selected friction modifiers and a binder which has been specially developed to enhance its properties. Whilst not affected physically by slight oil contamination, this material is not intended to operate in oil. D3921 is also available as semi-cured, semi-flexible roll although in this form it is known by the reference D3920. Information on how to convert D3920 into D3921 is available on request.

### Applications

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

### Bonding

D3921 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.

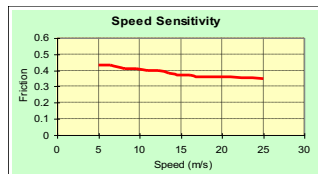
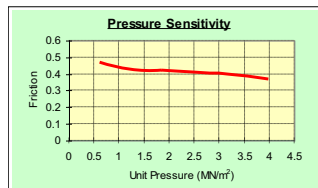
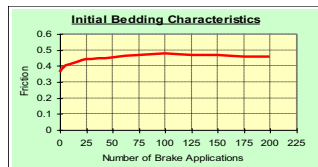
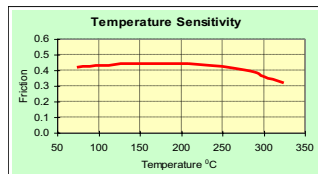
### Mating Surface

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

### Availability

- Roll
  - Length 5M
  - Width 20 to 330mm
  - Thickness range 3.2mm to 12.7mm
- 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

$\mu$  for design purposes :  
Static (cold) 0.38  
Dynamic 0.42

### Recommended Operating Range

Pressure  
Dynamic 70-860 kN/m<sup>2</sup>  
Static 70-2,410 kN/m<sup>2</sup>  
Max. rubbing speed 25 m/s  
Max. continuous temperature 175°C  
Max. intermittent temperature 225°C  
Max. temperature 300°C

### Test Conditions

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

### PHYSICAL PROPERTIES

Density 2.30 g/cc  
Ultimate tensile strength 15.0 MN/m<sup>2</sup> (2,177 ibf/in<sup>2</sup>)  
Ultimate compressive strength 93.0 MN/m<sup>2</sup> (13,520 ibf/in<sup>2</sup>)  
Ultimate shear strength 12.0 MN/m<sup>2</sup> (1,750 ibf/in<sup>2</sup>)  
Rivet holding capacity 86.0 MN/m<sup>2</sup> (12,500 ibf/in<sup>2</sup>)  
Thermal Conductivity 1.034 W/m°C  
Hardness (Shore D) 75

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MECHANICAL EQUIPMENT

# Products

## Friction Linings

D9010



# Ferotec Friction Ltd

## D9010 Product Data Sheet

### General Description

D9010 is a non-asbestos woven material manufactured from finely carded yarns containing brass wire. Its' construction combined with the resins used provide a dense, tough material with particularly good resistance to heat and compression under load. D9010 is suited for light to heavy duty operating conditions against quality steel and cast iron mating surfaces. It is oil and grease resistant and is suitable for light to medium duty in oil-immersed conditions. To help during fitting to brake shoes and bands it can be softened and made more pliable by warming in an appropriate 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  
Oil immersed steering brakes  
Miscellaneous industrial devices

### Bonding

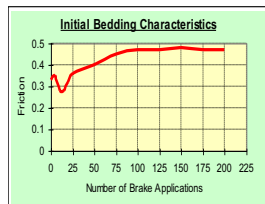
D9010 may be bonded using any of the established adhesives recommended for friction material. However, to obtain the best results it is necessary to use a thermosetting adhesive.

### 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 7.5 Metres
  - Width 20 to 330mm
  - Thickness range 3.2mm to 19mm
- Sheet size 660mm x 660mm x 4.8 to 16.0mm thick
  - Linings and special shapes on request



### TECHNICAL DATA

#### Friction

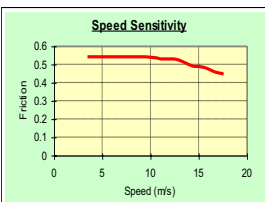
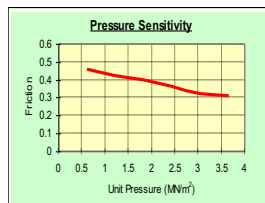
$\mu$ for design purposes :	Static (cold)	0.50
	Static (in oil)	0.12 - 0.15
	Dynamic (dry)	0.42
	Dynamic (in oil)	0.08 - 0.12

#### Recommended Operating Range

Pressure	Dynamic (dry)	70-1,400 kN/m <sup>2</sup> (10 - 200 lbf/in <sup>2</sup> )
	Dynamic (in oil)	350-1,750 kN/m <sup>2</sup> (50 - 250 lbf/in <sup>2</sup> )
	Static	70-3,500 kN/m <sup>2</sup> (10-500 lbf/in <sup>2</sup> )
	Max. rubbing speed	18 m/s
	Max. continuous temperature	180°C
	Max. intermittent temperature	275°C
	Max. temperature	300°C

#### Test Conditions

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



### PHYSICAL PROPERTIES

Density	1.60 g/cc
Ultimate tensile strength	31.0 MN/m <sup>2</sup> (4,500 ibf/in <sup>2</sup> )
Ultimate compressive strength	5.2 MN/m <sup>2</sup> (750 ibf/in <sup>2</sup> )
Ultimate shear strength	43.4 MN/m <sup>2</sup> (6,300 ibf/in <sup>2</sup> )

(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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