

# DBM FRICTION

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## GROUP



DBMFRICTION are manufacturers and suppliers of quality friction material. DBM**FRICTION** is South Africa's leading manufacturer of quality friction material for the past 50 years and is situated in, Howick, Merrivale and Pretoria. These modern and technically advanced production facilities manufactures and exports quality friction high performance Disk Pads, Brake Linings, Industrial Clutches, Semi-Flexible and Braking Friction Materials. DBM**FRICTION** strives to consistently and competitively produce quality products supported by a thorough understanding of our customers needs and requirements.



# DBM**FRICTION** GROUP — INDUSTRY POSITIONING



Leaders in the manufacturing and development of high quality friction & brake material.  
Delivering quality Composite Brake Components to the global market for over 50 years.



DBM**FRICTION** is one of the country's leading manufacturers of brake friction materials to the automotive and brake industry. The company's product portfolio comprises of disc brake pads and drum brake linings for passenger cars, commercial vehicles and trains, together with friction materials for industrial applications. With its brands Dynotherm, Bremz and Metpro, DBM**FRICTION** has a market-leading position in the African replacement parts market. Under the aforementioned brand names, DBM**FRICTION** develops and produces friction materials for industrial applications. DBM**FRICTION** has operations in Pretoria, KwaZulu-Natal (Howick and Merrivale). The DBM Friction Group employs approximately **135** people country wide.

# DBM **FRIC**TION GROUP – LOCATION / CAPABILITY

**DBM**FRIC**TION**  
GROUP



- **Technology:**

Hot press-cure and hot form pressing, Dyno testing facilities, Friction Kraus testers (mu), Dry Mixing, Continuous Finishing lines, High Speed Stamping, Tool Room, Wire Cutting, Painting Lines

- **Customers:**

Transnet, Local General Aftermarket, Africa, Europe, US, UK, Australia and various other parts of the global market

- **Location:** Howick, Merrivale - DYNOTHERM
- **Location:** Akasia, Rosslyn, Pretoria – METPRO RAIL
- **Location:** Mopane Road, Merrivale, Howick- BREMZ

- **Certifications:** IATF ISO9001, E Mark and SANAS

- **Established:** 1996

- **Product lines**

- LV / CV pads, CV Linings, Rail block/ pads, Industrial and sintered industrial.

- **Capability**

- **Dynotherm – CV pads, CV Linings, Industrial and sintered industrial.**

- 12,000M<sup>2</sup> Total Site
- 8,000M<sup>2</sup> Manufacturing

- **Bremz – LV & MCV Brake Pads**

- 1,800M<sup>2</sup> Manufacturing

- **Metpro Rail – Rail Blocks & Rail Pads**

- 3,800M<sup>2</sup> Manufacturing

- **Current tot HC:** 135

# DBMFRICITION GROUP — OUR FOUNDATIONS & GROWTH

**DBMFRICITION**  
GROUP

Opened Retail Store - AutoBrake supplying Automotive friction products to the general aftermarket.

Purchased RBS Brake, LV brake manufacturing plant in Durban, manufacturing LV brake pads for sale to the general aftermarket.

Purchased Brake lining plant from India for manufacture and supply of CV brake linings for truck and bus brakes



Purchased new LV disc brake pad mixing, hot press-cure plant and finishing manufacturing plant. Increase manufacturing capability to 138 LV part numbers



Purchased Tenneco, DRIV friction manufacturing equipment.

1996

2001

2008

2009

2012

2016

2020

2021

2022

Purchased Ferobrake Pinetown supplying automotive friction products to the general aftermarket

Founded Empangeni Friction based in Cato Ridge manufacturing and supplying LV, CV, truck and bus brake linings and pads for sale to the general aftermarket under the brand name of BREMZ.



Established and installed moulded Roll and segment manufacturing plant.



Purchased TMD FRICTION, Dynotherm, manufacturing plant and site, CV linings, CV pads, clutch facings and industrial friction, sintered/traditional products



Purchased CBC, Metpro Rail manufacturing plant.  
Formed and Registered **DBMFRICITION GROUP**



# DBM FRICTION GROUP — TESTING CAPABILITIES

DBM FRICTION  
GROUP



Dynamometer Testing



Used for **Light Vehicle/Passenger** application testing  
Inertia range from 30 kg.m<sup>2</sup> to 250 kg.m<sup>2</sup>



2 x Laboratories

7 x Krauss Testers

2 x Simulation  
Dynamometers

3 x Large Inertia  
Dynamometer

2 x Compressibility Machine  
1 x Rockwell Hardness

2 x Shear machine

Physical Testing



Measures **frictional performance** at constant pressure



Used for commercial vehicle and railway **application testing**  
Inertia range from 630 kg.m<sup>2</sup> to 1640 kg.m<sup>2</sup>



Used to determine **friction material deflection** under specified  
load and temperature



Used to verify **structural integrity** between backing  
plate and the friction material on light vehicle pads

# DBMFRICITION GROUP — GENERAL INFORMATION



- DBMFRICITION is an incorporation of 3 manufacturing facilities namely: Dynotherm, Bremz and Metpro Rail.
- DBMFRICITION manufacture surface and underground solutions to the automotive and mining industry, including products approved for use on underground locomotives, used in deep level mining operations.
- The company's quality control and management systems are ISO 9001 accredited and conform to international standards, including the requirements of the Passenger Rail Association of South Africa, The American Association of Railroads and the Australian Railroad Group, in keeping with the highest environmental, health and safety standards.
- Dynotherm supports the regulations and rules for Environmental care and are therefore an environmentally friendly manufacturer. All products are asbestos free and conform to stringent international statutory requirements. Dynotherm's sintered pads contain ethanol resin fibers and perform at temperatures of 800 degrees Celsius without the use of heavy metals thus exceeding global environmental standards.
- BBBEE rating of level 1.
- Site is an active contributor towards local economic and social development.
- Delivering quality Composite Brake Components to the global market for over 50 years.
- Design and develop asbestos free composite brake blocks and brake pads to customer specifications
- New Product introductions can be achieved within 30 working days.



## Aftermarket Product Brands and Services



### Heavy, Medium and Industrial Vehicles

#### PRODUCTS

- Commercial Vehicle Linings
- Commercial Vehicle Pads
- Sintered Products

#### KEY CUSTOMERS

- Africa
- Local Aftermarket
- Africa, Europe, US, UK,
- Australia and
- Various global markets

MARKETS

**#1 AFRICA**



### Light Motor Vehicle

- Roll Form
- Friction Segments
- CV Linings
- LV Disc Brake Pads

- Africa
- Local Aftermarket

**#1 Rest of AFRICA**



**METPRO-RAIL**



### Rail Products

- Rail Blocks – Freighters
- Rail Blocks – Locomotives
- Rail Blocks – Industrial
- Rail Blocks - Others

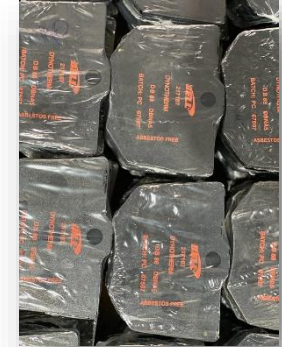
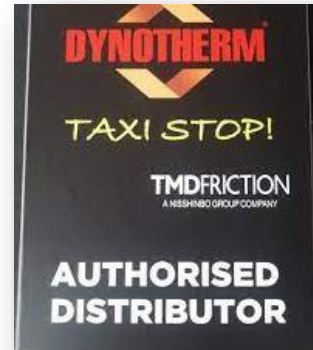
- Transnet,
- Kenya Rail; Mozambique Rail; Botswana Rail
- Namibia Rail; Uganda Rail; Swaziland Rail
- Tanzania Rail; DRC Rail

**#1 Africa**

# DBM FRICTION GROUP — PRODUCT RANGE BY APPLICATION

## Light Vehicles

- LV Disc Brake Pads
- Roll Form
- Friction Segments



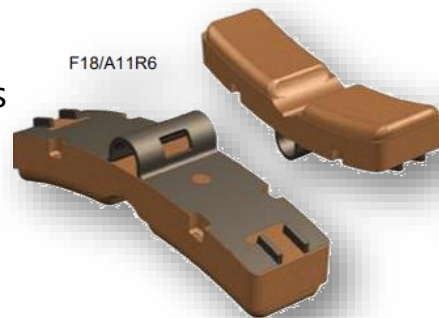
## Heavy, Medium and Industrial Vehicles

- CV Linings
- CV Pads
- CV Slabs
- IND



## Rail Products

- Freighters
- Locomotives
- Industrial
- Others



# DBM FRICTION GROUP – BBBEE STATUS – LEVEL 1

## QSE CERTIFICATION

Certificate Number: QSE 100022

Hereby certifies that

### TMD FRICTION SA (PTY) LTD

7 SALIGNA ROAD,  
MERRIVALE  
KWA-ZULU NATAL,  
8001

Reg No: 2011/003222/07  
VAT No.4880261179

Qualifies as  
Qualifying Small Enterprise  
With an automatic BEE recognition reflected below:

|                           |                         |
|---------------------------|-------------------------|
| BEE Status: Level 1       | BEE Recognition: 135%   |
| Black Ownership: 100%     | BEE Category: QSE       |
| Black Women Ownership: 0% | Value Add Supplier: Yes |

(135% of what your company spends with this company can be counted as BEE spend)

Issue Date: 06<sup>th</sup> April 2022  
Expiry Date: 05<sup>th</sup> April 2023

THIS BBBEE CERTIFICATE IS ISSUED IN ACCORDANCE WITH THE  
CODES OF GOOD PRACTICES. THIS COMPANY HAS PROVIDED  
DOCUMENTATION AS PROOF OF ITS EXEMPTION. SA FINANCIAL  
ENTERPRISES CC RETAINS COPIES OF ALL DOCUMENTS  
PRESENTED AND HAS ISSUED THIS CERTIFICATE IN THEIR PLACE.

THE COMMISSIONER OF OATHS :

FULL NAME : NEROSH DAULAT

DATE : 06<sup>th</sup> APRIL 2022

SOUTH AFRICAN INSTITUTE OF TAX PROFESSIONALS

– PR0023722

STAMP AND SIGN :

CERTIFIED A TRUE COPY OF THE ORIGINAL

COMMISSIONER OF OATHS (RSA)

NEROSH DAULAT

1 RIPPON CRESCENT - HARBURG - PORT SHEPSTONE

## QSE CERTIFICATION

Certificate Number: QSE 100021

Hereby certifies that

### COMPOSITE BRAKE COMPONENTS (PTY) LTD

113 KOTZENBERG STREET,  
ROSSLYN,  
AKASIA,  
GAUTENG,  
0200

Reg No: 2015/101977/07  
VAT No.4450282589

Qualifies as  
Qualifying Small Enterprise  
With an automatic BEE recognition reflected below:

|                             |                         |
|-----------------------------|-------------------------|
| BEE Status: Level 1         | BEE Recognition: 135%   |
| Black Ownership: 100%       | BEE Category: QSE       |
| Black Women Ownership: 100% | Value Add Supplier: Yes |

(135% of what your company spends with this company can be counted as BEE spend)

Issue Date: 06<sup>th</sup> April 2022  
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FULL NAME : NEROSH DAULAT

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STAMP AND SIGN :

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COMMISSIONER OF OATHS (RSA)

NEROSH DAULAT

1 RIPPON CRESCENT - HARBURG - PORT SHEPSTONE

## EME CERTIFICATION

Certificate Number: EME100076

Hereby certifies that

### BREMZ 100 (PTY) LTD

Unit 3, Nordic Industrial  
Cato Ridge  
Durban  
3680

Reg No: 2016/029612/07  
VAT No.4240272817

Qualifies as an Exempt Micro Enterprise (EME)  
With an automatic BEE recognition reflected below:

|                           |                         |
|---------------------------|-------------------------|
| BEE Status: Level 1       | BEE Recognition: 135%   |
| Black Ownership: 100%     | BEE Category: EME       |
| Black Women Ownership: 0% | Value Add Supplier: Yes |

(135% of what your company spends with this company can be counted as BEE spend)

Issue Date: 11<sup>th</sup> January 2022  
Expiry Date: 10<sup>th</sup> January 2023

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PRESENTED AND HAS ISSUED THIS CERTIFICATE IN THEIR PLACE.

*F. Moosa*  
F. MOOSA  
Professional Accountant (SA)  
Practice No. 16214  
SOUTH AFRICAN INSTITUTE OF  
PROFESSIONAL ACCOUNTANTS  
YOUR WEALTH

This Certificate is issued in terms government Gazette Vol. 500 No. 29617 dated 9 February 2007

  
THE ACCOUNTANT ON  
MARRIOT  
13 GLADYS HAZIBUKO ROAD  
(MARRIOT ROAD)  
GREYVILLE, 4001  
P.O. BOX 701157  
OVERPORT, 4067  
TEL: + 27 31 309 2220  
FAX: + 27 86 672 8627  
EMAIL: F\_MOOSA@MWEB.CO.ZA  
REG NO. CK 2007/002887/23

  
SAIPA  
YOUR WEALTH  
Member: F. Moosa  
Professional Accountant (SA)

# DBM FRICTION GROUP – CERTIFICATION

The company quality control and management systems are ISO 9001 accredited, conforms to international standards, including the requirements of the Passenger Rail Association of South Africa, The American Association of Railroads and the Australian Railroad Group, in keeping with the highest environmental, health and safety standards.



# DBM FRICTION GROUP – E Mark and SANS Approvals

## Illustration of some of the approvals received

**IDIADA**

L'Albarn - Apartado de Correos 20  
E - 43710 Santa Oliva (Tarragona)  
España  
Tel: +34 977 166000  
Fax: +34 977 166007  
e-mail: idiada@idiada.com

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**INFORME / REPORT N° CV17030483**

**INFORME DE RESULTADOS DE CONJUNTOS DE FORROS DE FRENO DE REPOSICIÓN  
REGLAMENTO ONU: 90/02  
TEST REPORT OF REPLACEMENT BRAKE LINING ASSEMBLIES UN REGULATION No.90.02**

Nombre y dirección del solicitante /  
Applicant's name and address : Bremz 100 (Pty) Ltd  
Unit 3, Nordic industrial Park, Cato Ridge,  
Durban, South Africa

Nombre y dirección del fabricante /  
Manufacturer's name and address : Bremz 100 (Pty) Ltd  
Unit 3, Nordic industrial Park, Cato Ridge,  
Durban, South Africa

Marca y tipo del conjunto de forro de freno /  
Make and type of brake lining assembly  
Denominación(es) comercial(es) : 04495-35230  
Commercial description(s) : ---

Marca y tipo de forros de freno /  
Make and type of brake lining  
Denominación(es) comercial(es) : BREMZ FLEX  
Commercial description(s) : ---

Lugar y fecha de emisión del informe /  
Place and date of issue : L'Albarn, Santa Oliva (Tarragona), 10/04/2017

**CONCLUSIONES:** El juego de forros de freno de reposición ensayado CUMPLE los requisitos exigidos en la comparación dinámica de fricción (Anexo 3/ 2.1.1), en la Sensibilidad a la velocidad (Anexo 3/ 2.1.2) y en los requerimientos del Reglamento ONU: 13.11 (Anexo 3/1.1) de acuerdo con el Reglamento ONU: 90/02. Los resultados de este ensayo se encuentran en el anexo de este informe.

**CONCLUSIONS:** The replacement brake lining assembly tested FULFILLS the technical requirements of Dynamic friction comparison test (Annex 3/ 2.2.3), Speed sensitivity test (Annex 3/ 2.2.4) & requirements of UN Regulation No 13.11 (Annex 3/1.1) of UN Regulation No 90.02. The test results are attached in the annex of this test report.

Realizado / Performed by :   
Jaime Lop Chavez  
INGENIERO DE ENSAYOS  
TEST ENGINEER

V. B. / Revised by :   
Ignacio Lafente Buil  
JEFE DE DEPARTAMENTO  
DEPARTMENT MANAGER

**IDIADA** CV17030483

\* LOS RESULTADOS PRESENTADOS SE REFIEREN ÚNICAMENTE A LA MUESTRA ENSAYADA.  
THE PRESENTED RESULTS REFER ONLY TO THE TESTED SAMPLE.  
\* OUTCOME AND RESULTS PRESENTED IN THIS REPORT ARE ONLY VALID FOR THE SAMPLE TESTED.  
THE PARTIAL REPRODUCTION OF THIS REPORT WITHOUT THE PERMISSION OF IDIADA IS COMPLETELY FORBIDDEN.

**SABS**

**TEST REPORT**

BREMZ 100 (Pty) Ltd  
Attention: Mr. Shiraz Mooideen  
PO Box 65009  
RESERVOIR HILLS  
4090

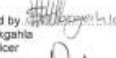
SANS 20090:2010  
Replacement brake lining assemblies and drum brake linings for power-driven vehicles and their trailers

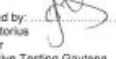
Report Number:  
AVC-170203-00002

Date: 2017-02-09

Sample Tested: (D3015) Toyota Hi Ace and VW Caravelle Brake Pads  
Sample Number: 687988

Tested by:   
LK Motsepa  
Operator

Checked by:   
Q S Mokgahle  
Test Officer

Approved by:   
JLC Pretorius  
Manager  
Automotive Testing Gauteng



**Conclusion:**  
The sample tested complied with the requirements of the test clauses (Clause 5 & 6) of SANS 20090:2010  
"Replacement brake lining assemblies and drum brake linings for power-driven vehicles and their trailers"

Number of pages 10

1 Dr Letegan Road, Groenkloof, Private Bag X191, Pretoria, 0001.  
Tel +27 12 426 7911. Fax +27 12 344 1568  
SABS Commercial SOC Ltd conducted a conformity assessment pertaining to a sample of the product, commodity or system identified and the outcome recorded in this test report only relates to that specified sample. The conformity assessment outcomes recorded in the test report do not imply SABS approval of the quality and/or performance of the sample(s) in question and the test results do not apply to any similar sample that has not been tested. (Refer also to the conditions of test printed on the back of this page.) This report may not be reproduced except in full. The authenticity of this report and its contents can be confirmed by contacting the person who signed it.

**SABS**

**TEST REPORT**

BREMZ 100 (Pty) Ltd  
Attention: Mr. Shiraz Mooideen  
PO Box 65009  
RESERVOIR HILLS  
4090

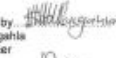
SANS 20090:2010  
Replacement brake lining assemblies and drum brake linings for power-driven vehicles and their trailers

Report Number:  
AVC-170331-00033

Date: 2017-04-11

Sample Tested: (D3259) BREMZ ACTROSS BRAKE PADS  
Sample Number: 691614

Tested by:   
LK Motsepa  
Operator

Checked by:   
Q S Mokgahle  
Test Officer

Approved by:   
JLC Pretorius  
Manager  
Automotive Testing Gauteng



**Conclusion:**  
The sample tested complied with the requirements of the test clauses (Clause 5 & 6) of SANS 20090:2010  
"Replacement brake lining assemblies and drum brake linings for power-driven vehicles and their trailers"

Number of pages 11

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# DBM FRICTION GROUP — E Mark and SANS Approvals cont'd

Illustration of some of the approvals received Cont'd

