

DIRECTORY D11/2013

**PRODUCERS OF INDUSTRIAL MINERALS COMMODITIES  
IN SOUTH AFRICA, 2013**

DIRECTORATE: MINERAL ECONOMICS



**mineral resources**

Department:  
Mineral Resources  
**REPUBLIC OF SOUTH AFRICA**

**PRODUCERS OF INDUSTRIAL MINERALS COMMODITIES IN SOUTH  
AFRICA, 2013**

**DIRECTORATE: MINERAL ECONOMICS**

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THE 12<sup>TH</sup> EDITION: APRIL 2013

WHEREAS THE GREATEST CARE HAS BEEN TAKEN IN THE COMPILATION OF THE CONTENTS OF THIS PUBLICATION, THE DEPARTMENT OF MINERAL RESOURCES DOES NOT HOLD ITSELF RESPONSIBLE FOR ANY ERRORS OR OMISSIONS.

DATA RELATING TO PHYSICAL PROPERTIES AND CHEMICAL ANALYSES ARE TYPICAL OF NORMAL PRODUCTION AND ARE SUBJECT TO NORMAL VARIATION. THEY SHOULD NOT BE TAKEN AS A BINDING SPECIFICATION.

## FOREWORD

The directory plays a pivotal role within the industry as it presents a holistic framework of the industry to potential investors. Due to the dynamic nature of the industrial minerals industry in South Africa, it was deemed necessary, once again, to update this directory. The directory is updated on bi-annual basis and it therefore plays an important role in promoting the country's mineral industry.

Published information includes contact details of the various mining, manufacturing and marketing companies. Where available, email and website addresses are also included. Data contained in this twelfth edition were supplied by the various mining, manufacturing and marketing companies listed, to whom due acknowledgement is made.

Aggregate and sand, dimension stone and salt information can be found in the following directories (D14, D9 and D4 respectively). Further details relating to South Africa's industrial minerals are given in the Directorate's annual review of the South African mineral industry (SAMI).

We hope that this revised edition will once again prove itself valuable to the producers, marketers and consumers of South Africa's industrial mineral commodities.

N Dlambulo  
ACTING DIRECTOR

April 2013

## ABBREVIATIONS USED

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AFS	American Foundrymen Standard
AGS	Average grain size
BD	Bulk Density
BPL	Bone phosphate of lime
C. Strength	Compressive Strength
C.Thick	Cake Thickness
CCE	Calcium carbonate equivalent
C.E.C.	Cation Exchange Capacity
H	Hardness
HMS	Heavy media separation
LOI	Loss on ignition
max	Maximum
meq	milli-equivalents
min	Minimum
mm	Millimetre
MP	Melting point
N/A	Not available
ND	No dust
(Na,K) <sub>2</sub> O	Na <sub>2</sub> O + K <sub>2</sub> O
PCE	Piometric Cone Equivalent
polyprop	Polypropylene
ppm	parts per million
ROM	Run of mine
S.G.	Specific gravity
ST	Sintering temperature
µm	Micron or micrometre (1 x 10 <sup>-6</sup> m)
WHA	Westing House Adsorption
WSS	Water soluble salts
#	Mesh

## NOTES

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### **Brightness**

A measure of the amount of light reflected by a paper at a wavelength of 457 +/- 5 nm. Mineral brightness can be measured with photometers, such as: Photovolt, Elrepho, GE Brightness and Hunter Lab. Unless otherwise stated, Elrepho photometer readings are displayed.

### **Calcium carbonate and CaCO<sub>3</sub>**

The terms are used interchangeably in the text.

### **Calcium carbonate equivalent or CCE**

A measure of the effectiveness of the active ingredient and the amount of active ingredient in a liming material, measured in either resin or strong acid (HCL).

### **Chemical Analysis**

Typical or average values as determined by a representative sample.

### **Mean size**

Average particle diameter/size on a particle distribution curve.

### **Value Addition**

The term 'value addition' and 'beneficiation' are used interchangeably in the text.

*Actual product names and mine codes are denoted in bold text*

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## ANDALUSITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. Group				
ANDALUSITE RESOURCES (PTY) LTD P O Box 436 2068 WITKOPPEN				
Tel: +27 (0)11 467 8601 Fax: +27 (0)11 467 9115 andalusite@amte.co.za				
1.1 Mine				
ANDALUSITE RESOURCES MINE <b>(Mine Code 3737)</b> P O Box 1621 0380 THABAZIMBI	Opencast, crushing, scrub- bing and HMS	Marlusite M57	On Average % Al <sub>2</sub> O <sub>3</sub> 57,25 SiO <sub>2</sub> 40,04 Fe <sub>2</sub> O <sub>3</sub> 0,85 TiO <sub>2</sub> 0,26 CaO 0,15 LOI 0,91  S.G. 3,05-3,12* PCE 35* MP 1 785°C pH Neutral BD (loose) 1,65 g/cm <sup>3</sup>	ANDALUSITE RESOURCES (PTY) LTD P O Box 436 2068 WITKOPPEN  Tel: +27 (0)11 467 8601 Fax: +27 (0)11 467 9115 andalusite@amte.co.za
Tel: +27 (0)14 786 0021 Fax: +27 (0)14 786 0360 andalusite@amte.co.za				Tel: +27 (0)11 467 8601 Fax: +27 (0)11 467 9115 andalusite@amte.co.za
<u>Farm, District, Province</u> Maroeloesfontein 366 KQ, Ptn 1 THABAZIMBI LIMPOPO PROVINCE				<u>Export</u> Agents in Europe & Asia; andalusite@amte.co.za
			Note: * Spec data for the 0-3mm sized product	
			Sizing: 200# (75µm) 100# (150µm) 65# (200µm) 0-1mm 0-3mm 1-3mm	
			1 ton bulk bags - flat bottom - bottom discharge	
			Bulk	
2. Group				
IMERYS SA (PTY) LTD P O Box 8118 0046 CENTURION				
Tel: +27 (0)12 643 5947 Fax: +27 (0)12 643 5961 andalusite@samrec .co.za www.imerys.com				
(IMERYS SA continued on next page)				

## ANDALUSITE

	PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
2.1	Mine  ANNESLEY ANDALUSITE MINE <b>(Mine Code 0280)</b> P O Box 186 1120 LYDENBURG  Tel: +27 (0)79 509 4651/4652 Fax:+27 (0)71 602 7979  <u>Farm, District, Province</u> Annesley 109 KT Hofontein 126 KT Morgenson 125 KT LYDENBURG MPUMALANGA	Opencast, crushing, heavy media and magnetic separation	Concentrate  Randalusite	See product specs on PAGE 3	<u>Local</u> IMERYS SA (PTY) LTD
2.2	HAVERCROFT ANDALUSITE MINE <b>(Mine Code 0267)</b> P O Box 217 1150 BURGERSFORT  Tel: +27 (0)13 216 3100 Fax:+27 (0)13 216 3111  <u>Farm, District, Province</u> Havercroft 99 KT Streatham 100 KT SEKHUKHUNELAND LIMPOPO PROVINCE	Opencast, crushing, heavy media and magnetic separation	Concentrate  Randalusite	See product specs on PAGE 3	<u>Local</u> IMERYS SA (PTY) LTD  <u>Export</u> DAMREC
2.3	Mine  KRUGERSPOST ANDALUSITE MINE <b>(Mine Code 0937)</b> P O Box 186 1120 LYDENBURG  Tel: +27 (0)13 235 3821 Fax:+27 (0)13 235 3288  <u>Farm, District, Province</u> Klipfontein 400 KT LYDENBURG MPUMALANGA	Opencast: Crushing, heavy media and magnetic separation	Krugurite 55 Krugurite 57	See product specs on PAGE 3	<u>Local</u> IMERYS SA (PTY) LTD  <u>Export</u> DAMREC
2.4	Mine  RHINO ANDALUSITE <b>MINE (Mine Code 4081)</b> Private Bag x329 0380 THABAZIMBI  Tel: +27 (0)14 784 0660 Fax:+27 (0)14 784 0669	Opencast; Crushing, HMS & magnetic separation	Concentrate  Purusite	See product specs BELOW	<u>Local</u> IMERYS SA (PTY) LTD P O Box 8118 0046 CENTURION  Tel: +27 (0)12 643 5947 Fax:+27 (0)12 643 5961 samrec@samrec.com

## ANDALUSITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
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Farm, District, Province  
Grootfontein 352 KQ Ptn 3  
THABAZIMBI  
LIMPOPO PROVINCE

Export  
DAMREC  
TOUR MAINE (France)  
MONTPARNASSE

Tel: +09 3314 538 2888  
Fax: +09 3314 538 9951  
www.imerys.com  
sales-andalusite  
@damrec.com

2.5 Plant

APIESDORING  
WAREHOUSE  
P O Box 1524  
1150 BURGERSFORT

Value addition  
only: Crushing,  
screening and  
bagging

Durandal  
57;59;60

See product specs  
BELOW

Local  
IMERYS SA (PTY) LTD

Export  
DAMREC

Tel: +27 (0)13 231 7409  
Fax: +27 (0)13 231 7962

## ANDALUSITE PRODUCT LIST:

SAMREC (PTY) LTD:

**PURISITE**

On Average %  
Al<sub>2</sub>O<sub>3</sub> ≥ 58,5  
Fe<sub>2</sub>O<sub>3</sub> ≤ 0,9  
(Na,K)<sub>2</sub>O ≤ 0,55

Sizing: 0 - 1mm  
0 - 4mm

**RANDALUSITE**

On Average %  
Al<sub>2</sub>O<sub>3</sub> ≥ 59,0  
Fe<sub>2</sub>O<sub>3</sub> ≤ 0,8  
(Na,K)<sub>2</sub>O ≤ 0,55

Sizing: 1 - 4mm  
3 - 8mm

**KRUGERITE 55**

On Average %  
Al<sub>2</sub>O<sub>3</sub> ≥ 55  
Fe<sub>2</sub>O<sub>3</sub> ≤ 1,4 - 2,0  
(Na,K)<sub>2</sub>O ≤ 0,65

Sizing: Various fractions available  
below -3mm

All packaging details available on request

## ANDALUSITE PRODUCT LIST continued

**KRUGERITE 57**

On Average %  
Al<sub>2</sub>O<sub>3</sub> ≥ 57  
Fe<sub>2</sub>O<sub>3</sub> ≤ 0,9  
(Na,K)<sub>2</sub>O ≤ 0,65

Sizing: Various fractions available  
below -3mm

**DURANDAL 57\***

On Average %  
Al<sub>2</sub>O<sub>3</sub> ≥ 57,0  
Fe<sub>2</sub>O<sub>3</sub> ≤ 0,9  
(Na,K)<sub>2</sub>O ≤ 0,55

**DURANDAL 59\***

On Average %  
Al<sub>2</sub>O<sub>3</sub> ≥ 59,0  
Fe<sub>2</sub>O<sub>3</sub> ≤ 0,8  
(Na,K)<sub>2</sub>O ≤ 0,55

**DURANDAL 60\***

On Average %  
Al<sub>2</sub>O<sub>3</sub> ≥ 59,5  
Fe<sub>2</sub>O<sub>3</sub> ≤ 0,6  
(Na,K)<sub>2</sub>O ≤ 0,45

All packaging details available on request

Note: \* Size fractions available on request

## ATTAPULGITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. ATTA CLAY (PTY) LTD <b>(Mine Code 4020)</b> P O Box 261 1600 ISANDO  Tel: +27 (0)11 974 8013 Fax: +27 (0)11 974 2019 www.attaclay.co.za  <u>Farm, District, Province</u> Maandagshoek 254 KT LYDENBURG MPUMALANGA	Opencast; drying, screening & calcining	Attapulgit  Main applications: Absorbents, cat litter, drilling mud, sealing medium, pollution control, refinement of petroleum, cosmetic base	On Average % SiO <sub>2</sub> 52,0 Al <sub>2</sub> O <sub>3</sub> 14,0 MgO 7,0 Fe <sub>2</sub> O <sub>3</sub> 5,0 CaO 1,0 LOI 8 H <sub>2</sub> O 13,0 S.G. 2.0 g/cc BD 0.9 g/cc H <sub>2</sub> O Absorption > 100% Oil Absorption 80% Moisture content <5%  Sizing: >6,7mm <11% ret. 87-97% 6,7-0,5mm 3% < 0,5mm  Sizing: 1,18 - 4,0mm, & 2% dust Moisture < 5%  Sizing: 1,18 - 0,25mm, & 0,1% dust Moisture < 5%  Sizing: 1,18 - 0,25mm 87,5% -0,6mm Free moisture <1,1% LOI 13,1% pH 9,26  <u>Packaging</u> 2.5, 5, 10, 25 kg paper bags - palletised & shrink wrapped 500 kg mini bulk bags Bulk	ELBROC MINING PRODUCTS (PTY) LTD P O Box 10261 1613 Edenglen  Tel: +27 (0)11 392 4025 Fax: +27 (0)11 392 4021 www.attaclay.co.za
2. Group  G & W BASE & INDUSTRIAL MINERALS (PTY) LTD P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 878 0300 Fax: +27 (0)11 824 2720 www.gwbase.co.za www.zimco.co.za  (G & W Base & INDUST. Continued on next page)				

## ATTAPULGITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
2.1 Mine				
DWAALBOOM ATTAPULGITE MINE <b>(Mine Code 1708)</b> P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 878 0300 Fax: +27 (0)86 509 4639 www.gwbase.co.za	Opencast	Attapulgit  Main applications: Cat litter, fertilizer, suspension and drilling muds & absorbents	On Average % SiO <sub>2</sub> 62 MgO 9 Al <sub>2</sub> O <sub>3</sub> 7 Fe <sub>2</sub> O <sub>3</sub> 3 CaO 1,5 Na <sub>2</sub> O 0,1 K <sub>2</sub> O 0,3 LOI 12	G & W BASE & INDUSTRIAL MINERALS (PTY) LTD P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 878 0300 Fax: +27 (0)11 824 2720 www.gwbase.co.za
<u>Farm, District, Province</u> Zuurverdiend 167 KP RUSTENBURG NORTHWEST PROVINCE		Crudes	Moisture < 15% BD 0,7-1,7 g/cc Bulk	Western Cape PROTEA INDUSTRIAL CHEMICALS (PTY) LTD P O Box 4535 8000 CAPE TOWN  Tel: +27 (0)21 550 8100 Fax: +27 (0)21 550 8180 www.prochem.co.za
		2-6mm	Moisture 10-15% BD 0,7 g/cc 40 kg paper bags	
		100# (150µm)	Moisture <13% BD 0,9 -1,04 g/cc 40 kg paper bags	KwaZulu-Natal PROTEA INDUSTRIAL CHEMICALS (PTY) LTD P O Box 12243 4026 JACOBS  Tel: +27 (0)31 468 5424 Fax: +27 (0)31 468 5429 www.prochem.co.za
3. Group				
MATUTU ABSORBENTS (PTY) LTD P O Box 4965 2118 CRESTA  Tel: +27 (0)11 678 5314 Fax: +27 (0)86 509 4639 matutu@law.co.za				
3.1 Mine				
MATUTU CLAY MINING <b>(Mine Code 3641)</b> P O Box 4965 2118 CRESTA  <u>Farm, District, Province</u> Putsfontein RUSTENBURG NORTHWEST PROVINCE	Opencast	Attapulgit  Main applications: Absorbents, pet litter, animal feed, fertilizer, oil pollution control, carriers, anti-slip agent, oil drilling muds	Bulk	Sold to MATUTU ABSORBENTS exclusively

## ATTAPULGITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
3.2 Plant				
MATUTU ABSORBENTS (PTY) LTD P O Box 4965 2118 CRESTA  Tel: +27 (0)11 678 5314 Fax:+27 (0)86 509 4639 matutu@law.co.za	Sizing, calcining	Attapulgit	On Average % SiO <sub>2</sub> 66,7 Al <sub>2</sub> O <sub>3</sub> 9,2 MgO 9,5 CaO 2,3 LOI 7,0  Loose BD: 706 g/cm pH 6,8-7,8 WHA 106% (water)	MATUTU ABSORBENTS (PTY) LTD P O Box 4965 2118 CRESTA  Tel: +27 (0)11 678 5314 Fax:+27 (0)11 678 5314 matutu@law.co.za
		Agrigel	Sizing < 310µm Typical 3% sand content Free moisture < 10%	
		Absorbent powder	Sizing < 500µm Free moisture < 2% Calcined	
		Suspension powder	Typical 10,5% sand content on 75µm screen Free moisture <10%	
		Micro granules	Sizing: 0,5-1,2 mm Free moisture < 10%	
		Agrisorb	Sizing: 0,5-1,2mm Free moisture < 1% Calcined	
		Catsand	Sizing: 1,2-4mm Coarse granules Free moisture < 10%	
		Ex mine	Sizing: 0,5-10mm	
			<u>Packaging</u> 25kg paper bags 25kg polyprop bags 500kg bulk bags 1 ton bulk bags	

## 4. Group

MEYERS MINERALS CC  
P O Box 77052  
2032 FONTAINEBLEAU

Tel: +27 (0)11 462 5278  
Fax:+27 (0)11 462 2003  
leonmeyer@xsinet.co.za

(MEYER MINERALS  
continued on next page)

## ATTAPULGITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
4.1 Mine				
ARLECO MINING (PTY) LTD <b>(Mine Code 1022)</b> P O Box 77052 2032 FONTAINEBLEAU	Opencast; crushing	Attapulгите	Bulk	Sold exclusively to ARLECO ABSORBENTS (PTY) LTD
<u>Farm, District, Province</u> Calais 563 KS MOKOPANE LIMPOPO PROVINCE				
4.2 Plant				
ARLECO ABSORBENTS (PTY) LTD P O Box 77052 2032 FONTAINEBLEAU  Tel: +27 (0)11 462 5278 Fax: +27 (0)11 462 2003	Sizing and calcining	Attapulгите  Main applications: Absorbents; oil refining & cat litter	On Average % SiO <sub>2</sub> 50,3 Al <sub>2</sub> O <sub>3</sub> 10,7 Fe <sub>2</sub> O <sub>3</sub> 8,34 MgO 6,4 CaO 2,96 TiO <sub>2</sub> 0,89 MnO 0,12  Sizing: 0,5 - 3 mm or as requested by clients  Moisture: 6% Absorption: 156% BD 0,829 g/cm <sup>3</sup>  Packaging: 2,5 kg, 5 kg, 10 kg, 40 kg & 50 kg bags 1 ton bulk bags Bulk	ARLECO ABSORBENTS (PTY) LTD P O Box 77052 2032 FONTAINEBLEAU  Tel: +27 (0)11 793 1918 Fax: +27 (0)11 792 3689 leonmeyer@xsinet.co.za

**BARYTES\***

<b>PRODUCER</b>	<b>TYPE OF OPERATION</b>	<b>PRODUCT</b>	<b>ANALYSIS/SPECIFICATIONS</b>	<b>MARKETING</b>
DISTRIBUTORS/ TRADERS/ IMPORTERS*				
1. Group / Company				
G & W BASE & INDUSTRIAL MINERALS (PTY) LTD P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 824 2710 Fax:+27 (0)11 824 2721 www.gwbase.co.za www.zimco.co.za	Milling & packing, distributing	Barytes F Barytes SG Barytes SW  Main applications:  Paint Plastic Oil Drilling Friction linings Plaster (X-ray rooms)	On Average % BaSO <sub>4</sub> 92,8 SiO <sub>2</sub> 2,6 Fe <sub>2</sub> O <sub>3</sub> 3,3  Moisture: 1%  Milling as per customer requirements  40kg paper bags 50 kg poly-prop bags	G & W BASE & INDUSTRIAL MINERALS (PTY) LTD  Tel: +27 (0)11 824 2710 Fax:+27 (0)11 824 2721 www.gwbase.co.za  Western Cape PROTEA INDUSTRIAL CHEMICALS (PTY) LTD  Tel: +27 (0)21 550 8100 Fax:+27 (0)21 550 8180 www.prochem.co.za  KwaZulu-Natal PROTEA INDUSTRIAL CHEMICALS (PTY) LTD  Tel: +27 (0)31 468 5424 Fax:+27 (0)31 468 5429 www.prochem.co.za
2. Company / Plant				
MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax:+27 (0)11 486 1928 www.micronized.com info@micronized.com	Micronizing, milling, packing, distributing	Barytes 300#  Microblanc Std M'Blanc Ultra	On Average % BaSO <sub>4</sub> 86,9 SiO <sub>2</sub> 7,0 MgO 3,1 Fe <sub>2</sub> O <sub>3</sub> 2,1 LOI 0,27 S.G. 4,1  Sizing: 98% -53µm  On Average % BaSO <sub>4</sub> 92,5 SiO <sub>2</sub> 3,1 MgO 2,2 LOI 0,27 S.G. 4,2  Sizing: 95% -25µm (Std) 100% -25µm (Ultra)  25 kg paper bags	MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax:+27 (0)11 486 1928 www.micronized.com info@micronized.com
Note: * There are NO active barytes mines in South Africa				



## BENTONITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
1. Company/Mine				
<p>ATTA CLAY (PTY) LTD <b>(Mine Code 4020)</b> P O Box 261 1600 ISANDO</p> <p>Tel: +27 (0)11 974 8013 Fax: +27 (0)11 974 2019 www.attaclay.co.za</p> <p><u>Farm, District, Province</u> Maandagshoek 254 KT LYDENBURG MPUMALANGA</p>	Opencast; drying, screening & calcining	Bentonite	<p>On Average % SiO<sub>2</sub> 49,98 TiO<sub>2</sub> 0,30 Al<sub>2</sub>O<sub>3</sub> 16,48 Fe<sub>2</sub>O<sub>3</sub> 6,83 MgO 5,29 CaO 5,97 K<sub>2</sub>O 0,23 Na<sub>2</sub>O 0,14 LOI 13,33</p> <p>Cec.78.23meq/100gv Voscosity =325centipose Bulk density:1.07ton/m<sup>3</sup> Ph: 8.55</p>	<p>ELBROC MINING PRODUCTS (PTY) LTD P O Box 261 1600 ISANDO</p> <p>Tel: +27 (0)11 974 8013 Fax: +27 (0)11 974 2019 www.attaclay.co.za</p>
2. Group				
<p>ECCA HOLDINGS (PTY) LTD P O Box 8118 0046 CENTURION</p> <p>Tel: +27 (0)12 643 5931 Fax: +27 (0)12 643 5961 www.clay.co.za</p>				
2.1 Mine				
<p>CAPE BENTONITE (PTY) LTD <b>(Mine Code 2243)</b> P O Box 242 6076 HEIDELBERG</p> <p>Tel: +27 (0)28 722 2011 Fax: +27 (0)28 722 2927</p> <p><u>Farm, District, Province</u> Heidelberg, Plot 1412 HEIDELBERG WESTERN CAPE</p>	Opencast; drying, milling & granulating	<p>Powder granulated &amp; graded products (Na/Mg based)</p> <p>Eccabond A Eccabond N Eccabond F Eccacats Eccafeed Eccagel Eccagel H Eccaseal Eccavin Noodles Zeolite</p>	<p>On Average % SiO<sub>2</sub> 62,2 Al<sub>2</sub>O<sub>3</sub> 18,6 Fe<sub>2</sub>O<sub>3</sub> 3,5 LOI 7,9</p> <p><u>Granular</u> Moisture &lt; 10% Size: +2mm 10% -75 µm 10%</p> <p><u>Powder</u> Moisture &lt; 10% Size: -150µm 10%</p> <p><u>Packaging</u> for all products available on request; but generally Bulk, 1 ton bulk bags, 40 kg paper bags, 25 kg paper bags</p>	<p>IMERYSA (PTY) LTD P O Box 8118 0046 CENTURION</p> <p>Tel: +27 (0)12 643 5880 Fax: +27 (0)12 643 1966 www.clay.co.za</p>

## BENTONITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
3. Group				
G & W BASE & INDUSTRIAL MINERALS (PTY) LTD P O Box 14052 1422 WADEVILLE				
Tel: +27 (0)11 824 2710 Fax: +27 (0)11 824 2721 www.gwbase.co.za www.zimco.co.za				
3.1 Mine				
OCEAN BENTONITE MINE <b>(Mine Code 4226)</b> P O Box 68 9540 KOPPIES	Opencast; drying, milling, screening & selective activation	Ca-activated bentonite  Ocean MD Maxibond Pelbond Bentonite HV Envirogel Plus Envirobent	On Average % SiO <sub>2</sub> 59,1 Al <sub>2</sub> O <sub>3</sub> 18,6 Fe <sub>2</sub> O <sub>3</sub> 4,4 CaO 1,9 MgO 4,0 K <sub>2</sub> O 0,3 Na <sub>2</sub> O 2,5 LOI 8,9	G & W BASE & INDUSTRIAL MINERALS (PTY) LTD  Tel: +27 (0)11 878 0300 Fax: +27 (0)11 824 2720 www.gwbase.co.za
(OCEAN BENTONITE MINE continued)				
<u>Farm, District, Province</u> OCEAN 64, 69 Blauwboschpoort 13 KOPPIES FREE STATE		Ca-Bentonite Wine-grade bentonite  Main applications: Foundry, water treatment, dam sealing, pelletising, oil bleaching	Moisture: 6-12% Size: 95% -150µm pH: 10-10,5  40kg paper bags 1 ton Bulk Bags Bulk Tanker	Western Cape PROTEA INDUSTRIAL CHEMICALS (PTY) LTD P O Box 4535 8000 CAPE TOWN  Tel: +27 (0)21 550 8100 Fax: +27 (0)21 550 8180 www.prochem.co.za  KwaZulu-Natal PROTEA INDUSTRIAL CHEMICALS (PTY) LTD P O Box 12243 4026 JACOBS  Tel: +27 (0)31 468 5424 Fax: +27 (0)31 468 5429 www.prochem.co.za

## CALCITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
1. Group				
IDWALA INDUSTRIAL HOLDINGS (PTY) LTD Private Bag X93 1 Wedgelink Road Wedgehill Office Park 2021 BRYANSTON  Tel: +27 (0)11 706 0000 Fax:+27 (0)11 706 0044 www.idwala.co.za				
1.1 Company / Mine				
IDWALA LIME (PTY) LTD <b>(Mine Code 0660)</b> P O Box 89 8405 DANIELSKUIL  Tel: +27 (0)53 384 8599 Fax:+27 (0)53 384 0671 www.idwala.co.za  <u>Farm, District, Province</u> Ouplaas 304 Ptn 6 Siyanda District Council NORTHERN CAPE	Opencast; crushing, screening, milling, & classification	Limestone (Calcitic)          Cobbles Pebbles Granules Sinter 3mm Grain 2mm Grit Fines	On Average % CaCO <sub>3</sub> 96 MgCO <sub>3</sub> 2 SiO <sub>2</sub> 1 Fe <sub>2</sub> O <sub>3</sub> 0.2 Al <sub>2</sub> O <sub>3</sub> 0.2 MnO <sub>2</sub> 0,5  Sizing: -55mm +20 mm -20mm + 8mm -8mm + 4mm -5mm -4,2mm +2,8 mm 1 mm -2,8mm 150µm  50kg Paper Bags 1 ton Bulk bags Bulk in road trucks/ tankers  Specifications: CaCO <sub>3</sub> >95 % MgCO <sub>3</sub> <2.5% SiO <sub>2</sub> <1.5 %	Gauteng IDWALA SALES AND DISTRIBUTION P O Box 6056 1508 DUNSWART  Tel: +27 (0)11 914 2600 Fax:+27 (0)11 914 1293 www.idwala.co.za  KwaZulu-Natal IDWALA SALES AND DISTRIBUTION  Tel: +27 (0)31 579 3355 Fax:+27 (0)31 579 3399  Western Cape IDWALA SALES AND DISTRIBUTION  Tel: +27 (0)21 637 8155 Fax:+27 (0)21 637 8211
1.2 Company / Mine				
IDWALA CARBONATES (PTY) LTD <b>(Mine Code 0655)</b> P O Box 22 4240 PORT SHEPSTONE  Tel: +27 (0)39 687 8000 Fax:+27 (0)39 687 8071 www.idwala.co.za <u>Farm, District, Province</u> 2 Oribi Flats 10885 (Sub 1 of) 21 Oribi Flats Le Joncquet No. 7922 The Glen No. 6500 (Sub A) PORT SHEPSTONE KWAZULU/NATAL	Crushing, milling, screening, flotation & fine milling	Unfloated CaCO <sub>3</sub> products  Kulu- 15 Kulu- 40 Kulu- 45 Kulu- 200 C	Acid Insolubles< 5 Brightness 87/90  Sizing: 15µm 40µm 45µm 200µm	Gauteng IDWALA SALES AND DISTRIBUTION www.idwala.co.za  KwaZulu-Natal IDWALA SALES AND DISTRIBUTION  Western Cape IDWALA SALES AND DISTRIBUTION

## CALCITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
2. Company / Mine				
SYFERFONTEIN CARBONATE S (PTY) LTD (Mine Code 2768) P O Box 30 IRENE 0062  Tel: +27 (0)12 3454539/ 3176/ 3572/ 4286 +27 (0)147171155 Fax:+27 (0)123454058 0866240253/ 0866240383 customerservice@syferfontein.co.za sales@syferfontein.co.za	Central Processing Plant. Crushing Sizing & Milling	CALCITE (Calcium Carbonate) Branded 'Syfer C'  Various Crushed and Milled grades	CaCO <sub>3</sub> = 95% MgCO <sub>3</sub> = 3% SiO <sub>2</sub> = 1%  CaCO <sub>3</sub> = 88-90% MgCO <sub>3</sub> = 3-4% SiO <sub>2</sub> = 6-7%  LIMESTONE (Calcium Carbonate) Branded 'Syfer K'  Various Crushed and Milled grades.	SYFERFONTEIN CARBONATES (PTY) LTD P O Box 30 IRENE 0062  HEAD OFFICE: 84 Sovereign Drive Route 21 Corporate Park IRENE Ext 31 0062 RSA  Tel: +27 (0)12 345 4539/ 3176/ 4286 +27 (0)147171155 Fax:+27 (0)12 3454058 0866240253/ 0866240383  customerservice@syferfontein.co.za sales@syferfontein.co.za
<u>Farm, District, Province</u> Syferfontein 608 KR WATERBERG LIMPOPO PROVINCE RSA		DOLOMITE (Calcium Magnesium Carbonate) Branded 'Syfer D'  Various white filler grades both Crushed and Milled.	On Average % MgCO <sub>3</sub> = 92 MgO 45 SiO <sub>2</sub> 3-4 CaO 1,4 Fe <sub>2</sub> O <sub>3</sub> 0,4 Al <sub>2</sub> O <sub>3</sub> 0,2 LOI  Raw Magnesite can be sized / milled to clients request	
		MAGNESITE (Magnesium-Carbonate) Branded 'SyferMAG'  Various Crushed grades.	On Average % MgO 80-85 SiO <sub>2</sub> 6-8 CaO 2 Fe <sub>2</sub> O <sub>3</sub> 0,4 Al <sub>2</sub> O <sub>3</sub> 0,2 LOI 6	
		Various Milled grades		
		MAGNESIUM OXIDE (Caustic Magnesia) Branded 'SyferMOX'  Various Crushed grades	Sizing: 99% -250um 99% -150µm 100% -1mm 100% -1mm ND (de-dusted)	
		Various Milled grades.	All products sold in: 1 ton bulk bags 25 kg /40kgbags Bulk Tipper/Bulk Tanker. Note: All Top-cut values	

## DIATOMACEOUS EARTH / KIESELGUHR

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
1. Company				
DE HOEK KIESELGOER P O Box 150 8463 DIBENG				
Tel: +27 (0)53 723 1810 Fax: +27 (0)53 723 1902				
Mine				
1.1 ROSVILLE - ERITH <b>(Mine Code 3072)</b> P O Box 150 8463 KATHU	Opencast; Crushing, pelletising	Kieselguhr  Raw grade E34 Raw grade Calcined grade Calcined flux	On Average % SiO <sub>2</sub> 85,5-94,0 Fe <sub>2</sub> O <sub>3</sub> < 1,5 Al <sub>2</sub> O <sub>3</sub> < 4,5 CaO < 2,5 MgO < 1,2 LOI < 5,0  Moisture < 6,0% BD (dry) 120-200 g/l S.G. 1,9-2,1 pH 6 - 8 C. Thick 9-13 mm  Mean size: ±14µm ±16µm ±35µm 85% -8µm	S.A. SILICA TECHNOLOGIES (PTY) LTD P O Box 651 1930 VEREENIGING  Tel: +27 (0)16 450 4118 Fax: +27 (0)16 450 4324 www.sadiatomite.co.za jannie@ltmtech.co.za michael@ltmtech.co.za
Tel: +27 (0)53 723 1810 Fax: +27 (0)53 723 1902		Main applications: Molten steel & alloy insulation		
<u>Farm, District, Province</u> Erith 389 Rest Rosville 639 POSTMANSBURG NORTHERN CAPE		Raw grade Calcined grade Calcined flux E34 Raw grade		
			<u>Packaging:</u> 6 & 20 kg bags (or as required)	

## FELDSPAR

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. Company / Plant				
FINE INDUSTRIAL MINERALS CC <b>(Mine Code 3320)</b> P O Box 12927 1418 Elspark  Tel: +27 (0)11 824 2566/7 Fax:+27 (0)11 824 2670 fim@global.co.za	Screening, milling and classifying	Potassium feldspar  Main applications: Ceramics, fillers & extenders, glass, paint and abrasives  Feldspar 200/ 75# Feldspar 325/ 45#	On Average % SiO <sub>2</sub> 65,8 Al <sub>2</sub> O <sub>3</sub> 18,8 K <sub>2</sub> O 12,1 Na <sub>2</sub> O 2,1 Fe <sub>2</sub> O <sub>3</sub> 0,05 CaO 0,09  Sizing: 88% -63µm 93% -45µm  50kg bags/ 1 ton Bulk bag  Other packaging available on request	FINE INDUSTRIAL MINERALS CC P O Box 12927 1418 ELSPARK  Tel: +27 (0)11 824 2566 Fax:+27 (0)11 824 2670 abosman@tiscali.co.za
2. Group				
FREDDIES MINERALS (PTY) LTD POSTNET SUITE 69 PRIVATE BAG X1013 PHALABORWA 1390  Tel: +27 (0)15 769 6070 Fax:+27 (0)15 769 6070				
2.1 Mine				
MAORI MINE <b>(Mine Code 0211)</b> POSTNET SUITE 69 PRIVATE BAG X1013 PHALABORWA 1390  Tel: +27 (0)15 769 6070 Fax:+27 (0)15 769 6070 fredlo@xsinet.co.za  <u>Farm, District, Province</u> Morelag 5 KU PHALABORWA LIMPOPO PROVINCE	Opencast & Underground; crushing, washing, sorting, milling	Lumpy feldspar (Na and K)  Grade I Grade II	On Average % Na <sub>2</sub> O 2-3 K <sub>2</sub> O 6-9 Fe <sub>2</sub> O <sub>3</sub> 0,01  Sizing: 98,5% -1mm 98,5% -75µm  1 ton bulk bags Bulk	FREDDIES MINERALS (PTY) LTD P O Box 546 1390 PHALABORWA  Tel: +27 (0)15 769 6070 Fax:+27 (0)15 769 6070 fredlo@xsinet.co.za

## FELDSPAR

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
2.2	Mine			
MORELANG MINE- RHODA & SHEILA <b>(Mine Code 3935)</b> P O BOX 64 1390 PHALABORWA	Opencast; crushing, washing, sorting, milling	Lumpy feldspar (Na and K)	On Average % Na <sub>2</sub> O 2-3 K <sub>2</sub> O 6-9 Fe <sub>2</sub> O <sub>3</sub> 0,01	FREDDIES MINERALS (PTY) LTD P O Box 546 1390 PHALABORWA
Tel: +27 (0)15 769 6070 Fax: +27 (0)15 769 6076		Grade I Grade II	Sizing: 98,5% -1mm 98,5% -75µm	Tel: +27 (0)15 769 6070 Fax: +27 (0)15 769 6070
<u>Farm, District, Province</u> Rhoda 9 KU Sheila 1116 LS PHALABORWA LIMPOPO PROVINCE			1 ton bulk bags Bulk	
2.3	Plant			
MORELANG MINE MILLING <b>(Mine Code 3936)</b> P O Box 155 PHALABORWA 1390	Crushing, washing, sorting and milling	Lumpy feldspar (Na and K)	On Average % Na <sub>2</sub> O 2-3 K <sub>2</sub> O 6-9 Fe <sub>2</sub> O <sub>3</sub> 0,01	FREDDIES MINERALS (PTY) LTD P O Box 546 1390 PHALABORWA
Tel: +27 (0)15 769 6070 Fax: +27 (0)15 769 6070		Grade I Grade II	Sizing: 98,5% -1mm 98,5% -75µm	Tel: +27 (0)15 769 6070 Fax: +27 (0)15 769 6070
			1 ton bulk bags Bulk	
3.	Group			
GARIEB MINERALS (PTY) LTD P O Box 243 8160 VREDENDAL				
Tel: +27 (0)27 213 1659 Fax: +27 (0)27 213 1175				
3.1	Plant			
CAPE FELDSPAR (PTY) LTD <b>(Mine Code 0916)</b> P O Box 193 7581 BLACKHEATH	Milling plant	K-rich feldspar 325# (45µm)	On Average % SiO <sub>2</sub> 65,8 Al <sub>2</sub> O <sub>3</sub> < 18,9 Fe <sub>2</sub> O <sub>3</sub> < 0,06 CaO 0,11 K <sub>2</sub> O 11,8-12,7 Na <sub>2</sub> O < 3,4	CAPE FELDSPAR (PTY) LTD P O Box 193 7581 BLACKHEATH
Tel: +27 (0)21 905 1690 Fax: +27 (0)21 905 4592		Main applications: High grade porcelain, Filler in paint & rubber	LOI 0,24 Moisture < 0,1%	Tel: +27 (0)21 905 1690 Fax: +27 (0)21 905 4592
(GARIEB MINERALS continued)			Sizing: 95% -45µm	

## FELDSPAR

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING	
			99% -90µm 25 kg paper bags 50 kg paper bags 1 ton Bulk bags		
3.2	Mine				
	SWARTBERG FELDSPAR (PTY) LTD <b>(Mine Code 4255)</b> P O Box 243 8160 VREDENDAL  Tel: +27 (0)27 213 1659 Fax:+27 (0)27 213 1175  <u>Farm, District, Province</u> Violsdrift NAMAQUALAND NORTHERN CAPE	Opencast; handsorting	K-rich lumpy feldspar	On Average % Na <sub>2</sub> O < 3,4 K <sub>2</sub> O < 12,7  Sizing: As required  Bulk	SWARTBERG FELDSPAR (PTY) LTD P O Box 243 8160 VREDENDAL  Tel: +27 (0)27 213 1659 Fax:+27 (0)27 213 1175
4.	Group				
	INGWE MICA INDUSTRIES (PTY) LTD Private Bag X3011 1390 PHALABORWA  Tel: +27 (0)15 793 1880 Fax:+27 (0)15 793 1890 www.ingwemica.co.za gmic@lantic.net				
4.1	Company / Mine				
	GELLETICH MINING INDUSTRIES/ MARBLE BATH MINE <b>(Mine Code 0384)</b> Private Bag X3011 1390 PHALABORWA  Tel: +27 (0)15 793 1880 Fax:+27 (0)15 793 1890  <u>Farm, District, Province</u> Inyoku 159 KT Hoofpyn 269 KT PHALABORWA LIMPOPO PROVINCE	Opencast; underground crushing, washing and sorting	Lumpy feldspar, cob (Na, K & plagioclase)	On Average % Na <sub>2</sub> O 7,5 - 10 K <sub>2</sub> O 9 –11  Moisture: Nil  ROM, -300mm  Bulk	INGWE MICA INDUSTRIES (PTY) LTD Private Bag X3011 1390 PHALABORWA  Tel: +27 (0)15 793 1880 Fax:+27 (0)15 793 1890 gmic@lantic.net



## FELDSPAR

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
5.	Company/Plant			
	MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax: +27 (0)11 486 1928 www.micronized.com info@micronized.com	Milling & micronizing	Micronized feldspar (Microbrite products)  Microbrite 2 Microbrite 5 Microbrite 10 Microbrite 15  Microbrite 2 Microbrite 5 Microbrite 10 Microbrite 15	MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax: +27 (0)11 486 1928 www.micronized.com info@micronized.com
			On Average % SiO <sub>2</sub> 69,8 Al <sub>2</sub> O <sub>3</sub> 17,9 Fe <sub>2</sub> O <sub>3</sub> 0,1 (Na,K) <sub>2</sub> O 11,00 LOI 0,34  Sizing: 90% -10µm 90% -30µm 90% -50µm 90% -75µm  Loose BD in g/l: 400 550 700 800  Packaging as per clients request.	
6.	Group			
	PEGMIN (PTY) LTD Private Bag X3010 1390 PHALABORWA  Tel: +27 (0)15 793 1883 Fax: +27 (0)15 793 1439 pegmin@nix.co.za			
6.1	Mine			
	PEGMIN MINE (Mine Code 0497) Private Bag X3010 1390 PHALABORWA  Tel: +27 (0)15 793 1883 Fax: +27 (0)15 793 1439  <u>Farm, District, Province</u> Hoofpyn 159 KT Excellence 157 KT Inyoku 159 KT Islington 163 KT PHALABORWA LIMPOPO PROVINCE	Opencast; crushing, washing, sorting, screening, HMS, micronizing	Micronized feldspar Microbrite 5  Main applications: Paint, rubber, glass, plastics, ceramics	PEGMIN (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax: +27 (0)11 486 1928 www.micronized.com pegmin@nix.co.za
			On Average % SiO <sub>2</sub> 69,80 Al <sub>2</sub> O <sub>3</sub> 17,90 (Na,K) <sub>2</sub> O 11,00 Fe <sub>2</sub> O <sub>3</sub> 0,10 LOI 0,34 TiO <sub>2</sub> 0,05 Moisture: Nil  MP > 1000°C S.G. 2,59 BD (Loose) 700 g/l BD (Tanned) 900g/l Oil absorption: 28%  Sizing: 100% -45µm Min. 90% < 30µm  25, 40kg paper bags 500 kg bulk bags 1 ton bulk bags	

## FELDSPAR

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
7. Company / Mine  RATELGAT MINE <b>(Mine Code 2781)</b> P.O Box 56 8246 KOTZEESHOOP  Tel: +27 (0)27 761 8196  <u>Farm, District, Province</u> Korridor NAMAKWALAND NORTHERN CAPE	Opencast	Feldspar	On Average %	PETRONELLA VAN ZYL P O Box 56 8246 KOTZEESHOOP  Tel: +27 (0)27 761 8196 Fax:+27 (0)11 486 1928 www.micronized.com pegmin@nix.co.za

## FIRECLAY\*

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. Group				
CERAMIC INDUSTRIES LIMITED P O Box 1369 2128 RIVONIA  Tel: +27 (0)12 677 9600 Fax: +27 (0)12 661 1034 www.ceramic.co.za info@ceramic.co.za				
1.1 Mine				
BOEKENHOUTKLOOF QUARRY <b>(Mine Code 4698)</b> P O Box 2247 1930 VEREENIGING  Tel: +27 (0)16 930 3600 Fax: +27 (0)16 930 3866  <u>Farm, District, Province</u> Boekenhoutkloof 315 IQ, Ptn 69, 71, 72 & 101 PRETORIA GAUTENG	Opencast	Plastic clay Fireclay	Bulk	Sold exclusively to CERAMIC INDUSTRIES LTD
1.2 Mine				
CYBERFONTEIN QUARRY <b>(Mine Code 4699)</b> P O Box 2247 1930 VEREENIGING  Tel: +27 (0)16 930 3600 Fax: +27 (0)16 930 3866  <u>Farm, District, Province</u> Cyberfontein 457 KR, Rem of Ptn 1 WATERBERG LIMPOPO	Opencast	Plastic clay Fireclay	Bulk	Sold exclusively to CERAMIC INDUSTRIES LTD
1.3 Mine				
LEEUKUIL QUARRY <b>(Mine Code 0389)</b> P O Box 2247 1930 VEREENIGING  Tel: +27 (0)16 930 3600 Fax: +27 (0)16 930 3866 www.ceramic.co.za info@ceramic.co.za	Opencast	Plastic clay Fireclay	Bulk	Sold exclusively to CERAMIC INDUSTRIES LTD

## FIRECLAY\*

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING	
<u>Farm, District, Province</u> Leeukuil Ptn 122,144 and the Remaining Extent of Pton 98 of the Farm VAN DER BIJL PARK GAUTENG					
1.4	Mine				
	STEEL PARK QUARRY <b>(Mine Code 3855)</b> P O Box 2247 1930 VEREENIGING  Tel: +27 (0)16 930 3600 Fax: +27 (0)16 930 3866	Opencast; crushing to -40 mm as required by Customer	Fireclay  Ceramic clay: Johnson Tiles  Samca Tiles	On Average % SiO <sub>2</sub> 66,5 Al <sub>2</sub> O <sub>3</sub> 20,5 Fe <sub>2</sub> O <sub>3</sub> 2.3 LOI 6 Moisture 5.8	Sold exclusively to CERAMIC INDUSTRIES LTD
<u>Farm, District, Province</u> Steel Park 0; Vanderbijlpark 550 IQ; Ptn 51 Rem 6 WATERBERG LIMPOPO					
1.5	Mine				
	VLAKFONTEIN QUARRY <b>(Mine Code 4700)</b> P O Box 2247 1930 VEREENIGING  Tel: +27 (0)16 930 3600 Fax: +27 (0)16 930 3866	Opencast; crushing to -40 mm as required by Customer	Fireclay  Ceramic clay: Johnson Tiles	On Average % SiO <sub>2</sub> 66,5 Al <sub>2</sub> O <sub>3</sub> 20,5 Fe <sub>2</sub> O <sub>3</sub> 2.3 LOI 6 Moisture 5.8	Sold exclusively to CERAMIC INDUSTRIES LTD
<u>Farm, District, Province</u> Vlakfontein 546 IQ Ptns 29 & 35 WATERBERG LIMPOPO					
2.	Group				
	IMERYS SA (PTY)LTD P O Box 8118 0046 CENTURION  Tel: +27 (0)12 643 5880 Fax: +27 (0)12 643 1966 www.imerys.com				

## FIRECLAY\*

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
2.1 Mine				
CYFERFONTEIN PORTION 7 <b>(Mine Code 4321)</b> P O Box 8118 0046 CENTURION  Tel: +27 (0)12 643 5917 Fax: +27 (0)12 643 5961  <u>Farm, District, Province</u> Cyferfontein 457 KR Rem Ptn 7 PRETORIA GAUTENG	Opencast; crushing to -40 mm as required by Customer	Fireclay  Ceramic clay: Johnson Tiles  Samca Tiles	On Average % SiO <sub>2</sub> 66,5 Al <sub>2</sub> O <sub>3</sub> 20,5 Fe <sub>2</sub> O <sub>3</sub> 2.3 LOI 6 Moisture 5.8  On Average % SiO <sub>2</sub> 66,5 Al <sub>2</sub> O <sub>3</sub> 20,5 Fe <sub>2</sub> O <sub>3</sub> 2.3 LOI 6 Moisture 5.8	IMERYS SA (PTY)LTD P O Box 8118 0046 CENTURION  Tel: +27 (0)12 643 5880 Fax: +27 (0)12 643 1966 www.imerys.com
3. Company / Mine				
NDEBELE MINING CO (PTY) LTD <b>(Mine Code 2225)</b> P O Box 443 1000 CULLINAN  Tel: +27 (0)13 930 7010/ 44 Fax: +27 (0)13 930 7003  <u>Farm, District, Province</u> Leeufontein 466 JR BRONKHORSTSPRUIT GAUTENG	Opencast mining & milling, classification , drying and mixing of products	Fireclay & Kaolin products  NP Raw  NPP NPP 8%  (PP = Partly processed)	On Average % SiO <sub>2</sub> 46,83 Al <sub>2</sub> O <sub>3</sub> 36,26 Fe <sub>2</sub> O <sub>3</sub> 2,04 TiO <sub>2</sub> 2,05  MgO 0,28 CaO 0,15 LOI 12,53  Sizing: <u>NPP 35#</u> 90% -400µm  <u>NPC 200#</u> 90% -65µm  Packaging: 40 & 500 kg bags 1 ton bulk bags Bulk tankers Bulk	NDEBELE MINING CO (PTY) LTD P O Box 443 1000 CULLINAN  Tel: +27 (0) 930 7010/ 44 Fax: +27 (0)13 930 7003
4. Company / Mine				
PHEZULU CLAY QUARRIES <b>(Mine Code 1372)</b> P O Box 585 0062 IRENE  Tel: +27 (0)12 667 5436 Fax: +27 (0)123 667 3426  <u>Farm, District, Province</u> Blesbokfontein 459 JR BRONKHORSTSPRUIT GAUTENG	Opencast mining	Fireclay & Flintclay	On Average % SiO <sub>2</sub> 52 Al <sub>2</sub> O <sub>3</sub> 35 Fe <sub>2</sub> O <sub>3</sub> 1.2 TiO <sub>2</sub> >1 LOI 6%	PHEZULU CLAY QUARRIES P O Box 585 0062 IRENE  Tel: +27 (0)12 667 5436 Fax: +27 (0)123 667 3426

## FIRECLAY\*

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
4. Group				
VEREENIGING REFRAC- TORIES (VERREF) – MINERALS DIVISION P O Box 2072 1930 VEREENIGING				
Tel: +27 (0)16 450 6110 Fax: +27 (0)86 623 9231				
4.1 Mine				
HAMMANSKRAAL FIRE- CLAY QUARRY <b>(Mine Code 0393)</b> P O Box 117 1930 VEREENIGING	Opencast; crushing to - 40 mm as required by Customer	Plastic clay	On Average % Al <sub>2</sub> O <sub>3</sub> 38,0 Fe <sub>2</sub> O <sub>3</sub> 3,0 SiO <sub>2</sub> 53,5 LOI 14,0	Sold exclusively to VERREF
Tel: +27 (0)16 450 6213 Fax: +27 (0)86 270 8756			Plastic index 10 PCE 31,0 Lump form Bulk	
<u>Farm, District, Province</u> Klipdrift 87 & 116 JR Verbrick 117 JR Ptn 6 WONDERBOOM GAUTENG		Fireclay	On Average % Al <sub>2</sub> O <sub>3</sub> 39,1 Fe <sub>2</sub> O <sub>3</sub> 1,5 SiO <sub>2</sub> 57,0 LOI 13,0	
			PCE 31,0 Lump form Bulk	
4.2 Mine				
RIETFontein CLAY QUARRY <b>(Mine Code 0390)</b> P O Box 117 1930 VEREENIGING	Opencast; calcining and sorting	Plastic clay Fireclay Flintclay	See data specs above [Hammans- kraal Quarry]	Sold exclusively to VERREF
Tel: +27 (0)16 450 6213 Fax: +27 (0)86 270 8756				
<u>Farm, District, Province</u> Nanescol 582 IQ Rietfontein 28 IR Ptn 80 Rietfontein 583 IQ SPRINGS GAUTENG				

Note: \* Includes ball clay

## FLINTCLAY

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
1. Company / Mine				
REFRACTORY MINERALS (PTY) LTD** <b>(Mine Code 0073)</b> P O Box 8118 0046 CENTURION	Opencast	Super Chamotte	On Average % Al <sub>2</sub> O <sub>3</sub> 44,3 Fe <sub>2</sub> O <sub>3</sub> 0,64 K <sub>2</sub> O 0,51 LOI 0,13 BD 2,58 g/cm <sup>3</sup>	IMERYSA SA (PTY) LTD P O Box 8118 0046 CENTURION  Tel: +27 (0)12 643 5917 Fax: +27 (0)12 643 5961  www.clay.co.za
Tel: +27 (0)12 643 5917 Fax: +27 (0)12 643 5961				
<u>Farm, District, Province</u> Nooitgedacht 436 JR Roodepoort 439 JR BRONKHORSTSPRUIT GAUTENG		Chamco	On Average % Al <sub>2</sub> O <sub>3</sub> 43,1 Fe <sub>2</sub> O <sub>3</sub> 1,14 K <sub>2</sub> O 0,56 LOI 1,79 BD 2,58 g/cm <sup>3</sup>	
Note: ** DIVISION OF IMERYSA SA & ECCA HOLDINGS (PTY) LTD				
		Raw Black fines	On Average % Fe <sub>2</sub> O <sub>3</sub> < 1,30 K <sub>2</sub> O < 0,6 LOI 11-16	
			<u>Sizing (mm):</u> Bulk, 0-22mm, 6-10mm, 3-6mm, 1-3mm, 0-1mm, 60#, 200#	
			<u>Sizing (mm):</u> Bulk, 6-10mm, 3-6mm, 1-3mm, 0-1mm.	
			<u>Sizing:</u> Raw fines, 170#	
			<u>Packaging</u> details available on request; generally: Bulk, 1 ton bulk bags, 40 kg paper bags	
2. Group				
VEREENIGING REFRAC- TORIES (VERREF) – MINERALS DIVISION P O Box 2072 1930 VEREENIGING				
Tel: +27 (0)16 450 6110 Fax: +27 (0)86 623 9231				
2.1 Mine				
HAMMANSKRAAL QUARRY <b>(Mine Code 0393)</b>	Opencast, calcining & sorting	Flintclay Plastic clay Fireclay	See FIRECLAY – VERREF MINERALS	Sold exclusively to VERREF
2.2 Mine				
RIETFontein CLAY QUARRY (Mine Code 0390)	Opencast	Flintclay Plastic clay Fireclay	See FIRECLAY – VERREF MINERALS	Sold exclusively to VERREF

## FLUORSPAR

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
1. Group				
MINERALES Y PRODUCTOS DERIVADOS SA San Vicente, 8 Edificio Albia 1-5 Planta Bilbao Spain				
Tel: +34 (94) 425 5508 Fax: +34 (94) 423 1772 farevalom@minersa.es				
1.1 Mine				
VERGENOEG MINING COMPANY (PTY) LTD <b>(Mine Code 0682)</b> Private Bag X2 0159 MONTANA PARK	Opencast; crushing, milling, flotation and drying	Acidspar	On Average % CaF <sub>2</sub> 97,0 SiO <sub>2</sub> < 0,4 P <sub>2</sub> O <sub>5</sub> <1000 ppm As <12 ppm  Sizing: 65% -45µm Moisture < 10% Bulk	<u>Local</u>  VERGENOEG MINING COMPANY (PTY) LTD Private Bag X202 0420 PIENAAR'S RIVER  Tel: +27 (0)12 723 7022 Fax: +27 (0)12 723 0045 admin@vergenoeg.co.za
Tel: +27 (0)12 723 7025 Fax: +27 (0) 86 666 2545 admin@vergenoeg.co.za				
<u>Farm, District, Province</u> Kromdraai 209 JR CULLINAN GAUTENG PROVINCE		Metspar Powder*	On Average % CaF <sub>2</sub> 88,0 SiO <sub>2</sub> < 2  Sizing: 65% -45µm Moisture <10% Bulk	<u>Export</u> (acidspar products)  MINERALES Y PRODUCTOS DERIVADOS SA San Vicente, 8 Edificio Albia 1-5 Planta Bilbao Spain
		Dried Metspar Powder*	On Average % CaF <sub>2</sub> 88,0 SiO <sub>2</sub> < 2 P <sub>2</sub> O <sub>5</sub> -  Sizing: 65% -45µm Moisture < 0,01% 25 kg bags 1 ton bulk bags	Tel: +34 (94) 425 5508 Fax: +34 (94) 423 1772 farevalom@minersa.es



## FLUORSPAR

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
2. Group				
SALLIES LIMITED PRIVATE Bag x1315 2865 ZEERUST				
Tel: +27 (0)18 642 8400 Fax: +27 (0)18 642 8427 sallies@global.co.za info@witkop.co.za				
2.1 Mine				
WITKOP FLUORSPAR MINE (PTY) LTD <b>(Mine Code 0731)</b> Private Bag X1315 2865 ZEERUST	Opencast; crushing, milling, flotation, drying and briquetting	Acid grade - Filter cake	On Average % CaF <sub>2</sub> >97 CaCO <sub>3</sub> <1.50 MgCO <sub>3</sub> <1.20 SiO <sub>2</sub> < 0,50 Fe <sub>2</sub> O <sub>3</sub> < 0,50 P <sub>2</sub> O <sub>5</sub> < 220 ppm  Moisture < 10% Sizing >94% -106µm Bulk	WITKOP FLUORSPAR MINE (PTY) LTD Private Bag X1315 2865 ZEERUST  Tel: +27 (0)18 642 8400 Fax: +27 (0)18 642 8427 wfmine@global.co.za
Tel: +27 (0)18 642 8400 Fax: +27 (0)18 642 8427 wfmine@global.co.za				
<u>Farm, District, Province</u> Wintershoek 303 JP MARICO NORTH-WEST		Ceramic grade - Filter cake	On Average % CaF <sub>2</sub> >96 CaCO <sub>3</sub> <1.50 MgCO <sub>3</sub> <1.00 SiO <sub>2</sub> < 0,60 Fe <sub>2</sub> O <sub>3</sub> < 0,60 P <sub>2</sub> O <sub>5</sub> < 220 ppm  Moisture < 10% Sizing >94% -106µm Bulk	Low volume users: MERLIN METALS  Tel: +27 (0)11 888 6154 Fax: +27 (0)11 782 5169
<b>Note:</b> The mine is on care and maintenance				
		Mettalurgical - Dried	On Average % CaF <sub>2</sub> >80 CaCO <sub>3</sub> <8 MgCO <sub>3</sub> <6 SiO <sub>2</sub> < 2 Fe <sub>2</sub> O <sub>3</sub> < 2 P <sub>2</sub> O <sub>5</sub> < 300 ppm Moisture < 10% Sizing > 94% -106µm 25 kg paper bags Bulk tanker	
		- Briquettes	On Average % CaF <sub>2</sub> >75 CaCO <sub>3</sub> <8 MgCO <sub>3</sub> <7 SiO <sub>2</sub> < 2 Fe <sub>2</sub> O <sub>3</sub> < 2 P <sub>2</sub> O <sub>5</sub> < 300 ppm  Moisture < 0.3%	

**FLUORSPAR**

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
			Sizing : 30x20x15mm 1 ton bags Bulk	
3. Group				
FLUORMIN PLC 83 Baker Street LONDON WLU 6AG				
Tel: +44 (0)20 7034 7150 info@fluormin.com				
3.1 Mine				
BUFFALO FLUORSPAR MINE (PTY) LTD <b>(Mine Code 0075)</b> Private Bag X51 0560 MOOKGOPONG  Tel: +27 (0)14 743 1121 Fax: +27 (0)18 743 1873  <u>Farm, District, Province</u> Buffelsfontein 347 KR MOKOPANE LIMPOPO PROVINCE  <b>Note:</b> The mine is on care and maintenance	Opencast; milling, flotation and drying	Acid grade	On Average % CaF <sub>2</sub> 97.2 CaCO <sub>3</sub> 0.91 SiO <sub>2</sub> 0,74 P <sub>2</sub> O <sub>5</sub> 0.19 C 0.12 S 0.12 As 2 ppm  BD 1.96g/ml Moisture < 5.73  Sizing: 44.3% -45µm 74.1% -75µm 100% -425µm  1 ton bags 25 kg paper bags Bulk  <b>Metalurgical grade</b> by request only.	BUFFALO FLUORSPAR MINE (PTY) LTD Private Bag X51 0560 MOOKGOPONG  Tel: +27 (0)14 743 1121 Fax: +27 (0)18 743 1873

## GYPSUM

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. Company / Mine				
AFMINE CC <b>(Mine Code 2249)</b> P O Box 55107 7435 MILNERTON	Opencast; crushing & washing	Raw gypsum  Agricultural, cement uses	CaSO <sub>4</sub> .2H <sub>2</sub> O 85-92% Moisture < 5%  Sizing: 90% -2 mm 50% -250 µm	AFMINE CC P O Box 55107 7435 MILNERTON  Tel: +27 (0)21 557 4624 Fax: +27 (0)21 552 9931 afmine@intekom.co.za
<u>Farm, District, Province</u> Yzerfontein 560 Ptn 15 & 21 MALMESBURY WESTERN CAPE				
2. Group				
LAFARGE GYPSUM HOLDING PO BOX 167025, BRACKENDOWNS, 1454 ALBERTON				
Tel: +27 (0)11 866 2333 Fax: +27 (0)11 252 6085				
2.1 Mine				
GEELVLOER / HENDRIK ZYN PUTS <b>(Mine Code 3941)</b> PO BOX 167025, BRACKENDOWNS, 1454 ALBERTON	Opencast	Gypsum		LAFARGE GYPSUM HOLDING PO BOX 167025, BRACKENDOWNS, 1454 ALBERTON
Tel: +27 (0)54 651 0902 Fax: +27 (0)54 252 0903				
<u>Farm, District, Province</u> Geelvloer 196 Hendrik Zyn Puts 240 Kenhardt, Northern Cape				
3. Group				
PRETORIA PORTLAND CEMENT CO LTD P O Box 787416 2146 SANDTON				
Tel: +27 (0)11 386 9000 Fax: +27 (0)11 386 9001 contactus@ppc.co.za www.ppc.co.za www.ppcement.co.za				

## GYPSUM

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
3.1	Mine			
MT STEWART GYPSUM <b>(Mine Code 2674)</b> Private Bag x 2016 6050 NORTH END	Opencast	Gypsum	CaSO <sub>4</sub> .2H <sub>2</sub> O 42% Sizing: 64% +50 mm 24% -50 mm	Gypsum sold exclusively to PPC CEMENT
Tel: +27 (0)41 486 2272 Fax: +27 (0)41 486 2145				
<u>Farm, District, Province</u> Bluegumvale 256 JANSENVILLE EASTERN CAPE				
4.	Group			
SA LIME EASTERN CAPE (PTY)(LTD) – PO BOX 12444, 0028 HATFIELD				
Tel: +27 (0)12 346 4594 Fax: +27 (0)12 346 4359				
4.1	Mine			
SA LIME EASTERN CAPE (PTY)(LTD) – MOUNT STEWARD <b>(Mine code 4692)</b> PO BOX 12444, 0028 HATFIELD	Opencast	Gypsum		SA LIME EASTERN CAPE (PTY)(LTD) – PO BOX 12444, 0028 HATFIELD
Tel: +27 (0)54 552 3090 Fax: +27 (0)54 551 3761				
<u>Farm, District, Province</u> East of Gous Kraal 257 Ptn, STEYTLERVILLE, EASTERN CAPE				
5.	Group			
SAINT –GOBAIN GYPROC (PTY) LTD P O Box 101 8170 VANRHYNSDORP				
Tel: +27 (0)27 279 1610 Fax: +27 (0)27 279 1501				

## GYPSUM

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
5.1	Mine			
BOESMANLAND MINE <b>(Mine Code 1612)</b> P O Box 101 8170 VANRHYNSDORP	Opencast	Raw gypsum	CaSO <sub>4</sub> .2H <sub>2</sub> O 85% Sizing: 125 mm to -20µm Moisture: 2% Bulk	SAINT –GOBAIN GYPROC (PTY) LTD P O Box 101 8170 VANRHYNSDORP
Tel: +27 (0)27 279 1610 Fax: +27 (0)27 279 1501		<u>Value-added, local products:</u> Agrigyp Gypfil Industrial Gyp. Landgyp Multiseal Natural Gypsum Retarded Std Rhinoiline Rhino mould Rhinoset Standard Plaster Supergyp Super Special	STANDARD PLASTER & RETARDED PLASTER  CaSO <sub>4</sub> .2H <sub>2</sub> O 92-96% BD 0,6-0,8 g.cm <sup>-3</sup> S.G. 2,6 pH 4-7 C. Strength 4-6N/mm <sup>2</sup> Total moisture: 5-7% Packaging: 40kg bags 1 ton bulk bags	Tel: +27 (0)27 279 1610 Fax: +27 (0)27 279 1501
<u>Farm, District, Province</u> Waterkuil 185 Konnas 183 CALVINIA NORTHERN CAPE		<u>Imported products:</u> Alfamolde 7F Crystacal Base Dentstone KD Dental plaster Escayola E35 Hydrostone TB	SUPER SPECIAL  CaSO <sub>4</sub> .2H <sub>2</sub> O 92-96% BD 0,3-0,6 g.cm <sup>-3</sup> S.G. 2,3 pH 3-6 Sizing: 99,15% -25µm Total moisture: 17-19% Packaging: 25 kg bags  NATURAL GYPSUM  CaSO <sub>4</sub> 88-92% Assumed CaCO <sub>3</sub> 4,5% Acid insolubles: 5-9% Free moisture: 3-5% Sizing > 20% -150µm  INDUSTRIAL GYPSUM  CaSO <sub>4</sub> .2H <sub>2</sub> O 94-96% BD 0,5-0,7 g.cm <sup>-3</sup> S.G. 2,3 pH 3-6 Mean Size: 30µm Total moisture: 18-20% Free moisture: 0-0,5% Packaging: 40 kg bags  LANDGYP - AGRI  CaSO <sub>4</sub> 80-90% Cl 0,004 -0,15 S.G. 2,3 pH 6,5-7,5 Total moisture < 19%	

## GYPSUM

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
			Sizing: 1,7mm -1µm 30% Min. -250µm Packaging: 40 kg bags 1 ton bulk bags	
5.2	Mine			
	MASKAM MINE <b>(Mine Code 0130)</b> P O Box 101 8170 VANRHYNSDORP	Opencast; crushing & washing	Raw gypsum	CaSO <sub>4</sub> .2H <sub>2</sub> O 84% Sizing: 2-12mm Moisture: 3,7% Bulk
	Tel: 027 219 1500 Fax: 027 219 1501			
	<u>Farm, District, Province</u> Duinen 258 Zandveld 244 VANRHYNSDORP WESTERN CAPE			
6.	Group			
	SPACE MINERALS PTY (LTD) PO BOX 160, 7435 MILNERTON			
	Tel: +27 (0)21 552 3090 Fax: +27 (0)54 551 3761			
6.1	Mine			
	KOLKIES RIVIER <b>(Mine code 4516)</b> PO BOX 160, MILNERTON, 7435	Opencast	Gypsum	SPACE MINERALS PTY (LTD) PO BOX 160, 7435 MILNERTON
	<u>Farm, District, Province</u> Kolkies Rivier 234, Ceres, Western Cape			Tel: +27 (0)21 552 3090 Fax: +27 (0)54 551 3761
	Tel: +27 (0)54 552 3090 Fax: +27 (0)54 551 3761			

## KAOLIN

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. Company / Mine				
ATLAS CLAY (PTY) LTD <b>(Mine Code 0258)</b> P O Box 1449 2520 POTCHEFSTROOM  Tel: +27 (0)18 294 4604 Fax:+27 (0)86 655 5254 atlasclay@mweb.co.za  <u>Farm, District, Province</u> Haaskraal 460 IQ POTCHEFSTROOM NORTH WEST	Opencast; crushing & milling	Semi-plastic clay	On Average % SiO <sub>2</sub> 54,00 Al <sub>2</sub> O <sub>3</sub> 26,00 Fe <sub>2</sub> O <sub>3</sub> 6,70 TiO <sub>2</sub> 0,50 MgO 0,21 CaO 0,20  Bulk	ATLAS CLAY (PTY) LTD P O Box 1449 2520 POTCHEFSTROOM  Tel: +27 (0)18 294 4604 Fax:+27 (0)86 655 5254 atlasclay@mweb.co.za
2. Group				
EAST CAPE QUARRIES (PTY) LTD P O Box 2021 6140 GRAHAMSTOWN  Tel: +27 (0)46 622 5298 Fax:+27 (0)46 622 5298 kaolinquarries@telkomsa .net				
2.1 Mine				
GLENHOEK MINE <b>(Mine Code 1294)</b> P O Box 2021 6140 GRAHAMSTOWN  Tel: +27 (0)46 622 5298 Fax:+27 (0)46 622 5298  <u>Farm, District, Province</u> Paynes Kraal 362 ALBANY EASTERN CAPE	Opencast	Glenhoek White	On Average % SiO <sub>2</sub> 60,73 Al <sub>2</sub> O <sub>3</sub> 27,02 Fe <sub>2</sub> O <sub>3</sub> 0,90 TiO <sub>2</sub> 0,91 MgO 0,23 LOI 6,70  Moisture: 5-10% Sizing: 100% -150µm Bulk	EAST CAPE QUARRIES (PTY) LTD P O Box 2021 6140 GRAHAMSTOWN  Tel: +27 (0)46 622 5298 Fax:+27 (0)46 622 5298
2.2 Mine				
KLEIHOOGTE <b>(Mine Code 3757)</b> P O Box 2021 6140 GRAHAMSTOWN  Tel: +27 (0)46 622 5298 Fax:+27 (0)46 622 5298  <u>Farm, District, Province</u> Paynes Kraal 362 ALBANY EASTERN CAPE	Opencast	Kleihoogte Kaolin	On Average% SiO <sub>2</sub> 60.53 Al <sub>2</sub> O <sub>3</sub> 27.7 Fe <sub>2</sub> O <sub>3</sub> 0.77 TiO <sub>2</sub> 0.82 MgO 0.33 LOI 6.52  Moisture: 5-10% Sizing: 100% -150µm Bulk	EAST CAPE QUARRIES (PTY) LTD P O Box 2021 6140 GRAHAMSTOWN  Tel: +27 (0)46 622 5298 Fax:+27 (0)46 622 5298

## KAOLIN

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
2.3	Mine			
MAYFIELD MINE <b>(Mine Code 2075)</b> P O Box 2021 6140 GRAHAMSTOWN  Tel: +27(0)46 622 5298 Fax:+27(0)46 622 5298  <u>Farm, District, Province</u> Mayfield Ptn 3 of Brakkefontein 243 ALBANY EASTERN CAPE	Opencast	Mayfield Clay	On Average % SiO <sub>2</sub> 66,64 Al <sub>2</sub> O <sub>3</sub> 22,90 Fe <sub>2</sub> O <sub>3</sub> 0,68 TiO <sub>2</sub> 0,74 MgO 0,34 LOI 5,69  Moisture: 5-10% Sizing: 100% -150µm Bulk	EAST CAPE QUARRIES (PTY) LTD P O Box 2021 6140 GRAHAMSTOWN  Tel: +27 (0)46 622 5298 Fax:+27 (0)46 622 5298
		Superwhite	On Average % SiO <sub>2</sub> 66,64 Al <sub>2</sub> O <sub>3</sub> 22,90 Fe <sub>2</sub> O <sub>3</sub> 0,68 TiO <sub>2</sub> 0,74 MgO 0,34 LOI 5,69  Moisture: 5-10% Sizing: 100% -150µm Bulk	
3.	Group			
G & W BASE & INDUSTRIAL MINERALS (PTY) LTD P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 878 0300 Fax:+27 (0)11 824 2720 www.gwbase.co.za				
3.1	Mine			
STROWAN KAOLIN <b>(Mine Code 0627)</b> P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 878 0343 Fax:+27 (0)86 682 0690  <u>Farm, District, Province</u> Strowan C Portion of Zyferfontein ALBANY EASTERN CAPE	Opencast, sorted	Kaolin G1 Kaolin G3 Kaolin (dry)  Main applications: Ceramics, paint, adhesives, rubber, plastics & fillers	On Average % SiO <sub>2</sub> 67,6 Al <sub>2</sub> O <sub>3</sub> 22,5 Fe <sub>2</sub> O <sub>3</sub> 0,32 TiO <sub>2</sub> 0,73 LOI 6,0  Sizing: 99% -53µm BD 0,64 g/cm <sup>3</sup> pH 5-9  <u>Moisture</u> Crude: 6-12% Milled: 2-5%  25 kg paper bags Bags, Bulk crude	Gauteng G & W BASE & INDUSTRIAL MINERALS (PTY) LTD P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 878 0300 Fax:+27 (0)11 824 2720 www.gwbase.co.za  Western Cape PROTEA INDUSTRIAL CHEMICALS (PTY) LTD  Tel: +27 (0)21 550 8100 Fax:+27 (0)21 550 8180



## KAOLIN

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
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www.prochem.co.za

KwaZulu-Natal  
PROTEA INDUSTRIAL  
CHEMICALS (PTY) LTD

Tel: +27 (0)31 468 5424  
Fax: +27 (0)31 468 5429  
www.prochem.co.za

## 4. Company / Mine

NDEBELE MINING  
CO (PTY) LTD  
**(Mine Code 2225)**  
P O Box 443  
1000 CULLINAN

Tel: +27 (0)82 808 9166  
Fax: +27 (0)86 725 1221  
ndebelemining@gmail.com

Farm, District, Province  
Leeufontein 466 JR  
Loopspruit 435 JR  
Nooitgedacht 436 JR  
Yzervarkfontein 467 JR  
BRONKHORSTSPRUIT  
GAUTENG

Opencast;  
Milling,  
mixing &  
classifying

Kaolin and  
fireclay products

NP Raw  
NPP  
NPP 8%  
(PP = partly  
processed)

NPC  
NPC 1%  
(PC = classified)

Stoneware &  
earthenware  
clays for  
throwing, slab  
building, casting  
& sculpture.

On Average%  
SiO<sub>2</sub> 46,83  
Al<sub>2</sub>O<sub>3</sub> 36,26  
Fe<sub>2</sub>O<sub>3</sub> 2,04  
TiO<sub>2</sub> 2,05  
MgO 0,28  
CaO 0,15  
LOI 12,53

Sizing:  
NPP 35#  
90% -400µm

NPC 200#  
90% -65µm

Packaging:  
40 & 500 kg bags  
1 ton bulk bags  
Bulk tankers  
Bulk

NDEBELE MINING CO  
(PTY) LTD  
P O Box 443  
1000 CULLINAN

Tel: +27 (0)82 808 9166  
Fax: +27 (0)86 725 1221  
ndebelemining@gmail.com

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. Group				
AFRICAN JADE MINING (PTY) LTD P O Box 34144 0010 GLENSTANTIA				
Tel: 012 998 5066 Fax: 012 998 3985				
1.1 Mine				
BELFAST JADE MINE (Mine Code 3822) P O Box 34144 0010 GLENSTANTIA	Opencast	Limestone	On Average % SiO <sub>2</sub> 7,23 Fe <sub>2</sub> O <sub>3</sub> 0,60 Al <sub>2</sub> O <sub>3</sub> 1,21 CaO 29,7 Moisture: 0,05%	GALACTIC MINERALS (PTY) LTD P O Box 34144 0010 GLENSTANTIA
Tel: 012 998 5066 Fax: 012 998 3985 africanjade@3gi.co.za		Powder		Tel: 012 998 5066 Fax: 012 998 3985 galacticminerals@3gi.co.za
		Wet	On Average % SiO <sub>2</sub> 7,29 Fe <sub>2</sub> O <sub>3</sub> 0,56 Al <sub>2</sub> O <sub>3</sub> 1,23 CaO 30,0 Moisture: 11,7%	
			20 kg paper bags	
2. Group				
AFRIMAT LTD P O Box 450 0001 PRETORIA				
Tel: +27 (0)12 307 3098 Fax: +27 (0)12 307 5703 www.afrimat.co.za				
2.1 Mine				
GLEN DOUGLAS DOLOMITE MINE (Mine Code 0230) P O Box 3 HENLEY-ON-KLIP 1962 MEYERTON	Opencast; washing, crushing & sizing	Metallurgical dolomite, aglime & aggregate	On Average % CaCO <sub>3</sub> 54,2 MgCO <sub>3</sub> 41,7 SiO <sub>2</sub> 2,5  Moisture: 0 - 7% Average moisture: 4% SABS 1083 approved	GLEN DOUGLAS DOLOMITE MINE P O Box 3 HENLEY-ON-KLIP 1962 MEYERTON
Tel: +27 (0)16 366 0321 Fax: +27 (0)16 366 1220				Tel: +27 (0)16 366 0321 Fax: +27 (0)16 366 1220
<u>Farm, District, Province</u> Witkoppie 58 IR Slangfontein 372 IR VEREENIGING GAUTENG			<u>Sizing:</u> -53mm -37mm -19mm -13,2mm -9,5mm -4,75mm	

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
			Sands	
			Bulk	
3. Group				
AFRISAM SA(PTY) LTD P O Box 6367 1715 WELTEVREDEN PARK				
Tel: +27 (0)11 670 5500 Fax: +27 (0)11 670 5793 www.afrisam.com				
3.1 Mine				
AFRISAM SA - DUDFIELD <b>(Mine Code 0015)</b> P O Box 600 2740 LICHTENBURG	Opencast; crushing, screening & milling	Limestone for cement manufacture	On Average % CaCO <sub>3</sub> 78,82 MgCO <sub>3</sub> 1,74 SiO <sub>2</sub> 12,68 Moisture: 6,74%	<u>AFRISAM SA(PTY) LTD</u> P O Box 6367 1715 WELTEVREDEN PARK  Tel: +27 (0)11 670 5500 Fax: +27 (0)11 670 5793 www.afrisam.com
Tel: +27 (0)18 633 6000 Fax: +27 (0)18 633 6017		Cement products: APC Cement HS Cement RH Cement	<u>Cement packaging:</u> Bulk tankers 50kg bags Bulk	Cement purchases: Tel: +27 (0)11 670 5777* Tel: +27 (0)11 670 5555**
<u>Farm, District, Province</u> Dudfield 35 IP LICHTENBURG NORTH WEST				* Readymix products ** Bagged products
3.2 Mine				
AFRISAM SA - ULCO QUARRY <b>(Mine Code 0659)</b> Private Bag X1 8390 ULCO	Opencast; crushing, screening & milling	Limestone for cement manufacture	On Average % CaCO <sub>3</sub> 84,85 MgCO <sub>3</sub> 2,66	<u>AFRISAM SA(PTY) LTD</u> P O Box 6367 1715 WELTEVREDEN PARK
Tel: +27 (0)53 562 9100 Fax: +27 (0)53 562 9155		Cement products: APC Cement HS Cement RH Cement	Moisture: 1,99%  <u>Sizing</u> Raw mix: 12,5% < 90µm (CaCO <sub>3</sub> & shale mix)	Tel: +27 (0)11 670 5500 Fax: +27 (0)11 670 5793 www.afrisam.com
<u>Farm, District, Province</u> Die Puts NW 72 Bergville 216, Harrison (Delpportshoop) Lime 1 (215), 2 (215) Groot Rietfontein BARKLY WEST NORTHERN CAPE			<u>Cement packaging:</u> Bulk tankers 50kg bags Bulk	Cement purchases: Tel: +27 (0)11 670 5777* Tel: +27 (0)11 670 5555**  * Readymix products ** Bagged products

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
4. Group				
AGRI LIME (PTY) LTD P O Box 20366 0305 PROTEA PARK  Tel: +27 (0)14 536 3750 Fax: +27 (0)14 536 3721 admin@agrilime.com				
4.1 Mine				
STONY LIME (PTY) LTD <b>(Mine Code 3337)</b> P O Box 20366 0305 PROTEA PARK  Tel: +27 (0)14 536 9900 Fax: +27 (0)14 536 9902  <u>Farm, District, Province</u> Pony 395 KQ Ptn 1 THABAZIMBI LIMPOPO PROVINCE	Opencast; crushing & milling	Aglime Feed additive	On Average % CaCO <sub>3</sub> 95  Sizing: -150µm to 70mm  50 kg bags 1 ton bags Bulk tankers Bulk tippers Bulk	AGRI LIME (PTY) LTD P O Box 20366 0305 PROTEA PARK  Tel: +27 (0)14 536 3750 Fax: +27 (0)14 536 3721 admin@agrilime.com
5. Group				
BONTEBOK LIMEWORKS (PTY) LTD P O Box 2 7280 BREDASDORP  Tel: +27 (0)28 424 1157 Fax: +27 (0)28 424 1428 www.pandblime.co.za mia@pandlime.co.za				
5.1 Mine				
P & B LIMEWORKS <b>(Mine Code 0505)</b> P O Box 2 7280 BREDASDORP  Tel: +27 (0)28 424 1157 Fax: +27 (0)28 424 1428  <u>Farm, District, Province</u> Langefontein BREDASDORP WESTERN CAPE	Opencast; crushing, sizing, milling	Agricultural lime Feed lime Poultry grit Aquastab™ Water Purification Whitewash Building lime Unslaked Lime Concrim™  Feed lime	Selected products are displayed below.  Agricultural lime: On Average % CCE 89,0 SiO <sub>2</sub> 7,5 Fe <sub>2</sub> O <sub>3</sub> 0,35 Sizing: -1,6mm to dust 95% -1mm  On Average % CCE 90,0 SiO <sub>2</sub> 9,0 Fe <sub>2</sub> O <sub>3</sub> 0,3	P & B LIMEWORKS P O Box 2 7280 BREDASDORP  Tel: +27 (0)28 424 1157 Fax: +27 (0)28 424 1428 www.pandblime.co.za sales@pandlime.co.za

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
			Sizing: -1,6mm to dust 93% -1,1mm	NITROPHOSKA (PTY) LTD P O Box 103 7599 STELLENBOSCH
		Poultry grit	On Average % CCE 94,0 SiO <sub>2</sub> 5,0 Fe <sub>2</sub> O <sub>3</sub> 0,3 Sizing: 2-5mm 95% -3,3mm	Tel: +27 (0)21 887 3016 Fax: +27 (0)21 887 7144
		Aquastab™	On Average % CCE 94,0 SiO <sub>2</sub> 5,0 Fe <sub>2</sub> O <sub>3</sub> 0,3 Sizing: 12-15mm	
		Water Purification Lime	On Average % CaO 74,0 SiO <sub>2</sub> 1,8 Fe <sub>2</sub> O <sub>3</sub> 0,3 Al <sub>2</sub> O <sub>3</sub> 0,2 Sizing: 95% -45µm	
			<u>Packaging</u> 25,40,50 kg paper bags 20 kg cartons Mini bulk bags Bulk	
6.	Group			
		CAPE LIME (PTY) LTD P O Box 400 8160 VREDENDAL		
		Tel: +27 (0)27 213 3090 Fax: +27 (0)27 213 3095 www.capelime.co.za info@capelime.co.za		
6.1	Mine			
		CAPE LIME - LANGVLEI <b>(Mine Code 1312)</b> P O Box 134 6705 ROBERTSON	Opencast; crushing, calcining & hydration, milling & air separation	Crushed Stone Crusher sand
		Tel: +27 (0)23 626 3190 Fax: +27 (0)23 626 1260		Sizing: 20-30mm, -19mm -13mm -9mm 6mm - dust
		<u>Farm, District, Province</u> Kruispad – Dist Langvlei 12 Noree 11 ROBERTSON WESTERN CAPE		Bulk 1 ton bulk bags
			Limewash - Ikalika - Gluex - Nulyme	CAPE LIME (PTY) LTD P O Box 400 8160 VREDENDAL  Tel: +27 (0)27 213 3090 Fax: +27 (0)27 213 3095 www.capelime.co.za info@capelime.co.za
			Agricultural Lime	Limewash products delivered in 10kg & 25kg bags
				Typical chemical

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
(CAPE LIME continued)		Building lime	values CaO 190g/kg MgO 110g/kg CCE Resin 55% CCE acid 96%	
			50kg paper bags 1 ton bulk bags Other bulk bags available on request	
6.2	Mine			
CAPE LIME – VREDENDAL LIMESTONE <b>(Mine Code 2652)</b> P O Box 400 8160 VREDENDAL	Opencast; crushing, milling, sizing & blending	Aggregate Crushed Stone (incl. base course G1-G3, sub base G5 & slurry dust)	Typical chemical values CaO 200g/kg MgO 120g/kg CCE Resin 78% CCE Acid 105%	CAPE LIME (PTY) LTD P O Box 400 8160 VREDENDAL  Tel: +27 (0)27 213 3090 Fax:+27 (0)27 213 3095 www.capelime.co.za info@capelime.co.za
Tel: +27 (0)27 213 3090 Fax:+27 (0)27 213 3090			Sizing: 75mm, -38mm, -19mm, -9mm, 2-4mm, <6mm & dust fines On Average %:	
<u>Farm, District, Province</u> Karoovlakte 299 Nuwedrift 450 Vaderlansche Rietkuil 308 VREDENDAL WESTERN CAPE			CaCO <sub>3</sub> 53,2 - 55,3 MgCO <sub>3</sub> 42,2 - 45,0 Fe <sub>2</sub> O <sub>3</sub> < 0,22 SiO <sub>2</sub> < 1,5 Moisture < 0,5	
			On Average %: CaCO <sub>3</sub> > 94 MgCO <sub>3</sub> < 4,2 Fe <sub>2</sub> O <sub>3</sub> < 0,2 SiO <sub>2</sub> < 1,5 Moisture < 0,5	
7.	Group			
CIMPOR (PTY) LTD P O Box 15245 4006 BELLAIR				
Tel: +27 (0)31 450 4411 Fax:+27 (0)31 451 9010 www.npc-eagle.co.za info@npc-eagle.co.za				
7.1	Mine			
NPC – SIMUMA <b>(Mine Code 1557)</b> P O Box 201 4240 PORT SHEPSTONE	Opencast; crushing & sizing	Limestone Dolerite	On Average % CaCO <sub>3</sub> 90 MgCO <sub>3</sub> 2,2 - 4,2	CIMPOR (PTY)LTD CEMENT CO (PTY) LTD P O Box 3123 4000 DURBAN
		Cement products: Eagle Pro	Sizing: 100% -25 mm Moisture: 6%	

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
Tel: +27 (0)39 687 8900 Fax: +27 (0)31 451 9030  <u>Farm, District, Province</u> Eedeswold 5120 Ptn 9 Simuma 11486 PORT SHEPSTONE KWAZULU NATAL		Eagle Plus Eagle Super Eagle Slagment Eagle Premium	Bulk  <u>Cement packaging</u> 50 kg bags Mini-bulk Bulk	Tel: +27 (0)31 450 4411 Fax: +27 (0)31 451 9010 www.npc.co.za www.npc-eagle.co.za info@npc-eagle.co.za
Note: ^ Division of CIMPOR / Cimentos de Portugal SGPS S.A.				
8.	Group			
	CONTINENTAL CEMENT (PTY) LTD PO BOX 1545 , HOUGHTON, 2041  Tel : +27 (0)82 600 3822 Fax : +27 (0)86 503 0545			
8.1	Company/ Mine			
	KROKODILKRAAL QUARRY <b>(Mine Code : 4517)</b> PO BOX 1545, 2041 HOUGHTON,  Tel : +27 (0)82 600 3822 Fax : +27 (0)86 503 0545  <u>Farm, District, Province</u> Krokodilkraal 545 KQ, Nooitgedacht 136 JQ	Opencast	Limestone  Typical            % Fe <sub>2</sub> O <sub>3</sub> 1.0 MnO            1.1 CaO            48.4 SiO <sub>2</sub> 3.5 Al <sub>2</sub> O <sub>3</sub> 1.0 MgO            2.6 LOI            40.7	CONTINENTAL CEMENT (PTY) LTD PO BOX 1545 , HOUGHTON, 2041  Tel : +27 (0)82 600 3822 Fax : +27 (0)86 503 0545  Products: 80mm – 10mm Lump 10mm to dust Bulk
9.	Group			
	G & W BASE & INDUSTRIAL MINERALS (PTY) LTD P O Box 14052 1422 WADEVILLE  Tel: +27(0)11 824 2710 Fax: +27(0)11 824 2721 www.gwbase.co.za			

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
9.1 Mine				
BENADEPLAATS LIME-STONE MINE <b>(Mine Code 0218)</b> P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 878 2710 Fax:+27 (0)86 682 0690  <u>Farm, District, Province</u> Benadeplaats 93 JO MARICO NORTH WEST	Opencast; crushing & sizing	Agricultural lime Putty limestone	On Average %: CaO 49 MgCO <sub>3</sub> 1,0 SiO <sub>2</sub> 8,0 Al <sub>2</sub> O <sub>3</sub> 1,0 Fe <sub>2</sub> O <sub>3</sub> 0,4 LOI 40  Sizing > 98% -125µm Moisture: 1-2% Reflectance < 70 Oil absorption: 13-15% BD 0,95-1,2 pH 9  1 ton bulk bags 40 kg bags Bulk tanker Bulk	Gauteng G & W BASE & INDUSTRIAL MINERALS (PTY) LTD Tel: +27 (0)11 824 2710 Fax:+27 (0)11 824 2721 www.gwbase.co.za  Western Cape PROTEA INDUSTRIAL CHEMICALS (PTY) LTD Tel: +27 (0)21 550 8100 Fax:+27 (0)21 550 8180  KwaZulu-Natal PROTEA INDUSTRIAL CHEMICALS (PTY) LTD Tel: +27 (0)31 468 5424 Fax:+27 (0)31 468 5429
10. Group				
H PISTORIUS & CO (PTY) LTD P O Box 1838 0001 PRETORIA  Tel: +27 (0)12 342 1075 Fax:+27 (0)12 342 1199 www.kalk.co.za				
10.1 Mine				
LEO LIMESTONE <b>(Mine Code 0257)</b> P O Box 1838 0001 PRETORIA  Tel: +27 (0)12 342 1075 Fax:+27 (0)12 342 1199  <u>Farm, District, Province</u> Calais 563 KS MOKOPANE LIMPOPO PROVINCE	Opencast; crushing, pulverizing & screening	Amorphous, fine- milled dolomitic aglime  Granules Powder	On Average % CaCO <sub>3</sub> 44,0 MgCO <sub>3</sub> 39,0 CCE 90,4  Moisture < 10% Sizing < 1000 µm  50 kg bags  Bulk	H PISTORIUS & CO (PTY) LTD P O Box 1838 0001 PRETORIA  Tel: +27 (0)12 342 1075 Fax:+27 (0)12 342 1199 www.kalk.co.za leo@aglime.co.za



## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING	
Additional operations of MICRO FINE CALCITIC		Products from all MICRO FINE CALCITIC slimes reclamation operations			
Plants					
10.2	SAPPI Co. – Springs* EAST RAND GAUTENG	-	Microfine dolomite MFD	On Average % CaCO <sub>3</sub> 52,00 MgCO <sub>3</sub> 37,00 CCE 95,92	AGRI LIME (PTY) LTD P O Box 20366 0305 PROTEA PARK
10.3	ARCELOMITTAL – Newcastle* NEWCASTLE KWAZULU-NATAL	-	Hiqua special dolomite	CaCO <sub>3</sub> 69,70 MgCO <sub>3</sub> 29,40 CCE 89,00	Tel: +27 (0)14 536 3750 Fax: +27 (0)14 536 3721 admin@agrilime.co.za
10.4	AFRISAM – Olifantsfontein* OLIFANTSFONTEIN GAUTENG	-	Hiqua dolomite	CaCO <sub>3</sub> 71,00 MgCO <sub>3</sub> 15,00 CCE 84,98	
Note: * Slimes reclamation operation(s)			Sizing: ± 95% < 106µm		
			Bulk		
			Bags		
11.	Group				
IDWALA INDUSTRIAL HOLDINGS (PTY) LTD Private Bag X93 2021 BRYANSTON					
Tel: +27 (0)11 706 8000 Fax: +27 (0)11 706 8027 www.idwala.co.za					
11.1	Company / Mine				
IDWALA CARBONATES (PTY) LTD <b>(Mine Code 0655)</b> P O Box 22 4240 PORT SHEPSTONE		Opencast; crushing, screening, flotation milling, & classification	Floated dry calcium carbonate products	Acid Insolubles < 0,5% Brightness 97/98	IDWALA SALES AND DISTRIBUTION P O Box 6056 1508 DUNSWART
Tel: +27 (0)39 687 8000 Fax: +27 (0)39 687 8027 www.idwala.co.za			Kulubrite-Extra CL Kulubrite- PFG Kulubrite- 2 Kulubrite- 5 Kulubrite- 10 Kulubrite- 15	Mean size: 0,8µm 1,7µm 2µm 5µm 10µm 15µm	Tel: +27 (0)11 914 2600 Fax: +27 (0)11 914 1293 www.idwala.co.za
<u>Farm, District, Province</u> 2 Oribi Flats 10885 (Sub 1 of) 21 Oribi Flats Le Joncquet No. 7922 The Glen No. 6500 (Sub A) PORT SHEPSTONE KWAZULU/NATAL		-	Floated calcium carbonate slurry	Acid Insolubles < 0,5% Brightness 95/96 Solid content: 75 Size: 0,8µm	IDWALA SALES AND DISTRIBUTION P O Box 785 4000 DURBAN
			Kulubrite-H 90		Tel: +27 (0)31 579 3355 Fax: +27 (0)31 579 3399
			Surface-treated floated dry CaCO <sub>3</sub>	Acid Insolubles < 0,5% Brightness 96/97	IDWALA SALES AND DISTRIBUTION

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
(IDWALA CARBONATES continued)		products	Mean size: 0,8µm 2,3µm	P O Box 36458 7702 CAPE TOWN
		Kulucote-95 T Kulucote- 2		Tel: +27 (0)21 637 8155 Fax:+27 (0)21 637 8211
		Unfloated CaCO <sub>3</sub> products	Acid Insolubles: + 5% Brightness 87/90	
		Kulu- 15 mm Kulu- 40 Kulu- 45 Kulu- 200 C	Sizing: 15µm 40µm 45 200	
		Aglime Kulu- Agran Kulu- Agsup Kulu- Agrit C Kulu- CAG Kulu- DAG	Mean size: 0,5mm 1,0mm 2,5mm 2,5mm 2,5mm	
			25kg Paper Bags Bulk bags Bulk tankers	
11.2 Company / Mine				
IDWALA LIME (PTY) LTD P O Box 89 <b>(Mine Code 0660)</b> 8405 DANIELSKUIL	Opencast; crushing, screening, flotation, fine milling, hydrating & calcining	Quicklime (Burnt lime, CaO, unslaked lime)	On Average % CaO 90 MgO 1,6 SiO <sub>2</sub> 1,3 Mn <sub>2</sub> O <sub>3</sub> 1 CaCO <sub>3</sub> 2	IDWALA SALES AND DISTRIBUTION P O Box 6056 1508 DUNSWART
Tel: +27 (0)53 384 8509 Fax:+27 (0)53 384 8509 www.idwala.co.za			Sizing: 20-50mm	Tel: +27 (0)11 914 2600 Fax:+27 (0)11 914 1293 www.idwala.co.za
<u>Farm, District, Province</u> Ouplaas 304 Ptn 6 POSTMASBURG NORTHERN CAPE		Lumps Pebbles Granules Grit Powder	6-20mm < 6mm -2,5mm -250µm	IDWALA SALES AND DISTRIBUTION P O Box 785 4000 DURBAN
		Hydrated lime (Slaked lime, CaO)	On Average % Ca(OH) <sub>2</sub> 92 MgO 1,4 SiO <sub>2</sub> 1,1 Mn <sub>2</sub> O <sub>3</sub> 0,8 CaCO <sub>3</sub> 1,5	Tel: +27 (0)31 579 3355 Fax:+27 (0)31 579 3399
		- Fine Powder	Sizing: 7µm	IDWALA SALES AND DISTRIBUTION P O Box 36458 7702 CAPE TOWN
		Limestone (agricultural lime, calcite, calcium carbonate)	On Average % CaCO <sub>3</sub> 96 MgCO <sub>3</sub> 1,5 SiO <sub>2</sub> 0,7 MnO <sub>2</sub> 0,6	Tel: +27 (0)21 637 8155 Fax:+27 (0)21 637 8211
		Cobbles	Sizing: 20 - 50mm	

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
		Pebbles Granules Sinter	8 - 20mm 4 - 8mm -4mm	
		3mm Grain	2,8 - 4,2mm	
		2mm Grit Fines	1 - 2,8mm -150µm	
			Moisture < 1%	
			Powders: 25kg paper bags 50 kg paper bags 1 ton bulk bags	
11.3	Plant			
	LIME DISTRIBUTORS (PTY) LTD P O Box 2043 2125 RANDBURG	Hydrating & fine milling operation	Lump Unslaked Lime	IDWALA SALES AND DISTRIBUTION P O Box 6056 1508 DUNSWART
	Tel: +27 (0)11 706 0000 Fax: +27 (0)11 706 0044 www.idwala.co.za		Powdered Unslaked Lime	Tel: +27 (0)11 914 2600 Fax: +27 (0)11 914 1293 www.idwala.co.za
			Bulk 50 kg bags Mini Bulk Bags	IDWALA SALES AND DISTRIBUTION P O Box 785 4000 DURBAN
		Hydrated Lime Air separated	Sizing: 100% -250µm	Tel: +27 (0)31 579 3355 Fax: +27 (0)31 579 3399
			Mini Bulk Bags 25kg bags Bulk	IDWALA SALES AND DISTRIBUTION P O Box 36458 7702 CAPE TOWN
				Tel: +27 (0)21 637 8155 Fax: +27 (0)21 637 8211
12.	Company / Mine			
	INCA MINING (PTY) LTD <b>(Mine Code 0320)</b> P O Box 1511 0600 MOKOPANE	Opencast; sizing & crushing	Limestone	INCA MINING (PTY) LTD P O Box 1511 0600 MOKOPANE
	Tel: +27 (0)15 667 0536 Fax: +27 (0)15 667 0539 incamining@mweb.co.za		On Average % CaCO <sub>3</sub> 90 MgCO <sub>3</sub> 4 SiO <sub>2</sub> 3 Al <sub>2</sub> O <sub>3</sub> 0,5 Fe <sub>2</sub> O <sub>3</sub> 0,5 MnO < 0,02 LOI 44	Tel: +27 (0)15 667 0536 Fax: +27 (0)15 667 0539 incamining@mweb.co.za
			BD: 1600-1900 kg/m <sup>3</sup> Sizing: -1mm 1-3mm	

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
			6-19mm	
<u>Farm, District, Province</u> Malgas 154 – Calais Singapore 585 KS MOKOPANE LIMPOPO PROVINCE			Other size grading on clients request	
			1 ton bulk bags 50 kg polyprop. bags Bulk	
		Dolomitic aglime	On Average % CaCO <sub>3</sub> 22 MgCO <sub>3</sub> 19 SiO <sub>2</sub> 9 Fe <sub>2</sub> O <sub>3</sub> 0,8 MnO (ppm) 80 LOI 42 Sizing: -1,7mm Bulk	
13	Group			
	INFRASORS HOLDINGS Private Bag X9615 0450 MARBLE HALL			
	Tel: +27 (0)13 261 1128/ 9 Fax: +27 (0)13 261 1140			
13.1	Mine			
	MARBLE HALL MINE <b>(Mine Code 0458)</b> Private Bag X9615 0450 MARBLE HALL	Opencast; crushing, milling & sizing	Dolomite - Metallurgical - Milled Powders - Aggregate	INFRASORS HOLDINGS Private Bag X9615 0450 MARBLE HALL
	Tel: +27 (0)13 261 1128/ 9 Fax: +27 (0)13 261 1140		Product specs for dolomite same as for Lyttelton Dolomite	Tel: +27 (0)13 261 1128/ 9 Fax: +27 (0)13 261 1140
	<u>Farm, District, Province</u> Loskop Noord 12 JS GROBLERSDAL MPUMALANGA		On Average % CaO 86,80 MgO 6,60 SiO <sub>2</sub> 3,83 Fe <sub>2</sub> O <sub>3</sub> 0,83 Mn <sub>2</sub> O <sub>3</sub> 0,20 Na <sub>2</sub> O 0,23	
			Calcitic products - Powders - Aggregate	
			Calcitic Aggregate	
			Sizing: -4mm -13mm -19mm P75 SSD powder Animal feed	
		Carbonate powder	Sizing: 100% -200µm Mean size: 30µm	
			Bulk 25 kg bags	

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
14. Group				
JPB BELEGGINGS (PTY) LTD P O Box 269 7599 STELLENBOSCH				
Tel: +27 (0)21 887 3016 Fax: +27 (0)21 886 5534				
14.1 Mine				
AGLIME LIME STONE QUARRY <b>(Mine Code 0289)</b> P O Box 269 7599 STELLENBOSCH	Opencast; Crushing & sizing	Agricultural limestone (Aglime)	On Average % CaCO <sub>3</sub> 80,0 Moisture: 3%	NITROPHOSKA (PTY)LTD P.O Box 103 7599 STELLENBOSCH
<u>Farm, District, Province</u> Schoongelegen Ptn 2 Klein Soutpan (Rietgrove) RIVERSDALE WESTERN CAPE			Sizing: 100% 1,7mm 50% ≤ 250 µm	Tel: +27 (0)21 887 3016 Fax: +27 (0)21 886 5534
			50 kg bags Bulk	
14.2 Mine				
MARINE LIME (PTY) LTD <b>(Mine Code 0402)</b> P O Box 269 7599 STELLENBOSCH	Opencast	Limestone Aglime - Feed lime	On Average % CaCO <sub>3</sub> 89 MgCO <sub>3</sub> 1 SiO <sub>2</sub> 4,5	NITROPHOSKA (PTY)LTD P.O Box 103 7599 STELLENBOSCH
Tel: +27 (0)21 887 3016 Fax: +27 (0)21 886 5534			Moisture: 5%	Tel: +27 (0)21 887 3016 Fax: +27 (0)21 886 5534
<u>Farm, District, Province</u> Kliprug 282 Ptn 3 Middelpos VREDENBURG WESTERN CAPE			Sizing: 0,53 - 0,84 mm	
			50 kg bags Bulk	
15 Company/Mine				
KALSEE <b>(Mine Code: 3671)</b> PO BOX 808, 6330 JEFFREYS BAY	Opencast	Limestone		
Tel : +27 (0)42 293 3195 Fax : +27 (0)42 293 3194				
<u>Farm, District, Province</u> Remainder of Seekoei River, HUMANSDORP EASTERN CAPE				

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING	
16	Group				
LAFARGE SOUTH AFRICA (PTY) LTD Private Bag X26 2052 GALLO MANOR					
Tel: +27 (0)11 257 3100 Fax: +27 (0)11 257 3052 www.lafarge.co.za					
16.1	Mine				
LAFARGE SA – LICHTENBURG <b>(Mine Code 0052)</b> P O Box 188 2740 LICHTENBURG		Opencast; crushing, screening, milling, hydrating & calcining	Limestone for cement manufacture  Cement products: Buildcrete 32,5 Duracast 52,5 Duratech 42,5 Powercrete 42,5	On Average % CaCO <sub>3</sub> 85,0 MgCO <sub>3</sub> 2,5  Moisture: 2,5% Sizing: 100% -32 mm  Bulk  <u>Cement packaging:</u> Bulk tankers 50kg bags Bulk	LAFARGE SOUTH AFRICA (PTY) LTD Private Bag X26 2052 GALLO MANOR  Tel: +27 (0)11 257 3100 Fax: +27 (0)11 257 3106 www.lafarge.co.za  Cement Purchases: [Readymix & Cement] Tel: +27 (0)11 257 3080 careline@lafarge.co.za
Tel: +27 (0)18 633 3053 Fax: +27 (0)18 633 3118					
<u>Farm, District, Province</u> Lichtenburg Town & Lovedale; Townslands 27 IP LICHTENBURG NORTH WEST					
16.2	Mine				
LAFARGE SA – TSWANA LIME LTD <b>(Mine Code 3910)</b> P O Box 188 2740 LICHTENBURG		crushing, screening, milling, hydra- ting & calcining	Limestone for cement manufacture  Cement products: Buildcrete 32,5 Duracast 52,5 Duratech 42,5 Powercrete 42,5	On Average % CaCO <sub>3</sub> 85,0 MgCO <sub>3</sub> 2,5  Moisture: 2,5 % Sizing: 100% -32 mm  Bulk  <u>Cement packaging:</u> Bulk tankers 50kg bags Bulk	LAFARGE SOUTH AFRICA (PTY) LTD Private Bag X26 2052 GALLO MANOR  Tel: +27 (0)11 257 3100 Fax: +27 (0)11 257 3106 www.lafarge.co.za  Cement Purchases: [Readymix & Cement] Tel: +27 (0)11 257 3080 careline@lafarge.co.za
Tel: +27 (0)18 633 3032 Fax: +27 (0)86 587 5825					
<u>Farm, District, Province</u> Driefontein 46 IO Polfontein 47 IO Rietschraal 58 IO Springbokpan 58 JR Springbokpan 61 IO DITSOBOTLA NORTH WEST					
17	Group				
LATILLA MINERAL MARKETING (PTY) LTD P O Box 801 2008 BEFORDVIEW					
Tel: +27 (0)11 615 7684 Fax: +27 (0)11 615 8294 latillagroup@mweb.co.za					

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
17.1 Mine  KRAALHOEK LIMESTONE <b>MINE (Mine Code 3031)</b> P O Box 801 2008 BEDFORDVIEW  Tel: +27 (0)11 615 7684 Fax: +27 (0)11 615 8285  <u>Farm, District, Province</u> Kraalhoek 399 KQ MANKWE NORTH WEST	Opencast; crushing, milling & sizing	Calclitic limestone  Main applications: Industrial fillers, water purification, feed lime and fluxes  Lumps, Grit, Powder	On Average % CaCO <sub>3</sub> 92 MgCO <sub>3</sub> 2 Moisture: 2%  Sizing: Milled to clients specifications (1µm- 500mm)  <u>Packaging</u> 20kg bags 50kg bags 500kg bulk gags 1 ton bulk bags Bulk	LATILLA MINERAL MARKETING (PTY) LTD P O Box 801 2008 BEFORDVIEW  Tel: +27 (0)11 615 7684 Fax: +27 (0)11 615 8294 latillagroup@mweb.co.za
18. Group  LIME-CHEM (PTY) LTD P O Box 460 0062 IRENE  Tel: +27 (0)12 667 1919 Fax: +27 (0)12 667 1828 www.lime-chem.co.za limechem@icon.co.za				
18.1 Mine  LIME-CHEM (MPHOFU) <b>(Mine Code 2472)</b> P O Box 460 0062 IRENE  Tel: +27 (0)12 667 1919 Fax: +27 (0)12 667 1828	Opencast	Dolomite  Limestone	On Average % CaCO <sub>3</sub> 76 - 86 MgCO <sub>3</sub> 10 - 20  Moisture: 2%  Sizing: As per client's request  Bulk	LIME-CHEM (PTY) LTD P O Box 460 0062 IRENE  Tel: +27 (0)12 667 1919 Fax: +27 (0)12 667 1828 www.lime-chem.co.za limechem@icon.co.za
18.2 Mine  SCHERP ARABIE <b>(Mine Code 2272)</b> P O Box 460 0062 IRENE  Tel: +27 (0)12 667 1919 Fax: +27 (0)12 667 1828  <u>Farm, District, Province</u> Elandsdrif 8 JS Scherp Arabie 743 KS GROBLERSDAL MPUMALANGA	Opencast	Limestone	On Average % CaCO <sub>3</sub> 31,4 MgCO <sub>3</sub> 44,0 SiO <sub>2</sub> 0,6 Fe <sub>2</sub> O <sub>3</sub> 0,6 Moisture < 5%  Sizing: -40mm -32mm -25mm -20mm -15mm -10mm	LIME-CHEM (PTY) LTD P O Box 460 0062 IRENE  Tel: +27 (0)12 667 1919 Fax: +27 (0)12 667 1828 www.lime-chem.co.za limechem@icon.co.za

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
			-1,7mm 10-40mm Bulk	
19. Group				
LIME SALES LTD P O Box 160 7435 MILNERTON				
Tel: +27 (0)21 552 3090 Fax: +27 (0)21 551 3761 opencast@xsinet.co.za				
19.1 Mine				
BRIDGETOWN QUARRY <b>(Mine Code 2676)</b> P O Box 160 7435 MILNERTON	Opencast; Crushing, washing, screening & milling	Dolomite  Main applications: Metallurgical, agricultural & aggregate industry	On Average % CaCO <sub>3</sub> 31,4 MgCO <sub>3</sub> 44,0 SiO <sub>2</sub> 0,6 Fe <sub>2</sub> O <sub>3</sub> 0,6 Moisture < 5%	LIME SALES LTD P O Box 160 7435 MILNERTON
Tel: +27 (0)21 552 3090 Fax: +27 (0)21 551 3761			Sizing: -40mm -32mm -25mm -20mm -15mm -10mm -1,7mm 10-40mm	Tel: +27 (0)21 552 3090 Fax: +27 (0)21 551 3761 opencast@xsinet.co.za
<u>Farm, District, Province</u> Vledermuisdrift 398 MALMESBURY WESTERN CAPE			Bulk	
20. Group				
LYTTELTON DOLOMITE (PTY) LTD P O Box 14014 0140 LYTTELTON				
Tel: +27 (0)12 664 5649 Fax: +27 (0)12 664 5357				
20.1 Mine				
LYTTELTON DOLOMITE <b>MINE (Mine Code 0378)</b> P O Box 14014 0140 LYTTELTON	Opencast; crushing, milling & sizing	Dolomite - Metallurgical - Milled Powders - Aggregate	On Average % CaO 29,84 MgO 20,35 CO <sub>2</sub> 45,60 SiO <sub>2</sub> 2,5 Fe <sub>2</sub> O <sub>3</sub> 0,90 Mn <sub>2</sub> O <sub>3</sub> 1,89	LYTTELTON DOLOMITE (PTY) LTD P O Box 14014 0140 LYTTELTON
Tel: +27 (0)12 664 5649 Fax: +27 (0)12 664 5357			Sizing: -53mm -19mm -13mm -9,5mm	Tel: +27 (0)12 664 5649 Fax: +27 (0)12 664 5357
<u>Farm, District, Province</u> Drooggegrond 380 JR Ptn 6 Doornkloof 391 JR Ptn 18 PRETORIA GAUTENG		Limestone,		



## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
		agricultural and feed lime	-4mm N/A N/A  100% -200µm Mean size: 30µm  Bulk 25 kg bags	
21. Company/Plant				
MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax:+27 (0)11 486 1928 www.micronized.com info@micronized.com	Milling & micronizing	Microdol	On Average % CaCO <sub>3</sub> 52 MgCO <sub>3</sub> 42 Fe <sub>2</sub> O <sub>3</sub> 0,4  Sizing: 100% -25 µm BD (Tapped) 950g/ml 25kg paper bags	MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax:+27 (0)11 486 1928 www.micronized.com info@micronized.com
22. Group				
NATIONAL PORTLAND CEMENT P O Box 160 7435 MILNERTON				
22.1 Mine				
TABAKBAAI QUARRY <b>(Mine Code 0622)</b> P O Box 160 7435 MILNERTON  Tel: +27 (0)21 552 3090 Fax:+27 (0)21 551 3761  <u>Farm, District, Province</u> Kliprug 282 Yzterfontein VREDENBURG WESTERN CAPE	Opencast; Crushing & milling	Agricultural limestone (Aglime)	On Average % CaCO <sub>3</sub> 75 - 90 MgCO <sub>3</sub> < 1 Moisture < 5%  Sizing: -1,7mm  Bulk	LIME SALES LTD P O Box 160 7435 MILNERTON  Tel: +27 (0)21 552 3090 Fax:+27 (0)21 551 3761 opencast@xsinet.co.za
23. Group				
NITROPHOSKA (PTY)LTD P.O Box 103 7599 STELLENBOSCH  Tel: +27 (0)21 887 3016 Fax:+27 (0)21 886 5534				

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
23.1 Company/Mine  KARSRIVIER MINE <b>(Mine Code 3228)</b> P O Box 175 6670 RIVERSDAL  Tel: +27 (0)28 713 1508 Fax: +27 (0)28 713 2184  <u>Farm, District, Province</u> Karsrivier BREDASDORP WESTERN CAPE	Opencast: Crushing, screening, milling	Agricultural limestone (Aglime)	On Average % CaCO <sub>3</sub> 80,0 MgCO <sub>3</sub> 1,5 Moisture: 2%  Sizing: 100% ≤ 1,0mm 70% ≤ 250 µm  50 kg bags Bulk	NITROPHOSKA (PTY)LTD P.O Box 103 7599 STELLENBOSCH  Tel: +27 (0)21 887 3016 Fax:+27 (0)21 886 5534
24. Group  OOS-TVL KALK- VERSKAFFERS (PTY) LTD P O Box 948 2740 LICHTENBURG  Tel: +27 (0)18 632 6046 Fax:+27 (0)18 632 3772 graslandondernemings1 @intekom.co.za				
24.1 Mine  BRITTENMYN <b>(Mine Code 4069)</b> P O Box 948 2740 LICHTENBURG  Tel: +27 (0)18 632 6046 Fax:+27 (0)18 632 3772  <u>Farm, District, Province</u> Kareepan 298 Hq, 300 Hq Kareepan 301 Hq CHRISTIANA NORTH WEST	Opencast; crushing & sizing	Dolomitic and calcitic aglime	On Average % CaCO <sub>3</sub> 52 MgCO <sub>3</sub> 18 Moisture: 5 -10 %  Sizing: 95% -1,7 mm 60% -250 µm  Bulk	GRASLAND ONDER- NEMINGS (PTY) LTD P O Box 948 2740 LICHTENBURG  Tel: +27 (0)18 632 6046 Fax:+27 (0)18 632 3772 graslandondernemings1 @intekom.co.za
24.2 Mine  BUHRMANNSDRIFMYN <b>(Mine Code 2563)</b> P O Box 948 2740 LICHTENBURG  Tel: +27 (0)18 632 6046 Fax:+27 (0)18 632 3772  <u>Farm, District, Province</u> Benadeplaats 93 JO Wageandrift 100 JO GROOT MARICO NORTH-WEST	Opencast; crushing & sizing	Calcitic aglime	On Average % CaCO <sub>3</sub> 85 MgCO <sub>3</sub> 1  Moisture: 5 -10 %  Sizing: 95% -1,7 mm 80% -250µm  Bulk	GRASLAND ONDER- NEMINGS (PTY) LTD  Tel: +27 (0)18 632 6046 Fax:+27 (0)18 632 3772 graslandondernemings1 @intekom.co.za

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
24.3 Mine				
LOVEDALE QUARRY <b>(Mine Code 3404)</b> P O Box 948 2740 LICHTENBURG  Tel: +27 (0)18 632 6046 Fax:+27 (0)18 632 3772  <u>Farm, District, Province</u> Elandsfontein 34, Ptn 38 LICHTENBURG MPUMALANGA	Opencast; crushing & sizing	Dolomitic aglime	On Average % CaCO <sub>3</sub> 50 MgCO <sub>3</sub> 30  Moisture: 5 - 10%  Sizing: 95% -1,7 mm 60% -250µm  Bulk	GRASLAND ONDER- NEMINGS (PTY) LTD  Tel: +27 (0)18 632 6046 Fax:+27 (0)18 632 3772 @intekom.co.za
25.1 Mine				
MARICO QUARRY <b>(Mine Code 1235)</b> P O Box 948 2740 LICHTENBURG  Tel: +27 (0)18 632 6046 Fax:+27 (0)18 632 3772  <u>Farm, District, Province</u> Rhenosterfontein 304 JP MARICO NORTH WEST	Opencast; crushing & sizing	Dolomitic aglime	On Average % CaCO <sub>3</sub> 48 MgCO <sub>3</sub> 22  Moisture:10 -15%  Sizing: 95% -250µm  Bulk	GRASLAND ONDER- NEMINGS (PTY) LTD  Tel: +27 (0)18 632 6046 Fax:+27 (0)18 632 3772 @intekom.co.za
26 Group				
PLAASLIKE BOEREDIENSTE (PTY) LTD P O Box 385 2620 ORKNEY  Tel: +27 (0)18 473 0830 Fax:+27 (0)18 473 2509 vaalbrug@iafrica.com				
26.1 Mine				
VAALBRUG DOLOMIETMYN <b>(Mine Code 1817)</b> P O Box 385 2620 ORKNEY  Tel: +27 (0)18 473 0830 Fax:+27 (0)18 473 2509  <u>Farm, District, Province</u> Vaalbrug Dolomiet 577 VILJOENSKROON FREE STATE	Opencast; crushing & milling	Dolomitic agricul- tural limestone	On Average % CaCO <sub>3</sub> 50 MgCO <sub>3</sub> 40  Moisture: 1% Sizing: 100% -1,7mm  Bulk	PLAASLIKE BOEREDIENSTE P O Box 385 2620 ORKNEY  Tel: +27 (0)18 473 0830 Fax:+27 (0)18 473 2509 vaalbrug@iafrica.com

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
27	Group			
PRETORIA PORTLAND CEMENT CO LTD P O Box 787416 2146 SANDTON  Tel: +27 (0)11 386 9000 Fax: +27 (0)11 386 9001 www.ppc.co.za www.ppclime.co.za www.ppcement.co.za				
27.1	Mine			
PPC – BEESTEKRAAL QUARRY ( <b>Mine Code 0512</b> ) Private Bag X5044 0250 BRITS  Tel: +27 (0)12 277 1211/ 51 Fax: +27 (0)12 277 1908  <u>Farm, District, Province</u> Border 187 JQ Kalklaagte 213 JQ Rooinek 190 JQ Vogelfontein 191 JQ BRITS NORTH WEST				
	Opencast; crushing & sizing	Limestone	On Average % CaCO <sub>3</sub> 82 MgCO <sub>3</sub> 7,0  Moisture: 1% Sizing: -30 mm  Bulk	
27.2	Mine			
PPC – DE HOEK WORKS (ZOUTKLOOF SECTION) ( <b>Mine Code 0092</b> ) P O Box 10311 7321 DE HOEK  Tel: +27 (0)22 913 1100 Fax: +27 (0)22 913 1859  <u>Farm, District, Province</u> Langefontein Rietfontein 184 PIKETBERG WESTERN CAPE				
	Opencast; crushing & sizing	Limestone for cement manufacture  Cement products: PPC Surebuild PPC Surecrete PPC Suremix PPC RAPO  PPC OPC Botcem Unicem	On Average % CaCO <sub>3</sub> 84 MgCO <sub>3</sub> < 1,27  Moisture: 0,5% Sizing: 95% -25 mm Bulk  <u>Cement packaging:</u> 50 kg paper bags 50 kg polyprop bags Bulk tankers & Silos Mini Bulk Bulk	PPC – REGIONAL SALES  Cape Town: Tel: +27 (0)21 550 2100 Nelspruit: Tel: +27 (0)13 741 4140  Pietermaritzburg: Tel: +27 (0)33 386 6171 Polokwane: Tel: +27 (0)15 297 2503  Rustenburg: Tel: +27 (0)14 597 0100 Port Elizabeth: Tel: +27 (0)41 486 2272  Technical Info: Tel: +27 (0)800 023 470 www.ppcement.co.za

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
27.3 Mine  PPC – DWAALBOOM <b>(Mine Code 1694)</b> P O Box 75 0319 DWAALBOOM  Tel: +27 (0)14 778 9100 Fax:+27 (0)14 778 0753  <u>Farm, District, Province</u> Amsterdam 277 KP Bethanie 218 KP Gansvley 240 KP Jakhalskraal 239 KP Parys 226 KP Schoongezicht 238 KP Tussenkomst 241 KP THABAZIMBI LIMPOPO PROVINCE	Opencast; crushing, screening, milling, hydrating & calcining	Limestone for cement manufacture  Cement products: PPC Surebuild PPC Surecrete PPC Suremix PPC RAPO PPC OPC Botcem Unicem	On Average % CaCO <sub>3</sub> 84 MgCO <sub>3</sub> < 5,0  Moisture: < 2,0% Sizing: 100% -25 mm  Bulk  <u>Cement packaging:</u> 50 kg paper bags 50 kg polyprop bags Bulk tankers & Silos Mini Bulk Bulk	PPC – REGIONAL SALES (See DE HOEK WORKS – MARKETING above)  Technical Info: Tel: +27 (0)800 023 470 www.ppcement.co.za www.ppc.co.za
27.4 Mine  PPC - GRASSRIDGE QUARRY <b>(Mine Code 3407)</b> P O Box 2016 6056 NORTH END  Tel: +27 (0)41 461 8001/ 2 Fax:+27 (0)41 461 8000  <u>Farm, District, Province</u> Grassridge 224 JQ UITENHAGE EASTERN CAPE	Opencast; crushing, screening, milling, hydrating & calcining	Limestone for cement manufacture	On Average % CaCO <sub>3</sub> 84,7 MgCO <sub>3</sub> 1,6 MnCO <sub>3</sub> < 0,1  Moisture: 2,5% Sizing: -35 mm  Bulk	Limestone sold exclusively To PPC CEMENT CO.
27.5 Mine  PPC – LIME ACRES <b>(Mine Code 0636)</b> Private Bag 8410 LIME ACRES  Tel: +27 (0)53 385 8200 Fax:+27 (0)53 385 0788  <u>Farm, District, Province</u> Adams, Bowden, Carter Block 458, Kolbe, Shone, Smuts POSTMASBURG NORTHERN CAPE	Opencast; crushing, sizing, burning, hydrating & milling	Graded limestone Crushed limestone Unslaked lime - Lumpy - Ground - Fine Basebond Hydrabond Rotalym Limebuild	Selected products are displayed below:  Graded limestone: On Average % CaO 96,0 MgO 2,2 SiO <sub>2</sub> 0,8 Mn <sub>2</sub> O <sub>3</sub> 0,7 Fe <sub>2</sub> O <sub>3</sub> 0,2 LOI 43,6  BD: 1 390 -1 460 kg/m <sup>3</sup>  Sizing: 6-10mm 10-20mm 20-30mm 30-50mm 55-100mm	PPC LIME P O Box 787416 2146 SANDTON  Tel: +27 (0)11 386 9000 Fax:+27 (0)11 386 9001 www.ppclime.co.za www.ppc.co.za  PPC LIME – SALDANHA Tel: +27 (0)22 715 4137 Fax:+27 (0)22 715 4122

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
(PPC – LIME ACRES continued)		Unslaked Lime [Lumpy]	On Average % CaO* 94,0 MgO** 2,0 SiO <sub>2</sub> 1,5 Mn <sub>2</sub> O <sub>3</sub> 1,0 Fe <sub>2</sub> O <sub>3</sub> 0,5  BD: 1 100-1 200 kg/m <sup>3</sup> Sizing: -50mm 6 - 19mm 6 - 50mm 19 - 50mm	
		Quicklime / Unslaked lime [Ground] [Fine]	On Average % CaO* 92,0 MgO** 2,0 SiO <sub>2</sub> 2,0 Mn <sub>2</sub> O <sub>3</sub> 1,2 Fe <sub>2</sub> O <sub>3</sub> 0,5  <u>Ground:</u> BD^ 1 000-1 100kg/m <sup>3</sup> Sizing: 95% -2,35mm 100% 4,75mm  <u>Fine:</u> BD^ 800-900 Sizing: 98,0% -150µm 65,0% -75µm	
		Limebuild	On Average % CaO* 72,0 MgO** 1,2 SiO <sub>2</sub> 0,8 Mn <sub>2</sub> O <sub>3</sub> 1,0 Fe <sub>2</sub> O <sub>3</sub> 0,5  BD^ 450 kg/m <sup>3</sup> Sizing: 85% -75µm	
		Burned Dolomite	On Average % CaO* 58,0 MgO** 35,8 SiO <sub>2</sub> 2,5 Mn <sub>2</sub> O <sub>3</sub> 1,5 Fe <sub>2</sub> O <sub>3</sub> 1,8  BD^ 1100kg/m <sup>3</sup> Sizing: -50mm 6 - 50mm  All product packaging available on request  Note: * Total Ca	

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
			** Total Mg ^ Aerated	
		Metallurgical dolomite	On Average % CaCO <sub>3</sub> 53 MgCO <sub>3</sub> 43 Moisture: 5%  Sizing: -50 +5 mm -10 + 5 mm -5 + 2 mm -2 mm	
27.6 Mine				
PPC – MOOIPLAAS DOLOMITE (PTY) LTD <b>(Mine Code 421)</b> P O Box 34414 0023 ERASMIA	Opencast; crushing, washing, sizing and milling	Aggregate	On Average% CaCO <sub>3</sub> 53 MgCO <sub>3</sub> 43 Moisture: 5%  Size: SABS compliant	PPC – MOOIPLAAS DOLOMITE (PTY) LTD P O Box 34414 0023 ERASMIA  Tel: +27 (0)12 318 3000 Fax: +27 (0)12 318 3040
		Agricultural lime	On Average % CaCO <sub>3</sub> 50 MgCO <sub>3</sub> 40 Moisture < 15% Sizing: 95% < 250 µm	Tel: +27 (0)12 318 3000 Fax: +27 (0)12 318 3040
		Metallurgical dolomite powder	On Average % CaCO <sub>3</sub> 53 MgCO <sub>3</sub> 44 Moisture: Nil Sizing: 90% < 212 µm	
			All products are sold in bulk form	
27.7 Mine				
PPC – RIEBEECK QUARRY <b>(Mine Code 0091)</b> P O Box 45 7306 RIEBEECK-WES	Opencast; crushing, screening, milling, hydra- ting & calcining	Limestone for cement manufacture  Cement products: PPC Surebuild PPC Surecrete PPC Suremix PPC RAPO PPC OPC Botcem Unicem	On Average % CaCO <sub>3</sub> 85 MgCO <sub>3</sub> 0,7- 0,8 Moisture: 0,5% Sizing: 95% -25mm  Bulk  <b>Cement packaging:</b> 50 kg paper bags 50 kg polyprop bags	PPC – REGIONAL SALES  Cape Town: Tel: +27 (0)21 550 2100 Nelspruit: Tel: +27 (0)13 741 4140 Pietermaritzburg: Tel: +27 (0)33 386 6171 Polokwane: Tel: +27 (0)15 297 2503 Rustenburg: Tel: +27 (0)14 597 0100 Port Elizabeth: Tel: +27 (0)41 486 2272  Technical Info: Tel: +27 (0)800 023 470 www.ppcement.co.za
			Bulk tankers & Silos Mini Bulk Bulk	

## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
27.8 Mine				
PPC – SLURRY <b>(Mine Code 515)</b> P O Box 7 2895 SLURRY  Tel: +27 (0)18 644 8100 Fax: +27 (0)18 644 0218	Opencast; crushing, screening, milling, hydra- ting & calcining	Limestone for cement manufacture  Cement products: PPC Surebuild PPC Surecrete PPC Suremix PPC RAPO PPC OPC	On Average % CaCO <sub>3</sub> 78 MgCO <sub>3</sub> 4,5  Sizing: -25mm Moisture: 3%  Bulk	PPC – REGIONAL SALES (See RIEBEECK QUARRY- MARKETING above)  Technical Info: Tel: +27 (0)800 023 470 www.ppcement.co.za www.ppc.co.za
<u>Farm, District, Province</u> Klipplaat 108 JO, Slurry 96 JO Olievendraai 107 JO Rietvallei 102 JO GROOT MARICO NORTH WEST		Botcem Unicem	<u>Cement packaging:</u>  50 kg paper bags 50 kg polyprop bags Bulk tankers & Silos Mini Bulk Bulk	
28. Group				
SYFERFONTEIN DOLOMITE (PTY) LTD PO BOX 30 IRENE, 0062  Tel: +27 (0)12 345 4539 Fax: +27 (0)12 345 4058				
28.1 Mine/Company				
SYFERFONTEIN DOLOMITE (PTY) LTD <b>(Mine code: 3793)</b> PO BOX 30 IRENE, 0062  Tel: +27 (0)12 345 4539 Fax: +27 (0)12 345 4058	Opencast; crushing, sizing & milling	Calcitic Limestone  Syfer 45K Syfer 100K Syfer 250K Syfer 600K Syfer 850K SyfergritK -1mm SyfergritK 1-3mm  Dolomite - White filler	On Average % CaO 49 SiO <sub>2</sub> 4,5 MgO 3 Fe <sub>2</sub> O <sub>3</sub> 0,85 LOI 41  Sizing: 99% -45µm 99% -106µm 99% -250µm 99% -600µm 99% -850µm 100% -1mm 1-3mm  On Average % CaCO <sub>3</sub> 52 MgCO <sub>3</sub> 44 SiO <sub>2</sub> 0,1 LOI 46 Acid insolubles < 1	SYFERFONTEIN CALCITE (PTY) LTD  P O Box 30 0062 IRENE  Tel: +27 (0)12 345 4539 Fax: +27 (0)12 345 4058 engelavl@syferfontein.co.za
<u>Farm, District, Province</u> Erasmus 529 MS PTN 11 Soutpansberg, Limpopo				



## LIMESTONE AND DOLOMITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING	
		Syfer 45D Syfer 100D Syfer 250D Syfer 600/850D	Sizing: 99% -45µm 99% -106µm 99% -250µm 600-850µm*		
		SyferD SyferD - 1,7mm SyferD - 4.8mm SyferD - 6.4mm	100% -1mm 100% -1,7mm 3,0 - 4,8mm* 4,8 - 6,4mm*		
		SyferD - 13mm SyferD - 19mm SyferD - 20/60mm	6,4 -13mm* 13 - 19mm* 20 - 60mm*		
			Note: * Bottom-cut & top-cut respectively All products sold in: 1 ton bulk bags 40 kg bags , Bulk		
29.	Company / Mine				
	WITSAND KALKWERKE / MOODIE BROERS (PTY) LTD P O Box 91 6666 WITSAND	Opencast	Limestone sand	On Average % CaCO <sub>3</sub> 64,6 - 74,0 MgCO <sub>3</sub> 2,95  Bulk	WITSAND KALKWERKE / MOODIE BROERS (PTY) LTD P O Box 91 6666 WITSAND
	Tel: +27 (0)28 537 1279 Fax: +27 (0)28 537 1279			Tel: +27 (0)28 537 1911 Fax: +27 (0)28 537 1552	
	<u>Farm, District, Province</u> Westfield 483 A HEIDELBERG WESTERN CAPE				

**MAGNESITE**

<b>PRODUCER</b>	<b>TYPE OF OPERATION</b>	<b>PRODUCT</b>	<b>ANALYSIS/SPECIFICATIONS</b>	<b>MARKETING</b>
1. Company				
CHAMOTTE HOLDINGS (PTY) LTD P O Box 1064 1685 HALFWAY HOUSE				
Tel: +27 (0)11 805 1916/ 7 Fax: +27 (0)11 805 4164 chamotte@chamotte.co.za				
1.1 Mine				
STRATHMORE MAGNESITE MINE <b>(Mine Code 0799)</b> P O Box 243 1320 MALELANE	Opencast; Magnetic separation & Heavy media separation	Magnesite MR 32  Applications: Slag conditioning, road construction	On Average % SiO <sub>2</sub> 40,0 MgO 34,0 Fe <sub>2</sub> O <sub>3</sub> 7,0 CaO 0,9 Al <sub>2</sub> O <sub>3</sub> 0,3 LOI 18,0  Sizing: 6 - 35mm Moisture < 10% BD 1,55g/cm <sup>3</sup> Bulk (by rail)	CHAMOTTE HOLDINGS (PTY) LTD P O Box 1064 1685 HALFWAY HOUSE  Tel: +27 (0)11 805 1916/ 7 Fax: +27 (0)11 805 4164 chamotte@chamotte.co.za
Tel: +27 (0)13 791 0000 Fax: +27 (0)13 791 0011				
<u>Farm, District, Province</u> Strathmore 214 JU BARBERTON MPUMALANGA				
		Magnesite S15	On Average % SiO <sub>2</sub> 15,0 MgO 40 Fe <sub>2</sub> O <sub>3</sub> 1,0 CaO 0,8 Al <sub>2</sub> O <sub>3</sub> 0,3 LOI 40,0  Sizing: 6 - 35mm Moisture < 10% BD 1,55g/cm <sup>3</sup> Bulk (by rail)	
		Magnesite S4	On Average % SiO <sub>2</sub> 4,4 MgO 45,0 Fe <sub>2</sub> O <sub>3</sub> 0,7 CaO 0,7 Al <sub>2</sub> O <sub>3</sub> 0,1 LOI 47,8  Sizing: 6 - 35mm Moisture < 10% BD 1,55g/cm <sup>3</sup> Bulk (by rail)	

**MAGNESITE**

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
(STRATHMORE MAGNESITE MINE continued)		Magnesium sulphate heptahydrate [Epsom salts]	On Average % MgSO <sub>4</sub> 49,0 H <sub>2</sub> O 51,0 Cl <300ppm Fe < 100ppm As < 10ppm LOI ± 51  Sizing: <3mm pH: ±0,5 BD ±1,0 g/cm <sup>3</sup>	
		Applications: Refractories, agri- products, chemical treatment	Technical/ BP Grade  Mg content ± 10% S content ± 13%  25Kg bags 1 ton bulk bags	
		Caustic Magnesium Oxide [MgO] Chamotte  Applications: Refractories, agri- products, fertilizers, construction, animal feed, water purifying	On Average % MgO 85,0* SiO <sub>2</sub> 7,5 CaO 1,0 Fe <sub>2</sub> O <sub>3</sub> 0,1 LOI 3,5  Reactivity: 80% Mg content: ± 53,6%	
Powder grade I Powder grade II Fine grade Fine grade ND Coarse grade	Note: * unignited MgO ignited: 92,0%  Sizing: 100% -75µm 100% -150µm -1mm -1mm (dust free) 1 - 4,5mm	25 kg bags 25kg bulk bags		

## MAGNESITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
2. Company / Mine				
FOLOVHODWE MINING (PTY) LTD <b>(Mine Code 4132)</b> P O Box 30 0062 IRENE  Tel: +27 (0)12 345 4539/3572/4286 +27 (0) 14 717 1155 Fax:+27 (0)12 345 4058 086 624 0253/ 086 624 0383 customerservice@syferfontein.co.za ein.co.za sales@syferfontein.co.za  <u>Farm, District, Province</u> Folovhodwe village THOHOYANDOU LIMPOPO PROVINCE	Central processing plant. Crushing Sizing & milling	Raw Magnesite  Syfermag -75 Syfermag-15mm  Magnesium oxide / Caustic Magnesia [MgO]  Syfermagox-150/100# Syfermagox -1mm Syfermagox-1mm ND Syfermagox -25mm	On Average % MgO 45 SiO <sub>2</sub> 2,3 CaO 1,4 Fe <sub>2</sub> O <sub>3</sub> 0,4 Al <sub>2</sub> O <sub>3</sub> 0,2 LOI 50  Sizing: 99% -75µm 100% -15mm*  Raw magnesite can be sized / milled to clients request  On Average % MgO 80-85 SiO <sub>2</sub> 4 CaO 2 Fe <sub>2</sub> O <sub>3</sub> 0,4 Al <sub>2</sub> O <sub>3</sub> 0,2 LOI 6  Sizing: 99% -150µm 100% -1mm 100% -1mm de-dusted 100% -25mm*  All products sold in: 1 ton bulk bags 25 kg bags Bulk  Note: * Top-cut value	SYFERFONTEIN CALCITE (PTY) LTD P O Box 26683 0105 MONUMENT PARK  Tel: +27 (0)12 346 2964 Fax:+27 (0)12 346 2482 syferfontein@mweb.co.za
3. Company / Mine				
REGISON MINING (PTY) LTD <b>(Mine Code 1801)</b> P O Box 455 1450 ALBERTON  Tel: +27 (0)11 908 2511 Fax:+27 (0)12 345 4058  <u>Farm, District, Province</u> Block 1 Muyexe; Rooikat;	Opencast	Magnesite	On Average %	REGISON MINING (PTY) LTD <b>(Mine Code 1801)</b> P O Box 455 1450 ALBERTON  Tel: +27 (0)11 908 2511 Fax:+27 (0)12 345 4058

**MAGNESITE**

<b>PRODUCER</b>	<b>TYPE OF OPERATION</b>	<b>PRODUCT</b>	<b>ANALYSIS/ SPECIFICATIONS</b>	<b>MARKETING</b>
Klein Lethaba GIYANI LIMPOPO PROVINCE				
4. Company / Mine				
MAGNESITE MINING (PTY) LTD <b>(Mine Code 2964)</b> P O Box 1075 0900 MUSINA  Tel: +27 (0)12 346 2528 Fax:+27 (0)12 346 2482	Opencast	Magnesite	On Average %	MAGNESITE MINING (PTY) LTD <b>(Mine Code 2964)</b> P O Box 1075 0900 MUSINA  Tel: +27 (0)12 346 2528 Fax:+27 (0)12 346 2482
<u>Farm, District, Province</u> Ha Folovhodwe village B (GOVT Ground) THOHOYANDOU LIMPOPO PROVINCE				

## MICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. Group				
INGWE MICA INDUSTRIES (PTY) LTD PRIVATE BAG X3011 1390 PHALABORWA  Tel: +27 (0)15 793 1880 Fax: +27 (0)15 793 1890 sales@ingwemica.co.za				
1.1 Company / Mine				
GELLETICH MINING INDUSTRIES/ MARBLE BATH MINE <b>(Mine Code 0384)</b> Private Bag X3011 1390 PHALABORWA  Tel: +27 (0)15 793 1880 Fax: +27 (0)15 793 1890 gmi@lantic.net  <u>Farm, District, Province</u> Hoofpyn 269 Kt Inyoku 159 KT LETABA LIMPOPO PROVINCE	Opencast; underground crushing, washing and sorting, dry & wet milling	Wet ground mica flakes  Dry ground mica flakes	Sizing: 325# -45µm 180# -90µm 60# -250µm  Sizing: 20# -850µm 60# -250µm  Moisture: 1%  Other sizes available on request  25 kg bags	INGWE MICA INDUSTRIES (PTY) LTD PRIVATE BAG X3011 1390 PHALABORWA  Tel: +27 (0)15 793 1880 Fax: +27 (0)15 793 1890 sales@ingwemica.co.za
2. Company/Plant				
MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax: +27 (0)11 486 1928 www.micronized.com info@micronized.com	Mining, milling & micronizing	Flaked, micronized, & dry ground.  Mica 8# Mica 20# Mica 30 Mica 40# Mica 60# Mica 325#	On Average % SiO <sub>2</sub> 45,7 Al <sub>2</sub> O <sub>3</sub> 34,3 K <sub>2</sub> O 10,3 Fe <sub>2</sub> O <sub>3</sub> 4,2 Na <sub>2</sub> O 0,7 LOI 4,1  BD 200-400 g/l (loose) BD 500-700 g/l (tapped) 25 kg polyprop. bags	MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax: +27 (0)11 486 1928 www.micronized.com info@micronized.com

## MICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
3. Group				
PEGMIN (PTY) LTD PRIVATE BAG X3010 1390 PHALABORWA  Tel: +27 (0)15 793 1883 Fax: +27 (0)15 793 1439 pegmin@nix.co.za	Opencast; crushing, washing, sorting, screening, HMS, micronizing	Micronized feldspar Microbrite 5  Main applications: Paint, rubber, glass, plastics, ceramics	On Average % Na <sub>2</sub> O 2-3 K <sub>2</sub> O 6-9 Fe <sub>2</sub> O <sub>3</sub> 0.01  Sizing: 98.5% - 1mm 98.5% - 75µm  1 ton bulk bags Bulk	PEGMIN (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax: +27 (0)11 486 1928 pegmin@nix.co.za
3.1 Company / Mine				
PEGMIN MINE <b>(Mine Code 0497)</b> Private Bag X3010 1390 PHALABORWA  Tel: +27 (0)15 793 1883 Fax: +27 (0)15 793 1439 pegmin@nix.co.za				
<u>Farm, District, Province</u> Hoofpyn 159 KT Excellence 157 KT Inyoku 159 KT Islington 163 KT PHALABORWA LIMPOPO PROVINCE				

## MINERAL PIGMENTS

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. Company\Mine				
TORMINN MINERALS SANDS ( <b>Mine Code 3832</b> ) PO BOX 5515, 8000 Cape Town  Tel: +27 (0)31 765 5552 Fax:+27 (0)31 765 4514  <u>Farm, District, Province</u> Geelwal Karoo 262 Vanrhynsdorp WESTERN CAPE	Opencast	Mineral sands for epoxy Flooring	n/a	Steenvas cc
2. Company/Plant				
MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax:+27 (0)11 486 1928 www.micronized.com info@micronized.com	Milling & micronizing	Tioxsil - White pigment extender	On Average % SiO <sub>2</sub> 66,34 MgO 33,20 Fe <sub>2</sub> O <sub>3</sub> 0,24 CaO 0,11 TiO <sub>2</sub> 0,0  Sizing: 100% -45µm S.G. 2,6 BD 270-330 g/l  25kg polyprop bags	MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax:+27 (0)11 486 1928 www.micronized.com info@micronized.com
3. Group / Company				
G & W BASE & INDUSTRIAL MINERALS (PTY) LTD <b>(Mine Code 1000)</b> P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 824 2710 Fax:+27 (0)11 824 2721 www.gwbase.co.za www.zimco.co.za	Milling & packaging, distributing	Manganese dioxide CB          Red Oxide          Yellow Ochre	On Average % SiO <sub>2</sub> 6,4 Al <sub>2</sub> O <sub>3</sub> 0,4 Fe <sub>2</sub> O <sub>3</sub> 15,3 MNO <sub>2</sub> 72 ,5 LOI 3,6 S.G 3,3          On Average % SiO <sub>2</sub> 3,0 Al <sub>2</sub> O <sub>3</sub> 1,2 Fe <sub>2</sub> O <sub>3</sub> <90 MNO <sub>2</sub> N/A LOI 0,6 S.G 4,8          On Average % SiO <sub>2</sub> 23,2 Al <sub>2</sub> O <sub>3</sub> 6,3	G & W BASE & INDUSTRIAL MINERALS (PTY) LTD  Tel: +27 (0)11 824 2710 Fax:+27 (0)11 824 2721 www.gwbase.co.za  Western Cape PROTEA INDUSTRIAL CHEMICALS (PTY) LTD  Tel: +27 (0)21 550 8100 Fax:+27 (0)21 550 8180 www.prochem.co.za  KwaZulu-Natal PROTEA INDUSTRIAL CHEMICALS (PTY) LTD  Tel: +27 (0)31 468 5424 Fax:+27 (0)31 468 5429



**MINERAL PIGMENTS**

<b>PRODUCER</b>	<b>TYPE OF OPERATION</b>	<b>PRODUCT</b>	<b>ANALYSIS/ SPECIFICATIONS</b>	<b>MARKETING</b>
			Fe <sub>2</sub> O <sub>3</sub> 56,8 MNO <sub>2</sub> N/A LOI 10,8 S.G 3.1  Moisture: 1 %  Milling as per customer requirements  40 kg paper bags	<a href="http://www.prochem.co.za">www.prochem.co.za</a>

## PERLITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
1.	Group			
	PRATLEY PERLITE MINING CO. (PTY) LTD P O Box 3055 1745 KENMARE			
	Tel: +27 (0)11 955 2190/ 8 Fax:+27 (0)11 955 3918 www.pratley.com			
1.1	Mine			
	PRATLEY NXWALA MINE <b>(Mine Code 1111)</b> Sodwana Bay Road 3960 HLUHLUWE	Opencast; crushing, screening & expansion	Perlite Expanded Perlite Pretreated Perlite Natural zeolite Clinoptilolite	PRATLEY POLYMERS (PTY) LTD P O Box 3055 1745 KENMARE
	<u>Farm, District, Province</u> Nxala Estates UBOMBO KWAZULU/NATAL		Applications: horticulture, insulation, construction, feed additive, water purifier, de-odourizer, slag coagulant	Tel: +27 (0)11 955 2190/ 8 Fax:+27 (0)11 955 3918 www.pratley.com pratley@pratley.com
			Pratliperl** Pratliperl Slag Ag**	
			On Average % SiO <sub>2</sub> 70-75 Al <sub>2</sub> O <sub>3</sub> 11-18 K <sub>2</sub> O 3,5-7,0 Na <sub>2</sub> O 2,9-4,0 CaO 0,5-2,0 MgO 0,1-0,5 TiO <sub>2</sub> 0,03-0,2 Fe <sub>2</sub> O <sub>3</sub> 0,5-1,5	
			Pratliperl [Expanded perlite]	Pratliperl BD: Loose 100 kg/m <sup>3</sup> Mixed^ 300-1000 kg/m <sup>3</sup>
		Pratliperl 100 Pratliperl 150 Pratliperl 200 Pratliperl 300		10kg polyprop bags
		Pre-treated Pratliperl [Expanded perlite]		Note:
		Pratliperl Slag Ag – [Unexpanded perlite]		^ Pratliperl mixed with cement
		Pratliperl Vulture Creek Clino [Clinoptilolite]		** Chemical analysis before expansion in furnace
		Pratliperl Clinomix		

## PHOSPHATE ROCK

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
1. Group				
GECKO FERT (EDMD) BPK P O Box 2727 7620 PAARL				
Tel: +27 (0)21 872 9599 Fax: +27 (0)86 632 0400				
1.1 Mine				
GECKO FERT (EDMD) BPK <b>(Mine Code 4762)</b> P O Box 2727 7620 PAARL	Opencast	Concentrates Palfos 80 Palfos 85 Palfos 88 Langfos	On Average %	GECKO FERT (EDMD) BPK P O Box 2727 7620 PAARL  Tel: +27 (0)21 872 9599 Fax: +27 (0)86 632 0400
Tel: +27 (0)21 872 9599 Fax: +27 (0)86 632 0400				
<u>Farm, District, Province</u> Gedeelte 7 Langeberg 185 Ptn 7 Hopefield HOPEFIELD WESTERN CAPE				
2. Group				
GLENOVER PHOSPHATE (PTY) LTD P O Box 76370 2144 WENDYWOOD				
Tel: +27 (0)11 804 3838 Fax: +27 (0)11 804 2929				
2.1 Mine				
GLENOVER MINE <b>(Mine Code 0232)</b> P O Box 76370 2144 WENDYWOOD	Opencast	Concentrates Palfos 80 Palfos 85 Palfos 88	On Average %	GLENOVER PHOSPHATE (PTY) LTD P O Box 76370 2144 WENDYWOOD  Tel: +27 (0)11 804 3838 Fax: +27 (0)11 804 2929
Tel: +27 (0)11 804 3838 Fax: +27 (0)11 804 2929				
<u>Farm, District, Province</u> Glenover 371 LQ Ptn 1 Glenover 43 THABAZIMBI LIMPOPO PROVINCE				

## PHOSPHATE ROCK

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
3. Group				
INDUSTRIAL DEVELOPMENT CORPORATION LTD (IDC) P O Box 784055 2146 SANDTON				
Tel: +27 (0)11 269 3000 Fax: +27 (0)11 269 3115 www.idc.co.za				
3.1 Mine				
FOSKOR LTD <b>(Mine Code 0205)</b> P O Box 1 1390 PHALABORWA	Opencast; crushing, milling, flotation and drying	Concentrates Palfos 80 Palfos 83 Palfos 85 Palfos 88 Palfos B	On Average %  <u>Palfos B:</u> P <sub>2</sub> O <sub>5</sub> > 36,5 CaO 53,5 MgO 0,95 SiO <sub>2</sub> 0,94 Fe <sub>2</sub> O <sub>3</sub> 0,38 Al <sub>2</sub> O <sub>3</sub> 0,15 F 2,35 CO <sub>2</sub> 1,9  H 5 S.G. 3,17 BD 1,7-1,75 (t/m <sup>3</sup> ) Moisture 0,4-1,0%  Sizing: 15% +212µm 35% -75µm	FOSKOR LTD P O Box 1 1390 PHALABORWA  Tel: +27 (0)15 789 2000 Fax: +27 (0)15 789 2066 www.foskor.co.za
Tel: +27 (0)15 789 2000 Fax: +27 (0)15 789 2066 www.foskor.co.za				
<u>Farm, District, Province</u> Laaste 24 LU Loole 31 LU Schiettoch 25 LU Wegsteek 30 LU PHALABORWA LIMPOPO PROVINCE				

## PHOSPHORIC ACID

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1.	Group			
	FARMERS WORLD LIMPOPO (PTY) LTD P O Box 463 MODDERFONTEIN			
	Tel: +27 (0)11 680 2245 Fax: +27 (0)11 522 4622			
	info@bosveldafrica.co.za			
1.1	Plant			
	BOSVELD PHOSPHATES <b>(Mine Code 1476)</b> Private Bag X 01022 1390 PHALABORWA	Manufacturing	Phosphoric acid	On Average % P <sub>2</sub> O <sub>5</sub> 52 -54 Solids < 0,5%*
	Tel: +27 (0)15 780 6100 Fax: +27 (0)15 780 6103		Sulphuric acid	On Average % H <sub>2</sub> SO <sub>4</sub> 98,5% %
	<u>Farm, District, Province</u> Wegsteek 30 PHALABORWA LIMPOPO			Note: * At loading
				FARMERS WORLD LIMPOPO (PTY) LTD P O Box 463 MODDERFONTEIN
				Tel: +27 (0)11 680 2245 info@bosveldafrica.co.za
2.	Group			
	FOSKOR LTD P O Box 1 1390 PHALABORWA			
	Tel: +27 (0)15 789 2000 Fax: +27 (0)15 789 2066 www.foskor.co.za			
2.1	Plant			
	FOSKOR LIMITED (RICHARDS BAY) <b>(Mine Code 1356)</b> P O Box 208 3900 RICHARDS BAY	Manufacturing	Phosphoric acid	On Average % P <sub>2</sub> O <sub>5</sub> 52-54 Solids < 1
	Tel: +27 (0)35 902 3167 Fax: +27 (0)35 797 3739 www.foskor.co.za		Di-ammonium Phosphate [DAP]	On Average % P <sub>2</sub> O <sub>5</sub> 46 N 18
			Mono-ammonium phosphate [MAP]	On Average % P <sub>2</sub> O <sub>5</sub> 52 N 11
			Triple-super Phosphate	Sizing: 2-4 mm On Average %
				FOSKOR LIMITED (RICHARDS BAY) P O Box 22326 4022 GLENASHLEY
				Tel: +27 (0)31 580 7500 Fax: +27 (0)31 580 7522 www.foskor.co.za

## PHOSPHORIC ACID

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
			P <sub>2</sub> O <sub>5</sub> 46%	
			Sizing: 2-4 mm	
		NPKs	Various grades	
3.	Group			
	OMNIA FERTILIZER LTD P O Box 69888 2021 BRYANSTON			
	Tel: +27 (0)11 709 8888 Fax: +27 (0)11 463 3020 www.omnia.co.za group@omnia.co.za			
3.1	Plant			
	OMNIA METROLOGY (PTY) LTD <b>(Mine Code 2997)</b> Private Bag X82271 0300 RUSTENBURG	Manufacturing	Phosphoric acid	OMNIA FERTILIZER LTD P O Box 69888 2021 BRYANSTON
	Tel: +27 (0)14 569 1500 Fax: +27 (0)14 569 1526		On Average% P <sub>2</sub> O <sub>5</sub> 48 - 52 Solids < 0,5% at loading	Tel: +27 (0)11 709 8888 Fax: +27 (0)11 463 3020 www.omnia.co.za group@omnia.co.za
			Mono-ammonium Phosphate [MAP] - Powder - Crystal	
			Powder: P <sub>2</sub> O <sub>5</sub> 48 - 52 N 10,8 - 11,2	
			Crystal: P <sub>2</sub> O <sub>5</sub> 60 - 62 N 8,6 - 12,2	

## PYROPHYLLITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. Group				
ASSORE (PTY) LTD PRIVATE BAG X03 2116 NORTHLANDS				
Tel: +27 (0)11 770 6823 Fax: +27 (0)11 268 6921 info@assore.com www.assore.com				
1.1 Mine				
WONDERSTONE (PTY) LTD <b>(Mine Code 0736)</b> P O Box 10 2610 OTTOSDAL	Opencast; crushing; milling and sizing	Wonderstone / Pyrophyllite  Blocks Cores Tiles Tubes Powders Crucibles	On Average % SiO <sub>2</sub> 58 Al <sub>2</sub> O <sub>3</sub> 29-30 Fe <sub>2</sub> O <sub>3</sub> 1-1,5 TiO <sub>2</sub> 1,5-2.0 CaO < 0,5 Na <sub>2</sub> O < 0,5 LOI 6-7  Hardness: -Natural 1-1,5 -Calcined ± 6  MP 1 630°C S.G. 2,3 g/c.c  Powder sizing: 5-500µm  All packaging as determined by product vulnerability	ASSORE (PTY) LTD Private Bag X03 2116 NORTHLANDS  Tel: +27 (0)11 770 6823 Fax: +27 (0)11 268 6921 www.assore.com wonderstone@assore.com  Ceramax products www.ceramox.edx.co.za
Tel: +27 (0)18 571 0076 Fax: +27 (0)18 571 0312 wonderstone@assore.com		All products shaped and sized to clients request		
<u>Farm, District, Province</u> Gestoptefontein 349 IQ LICHTENBURG NORTH WEST				
2. Group				
IDWALA INDUSTRIAL MINERALS (PTY) LTD Private Bag X93 2021 BRYANSTON				
Tel: +27 (0)11 706 0000 Fax: +27 (0)11 706 0044 www.idwala.co.za				
2.1 Company/Plant				
IDWALA INDUSTRIAL MINERALS (PTY) LTD P O Box 6056 1508 DUNSWART	Crushing, milling, screening, classifying & micronising, calcining	Calcined & micronized - pyrophyllite  Main applications: Extender & filler in paint, plastic, paper, ceramics,	On Average % SiO <sub>2</sub> 55 Al <sub>2</sub> O <sub>3</sub> 34 TiO <sub>2</sub> 1,4 Fe <sub>2</sub> O <sub>3</sub> 0,1 K <sub>2</sub> O 3,3 Na <sub>2</sub> O 1,4 LOI 5	IDWALA SALES AND DISTRIBUTION P O Box 6056 1508 DUNSWART  Tel: +27 (0)11 914 2600 Fax: +27 (0)11 914 1293
Tel: +27 (0)39 687 8000 Fax: +27 (0)39 687 8027 www.idwala.co.za				

## PYROPHYLLITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
(IDWALA INDUSTRIAL MINERALS continued)		pitch control & adhesives Alpitch Pyrofil Alsil P Alsil 2 Silkidwala	Mean sizing: 2µm 3µm 15µm 3µm 2µm  Moisture: 0,01%  Calcined colour: 91 Natural colour: 86  25kg bags 1 ton bulk bags Bulk tankers	IDWALA SALES AND DISTRIBUTION P O Box 785 4000 DURBAN  Tel: +27 (0)31 579 3355 Fax: +27 (0)31 579 3399  IDWALA SALES AND DISTRIBUTION P O Box 36458 7702 CAPE TOWN  Tel: +27 (0)21 637 8155 Fax: +27 (0)21 637 8211
2.2 Mine				
IDWALA WITPOORT QUARRY <b>(Mine Code 2110)</b> P O Box 566 2610 OTTOSDAL  Tel: +27 (0)18 571 0645 Fax: +27 (0)18 571 0343  <u>Farm, District, Province</u> Witpoort 281 IP LICHTENBURG NORTH WEST	Opencast, selective mining	Crude Pyrophyllite	On Average % SiO <sub>2</sub> 55 Al <sub>2</sub> O <sub>3</sub> 34 TiO <sub>2</sub> 1,4 Fe <sub>2</sub> O <sub>3</sub> 0,1 K <sub>2</sub> O 3,3 Na <sub>2</sub> O 1,4 LOI 5  Sizing: -150µm Bulk	IDWALA SALES AND DISTRIBUTION P O Box 6056 1508 DUNSWART  Tel: +27 (0)11 914 2600 Fax: +27 (0)11 914 1293



## SILICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
1.	Group			
	ATLANTIS SAND SALES (PTY) LTD P O Box 2257 7535 BELLVILLE			
	Tel: +27 (0)21 577 1900 Fax: +27 (0)21 577 4023 Fax: +27 (0)21 975 9927			
1.1	Mine			
	ATLANTIS GIETERY (PTY) LTD <b>(Mine Code 1348)</b> P O Box 2257 7535 BELLVILLE	Opencast; washing, screening, sizing & drying	Silica sand  Main applications: Foundry & core sands	ATLANTIS SAND SALES (PTY) LTD P O Box 2257 7535 BELLVILLE  Tel: +27 (0)21 577 1900 Fax: +27 (0)21 577 4023
	Tel: +27 (0)21 577 1900 Fax: +27 (0)21 577 4023 Fax: +27 (0)21 975 9927		On Average % SiO <sub>2</sub> 99,5  Size: 99% < 710µm  Moisture: 0,1%  Bulk	
	<u>Farm, District, Province</u> Bakkefontein 32 MALMESBURY WESTERN CAPE			
2.	Group			
	B & E SILICA (PTY) LTD P O Box 157 2210 DELMAS			
	Tel: +27 (0)13 665 7900 Fax: +27 (0)13 665 7910 www.besilica.com			
2.1	Mine			
	B & E SILICA- SPITSKOP <b>(Mine Code 0603)</b> P O Box 157 2210 DELMAS	Opencast; crushing, screening & washing	Lumps Sand & aggregate  Main applications: Metallurgical & construction	BRONX MINING INVESTMENTS (PTY) LTD P O Box 1314 BRONKHORSTSPRUIT 1020  Tel: +27 (0) 13 932 1394 Fax: +27 (0) 13 932 2904 (NO WEBSITE ESPECIALLY FOR Spitskop)
	Tel: +27 (0) 13 680 1181 Fax: +27 (0) 13 680 1181 <u>Farm, District, Province</u> Spitskop 533 JR BRONKHORSTSPRUIT GAUTENG		On Average % SiO <sub>2</sub> 97,4 Fe <sub>2</sub> O <sub>3</sub> 0,53 Al <sub>2</sub> O <sub>3</sub> 0,92 CaO 0,00 Na <sub>2</sub> O 0,18  Sizing: 0 - 6 mm 0 - 16 mm 16 -100 mm  Bulk	

## SILICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
2.2	Mine			
BRONX MINING INVESTMENT (PTY) LTD <b>(Mine Code 1683)</b> P O Box 1413 BRONKHORSTSPRUIT 1020  Tel: +27 (0) 13 932 1394 Fax: +27 (0) 13 932 2904 www.bronxmine.com  <u>Farm, District, Province</u> Vlakfontein 523 JR, Ptn 7 BRONKHORSTSPRUIT GAUTENG	Opencast; crushing, washing, screening, drying and grading	Silica sand Silica lumps  Main applications: Glass industry, fluxing in steel process, foundries, and leisure sand	On Average % SiO <sub>2</sub> 99,2 Fe <sub>2</sub> O <sub>3</sub> 0,09 Al <sub>2</sub> O <sub>3</sub> 0,2 CaO 0,11 LOI 0,20  Sizing: -1mm Industrial sand -1400 Fine sand 6-10mm 19mm 15-37mm 37-50mm 50-100mm  Bulk	BRONX MINING INVESTMENTS (PTY) LTD P O Box 1314 BRONKHORSTSPRUIT 1020  Tel: +27 (0) 13 932 1394 Fax: +27 (0) 13 932 2904 www.bronxmine.com
2.3	Mine			
SILICA QUARTZ (PTY) LTD <b>(Mine Code 0204)</b> P O Box 157 2210 DELMAS  Tel: +27 (0)13 665 7900 Fax:+27 (0)13 665 7910 www.silicaquartz.co.za  <u>Farm, District, Province</u> Groenfontein 206 IR DELMAS MPUMALANGA	Opencast; dredging, hydro jet-sizing, spiral concentrating, bulk drying and bagging	Silica sand Silica pebbles Silica stone  Filtration sands  Grit  Pebbles  Industrial sands	On Average % SiO <sub>2</sub> 99,13 Fe <sub>2</sub> O <sub>3</sub> 0,54 Al <sub>2</sub> O <sub>3</sub> 0,43 CaO 0,08 LOI 0,04  Sizing: 0,3 - 1,7mm (8 grades available)  2 - 7mm (4 grades available)  3 - 5 mm 5 - 7 mm 6 - 12 mm 12 - 25 mm 25 - 45 mm  38 - 45 AFS 45 - 55 AFS Glass sand  <u>Packaging</u> Bags: 20, 25, 40 kg 1 ton Bulk bags Bulk	B & E SILICA (PTY) LTD P O Box 157 2210 DELMAS  Tel: +27 (0)13 665 7900 Fax:+27 (0)13 665 7910 www.silicaquartz.co.za

## SILICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING	
3.	Group				
	BRIKOR LIMITED P O Box 297 0127 SILVERTON				
	Tel: +27 (0)12 802 1393 Fax: +27 (0)12 802 1394				
3.1	Company / Mine				
	DONKERHOEK QUARTZITE (PTY) LTD <b>(Mine Code 1063)</b> P O Box 297 0127 SILVERTON	Opencast; crushing and sizing	Silica sand Silica lumps  Main applications: Glass industry, fluxing in steel process, foundries, and leisure sand	On Average % SiO <sub>2</sub> 90 Al <sub>2</sub> O <sub>3</sub> < 0,25 Fe <sub>2</sub> O <sub>3</sub> < 0,25  <u>Sizing</u> Flux: 60-150mm Aggregate: -19mm	DONKERHOEK QUARTZITE (PTY) LTD P O Box 297 0127 SILVERTON  Tel: +27 (0)12 802 1393 Fax: +27 (0)12 802 1394
	<u>Farm, District, Province</u> Donkerhoek 365, Ptns 84, 114, 115, 116 CULLINAN GAUTENG				
4.	Group				
	CARBORANDUM UNIVERSAL INTERNATIONAL P O Box 1 1390 PHALABORWA				
	Tel: +27 (0)15 789 2346 Fax: +27 (0)15 789 2463 zirc@foskor.co.za				
4.1	Company / Plant				
	FOSKOR ZIRCONIA LTD <b>(Mine Code 4570)</b> P O Box 1 1390 PHALABORWA	By-product of Zirconia electro- fusion process and fine milling	Silica fume powder  On Average %: SiO <sub>2</sub> 83 - 91 ZrO <sub>2</sub> 6 - 12 Fe <sub>2</sub> O <sub>3</sub> 0,3 - 0,6 Al <sub>2</sub> O <sub>3</sub> 0,1 - 0,4 LOI 0,2 - 1,0  <u>Sizing</u> : 95% -45µm  500 kg bulk bags	FOSKOR ZIRCONIA LTD P O Box 1 1390 PHALABORWA  Tel: +27 (0)15 789 2346 Fax: +27 (0)15 789 2463 zirc@foskor.co.za	
	<u>Farm, District, Province</u> Laaste 24 LU Loole 31 LU Schiettoch 25 LU Wegsteek 30 LU PHALABORWA LIMPOPO PROVINCE				

## SILICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
5.	Group			
	CONSOL INDUSTRIAL MINERALS P O Box 32019 7808 OTTERY			
	Tel: +27 (0)21 690 2003 Fax: +27 (0)21 691 0355			
5.1	Plant			
	CONSOL INDUSTRIAL MINERALS DIVISION <b>(Mine Code 0296)</b> P O Box 32019 7808 OTTERY	Opencast; dredging, hydro jet-sizing, spiral concentrator, bulk drying and bagging	On Average % SiO <sub>2</sub> 99,65 Fe <sub>2</sub> O <sub>3</sub> 0,025 Al <sub>2</sub> O <sub>3</sub> 0,09 CaO 0,018 TiO <sub>2</sub> 0,037 MgO 0,004 LOI 0,17	CONSOL INDUSTRIAL MINERALS DIVISION P O Box 32019 7808 OTTERY Tel: +27 (0)21 691 0010 Fax: +27 (0)21 691 0355 www.consol.co.za
	Tel: +27 (0)21 691 0010 Fax: +27 (0)21 691 0355 www.consol.co.za			
	<u>Farm, District, Province</u> Philippi 30 WYNBERG WESTERN CAPE			
		Glass grade	Sizing: 0,075 – 0,5 mm	
		Foundry sands	AFS 35, 45, 55, 65	
		Filter sand	16/30, 20/40	
		Sandblasting	38 - 45 AFS (No.1)	
		Golf sand	Various sizes Moisture: Drained and dry (0,2%max)	
			25kg paper bags 40kg plastic bags 1,5 t bulk bags Bulk tankers Bulk	
6.	Group			
	FERROATLANTICA (SPAIN) Cuatro Torres Business Area Torre Espacio Paseo de la Castellana, 259D - 45th and 49th Floors 28046 MADRID - SPAIN			
	Tel: +34 915 90 32 19/34 Fax: +34 916 63 91 07			



## SILICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
Tel: +27 (0)11 824 2566/7 Fax: +27 (0)11 824 2670 fim@global.co.za		Silica 150/ 100#	Sizing: min. 93% -106µm	
		Silica 200/ 75#	min. 93% -75µm	
<u>Farm, District, Province</u> Wadeville Town Council GERMISTON GAUTENG		Silica 325/ 45#	min. 93% -45µm	
			40kg bags 1 ton bulk bags	
			Other packaging forms available on request	
8. Group				
IDWALA INDUSTRIAL HOLDINGS (PTY) LTD Private Bag X93 2021 BRYANSTON				
Tel: +27 (0)11 706 0000 Fax: +27 (0)11 706 0044 www.idwala.co.za				
8.1 Plant				
IDWALA INDUSTRIAL MINERALS (PTY) LTD <b>(Mine Code 1023)</b> P O Box 6056 1508 DUNSWART	Crushing, milling, magnetic separation, screening, classification & micronising	Silica flour  Main applications: Paint, adhesives, glazing, extender & chemical	On Average % SiO <sub>2</sub> 99,4 Al <sub>2</sub> O <sub>3</sub> 0,4 Fe <sub>2</sub> O <sub>3</sub> 0,02  Sizing: 96% -45µm 96% -75µm 96% -105µm 60% -45µm 20% -105µm	IDWALA SALES AND DISTRIBUTION P O Box 6056 1508 DUNSWART  Tel: +27 (0)11 914 2600 Fax: +27 (0)11 914 1293
Tel: +27 (0)31 579 3355 Fax: +27 (0)31 579 3399 www.idwala.co.za	<u>Crude silica from:</u> Delmas Silica Mine [Samquarz]	Silica S1 325# Silica S95 200# Silica S15 150# Silica CRM Silica SGG	25kg bags 50kg bags 1 ton bulk bags Bulk tankers	IDWALA SALES AND DISTRIBUTION P O Box 785 4000 DURBAN  Tel: +27 (0)31 579 3355 Fax: +27 (0)31 579 3399
				IDWALA SALES AND DISTRIBUTION P O Box 36458 7702 CAPE TOWN  Tel: +27 (0)21 637 8155 Fax: +27 (0)21 637 8211
9. Group				
JHH PRETORIUS P O Box 308 1400 GERMISTON				
Tel: +27 (0)16 365 5694 Fax: +27 (0)16 365 5638				

## SILICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING	
9.1	Mine				
	MISSION POINT TRADING 41 (PTY) LTD <b>(Mine Code 4916)</b> P O Box 308 1400 GERMISTON	Opencast	Silica	On Average %	JHH PRETORIUS P O Box 308 1400 GERMISTON  Tel: +27 (0)16 365 5694 Fax: +27 (0)16 365 5638
	Tel: +27 (0)16 365 5694 Fax: +27 (0)16 365 5638				
	<u>Farm, District, Province</u> Rietfontein 152; Waagstuk 78, Driefontein 2 SASOLBURG FREE STATE				
10.	Group				
	MALCOLM CLAASE P O Box 72 1100 BELFAST				
	Tel: +27 (0)13 253 0122 Fax: +27 (0)13 690 3875				
10.1	Mine				
	BELFAST SILICA <b>(Mine Code 3266)</b> P O Box 72 1100 BELFAST	Opencast	Silica	On Average %	MALCOLM CLAASE P O Box 72 1100 BELFAST  Tel: +27 (0)13 253 0122 Fax: +27 (0)13 690 3875
	Tel: +27 (0)13 253 0122 Fax: +27 (0)13 690 3875				
	<u>Farm, District, Province</u> Klipfontein BELFAST MPUMALANGA				
11.	Group				
	MARK VAN WYK P O Box 17037 1470 SUNWARDWARD PARK				
	Tel: +27 (0)11 913 1719 Fax: +27 (0)86 671 3465				

## SILICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
11.1	Mine			
WINNERS POINT 117 TRADING (PTY) LTD <b>(Mine Code 1412)</b> P O Box 17037 1470 SUNWARDWARD PARK	Opencast	Silica	On Average %	MARK VAN WYK P O Box 17037 1470 SUNWARDWARD PARK  Tel: +27 (0)11 913 1719 Fax: +27 (0)86 671 3465
<u>Farm, District, Province</u> Woodlands 407; Vaal Eden PARYS FREE STATE				
12.	Group			
MAXIMA HOLDINGS P O Box 3479 0250 BRITS				
Tel: +27 (0)87 941 2589 Fax: +27 (0)86 517 7195				
12.1	Mine			
MAXIMA SILICA (PTY) LTD <b>(Mine Code 4979)</b> P O Box 17037 P O Box 3479 0250 BRITS	Opencast	Silica	On Average %	MAXIMA HOLDINGS P O Box 3479 0250 BRITS  Tel: +27 (0)87 941 2589 Fax: +27 (0)86 517 7195
<u>Farm, District, Province</u> Bultfontein 259 JQ 3 of 1; Ptn Boshhoek 1 RUSTENBURG NORTH-WEST				
13.	Company / Mine			
MK SAND <b>(Mine Code 4918)</b> P O Box 496 6330 JEFFREYS BAY	Opencast	Silica	On Average %	MK SAND P O Box 496 6330 JEFFREYS BAY  Tel: +27 (0)82 770 6386
<u>Farm, District, Province</u> Die Would 500 1 UITENHAGE EASTERN CAPE				





## SILICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
16.	Group			
	PETRA MINING LTD PO Box 9446 0001 PRETORIA			
	Tel: +27 (0)12 324 3320/ 1 Fax: +27 (0)12 323 2027			
16.1	Company / Mine			
	SAMQUARZ (PTY) LTD / DELMAS SILICA MINE <b>(Mine Code 0151)</b> P O Box 65 2210 DELMAS	Opencast; crushing; sizing, wet classifying and drying	Metallurgical rock - chert - sand	SAMQUARZ (PTY) LTD P O Box 65 2210 DELMAS  Tel: +27 (0)13 665 7200 Fax: +27 (0)86 613 7007 www.samquarz.co.za
	Tel: +27 (0)13 665 7200 Fax: +27 (0)13 665 7280/ 1/ 2 www.samquarz.co.za		On Average % SiO <sub>2</sub> > 99 Sizing: 25-80mm 3-10mm  On Average % SiO <sub>2</sub> 96 Sizing: 25 - 90mm 15 - 40mm	
	<u>Farm, District, Province</u> Moabsvelden 248 IR DELMAS MPUMALANGA		Glass sand - Flint (D03) - Float Glass (D13)	
			On Average % SiO <sub>2</sub> 99,5 Al <sub>2</sub> O <sub>3</sub> 0,26 MgO 0,003 CaO 0.007  Fe <sub>2</sub> O <sub>3</sub> content in: D03 0,022 D13 0,030  Sizing: D03 0,125 - 0,600mm D13 0,125 - 0,425mm	
		Foundry & Industrial sand	On Average % SiO <sub>2</sub> N/A Clay < 0,3% Fines < 2% SP 1500 °C  Sizing: D31 (AFS30) -1.0 + 0.35mm D33 (AFS50) -0.5 + 0.125mm D36 (AFS105) -0.3 + 0.06mm	
		Leisure sand	D21, D30 D36 dry sand Silica chips (1-3mm)	
		Building sand Aggregate & stone	Sizing: -26.5mm -37.5mm Crusher sand G1-G10	

## SILICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
17. Company / Mine  PL DE JAGER <b>(Mine Code 4996)</b> PO Box 61 9880 HARRISMITH  Tel: +27 (0)58 672 1018 Fax: +27 (0)58 672 1018  <u>Farm, District, Province</u> Farm 1861 Ptn G HARRISMITH FREE STATE	Opencast	Silica	On Average %	PL DE JAGER PO Box 61 9880 HARRISMITH  Tel: +27 (0)58 672 1018 Fax: +27 (0)58 672 1018
18. Company / Mine  REBONE MINING (PTY) LTD <b>(Mine Code 4428)</b> P O Box 3901 0700 POLOKWANE  Tel: +27 (0)15 263 6231 Fax:+27 (0)15 263 6231  <u>Farm, District, Province</u> Fort Klipdam 852 LS Ptn 13 POLOKWANE LIMPOPO	Opencast	Silica	On Average %	REBONE MINING (PTY) LTD P O Box 3901 0700 POLOKWANE  Tel: +27 (0)15 263 6231 Fax:+27 (0)15 263 6231
19. Company / Mine  ROLFES SILICA (PTY) LTD <b>(Mine Code 0153)</b> P O Box 1451 0250 BRITS  Tel: +27 (0)12 258 0123/ 108 Fax:+27 (0)12 258 0402 info@rolfessilica.co.za  <u>Farm, District, Province</u> Zandfontein 447 Jq, Ptn 95 BRITS NORTH WEST  ROLFES SILICA (PTY) LTD continued on the next page)	Opencast; crushing, washing, screening, drying and grading	Silica sand, grit, pebbles, stone  Filter pebbles  Filter & filler sands  Gravel pack  Silica flour  Industrial sands r	On Average % SiO <sub>2</sub> 99,4 Al <sub>2</sub> O <sub>3</sub> 0,0 Fe <sub>2</sub> O <sub>3</sub> 0,06 CaO 0,01 LOI 0,23  Sizing: 1,2 - 2,4mm 2,4 - 4,8mm  0,3 - 0,65mm 0,4 - 0,85mm 0,6 - 1,5mm 0,8 - 1,8mm  0,6 - 1,2mm  0,075 - 0,3mm <0,425mm <0,600mm <1,00mm  3 - 5mm 4 - 9mm	ROLFES SILICA (PTY) LTD P O Box 1451 0250 BRITS  Tel: +27 (0)12 258 0123/ 108 Fax:+27 (0)12 258 0402 www.rolfesza.co.za

## SILICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING	
			5 - 30mm		
			20, 40kg Bags 1 ton bulk bags Bulk tankers Bulk		
			Packaging and size as requested		
20	Group				
	<p>SAMANCOR LTD P O Box 8186 2000 JOHANNESBURG</p> <p>Tel: +27 (0)11 376 9111 Fax:+27 (0)11 378 7368 www.samancor.co.za</p>				
20.1	Company / Mine				
	<p>TUBATSE QUARTZITE MINE <b>(Mine Code 1346)</b> Private Bag X3 1133 STEELPOORT</p> <p>Tel: +27 (0)13 230 7088 Fax:+27 (0)13 230 7082</p> <p><u>Farm, District, Province</u> Goudmyn 337 KT LYDENBURG MPUMALANGA</p>	Opencast; crushing and sizing	Lumpy silica	<p>On Average % SiO<sub>2</sub> 96,0 Al<sub>2</sub>O<sub>3</sub> 1,6 Fe<sub>2</sub>O<sub>3</sub> 0,5 Moisture: 0,25% Sizing: -80mm + 22mm Waste product: -19mm</p> <p>Bulk</p>	<p>TUBATSE QUARTZITE MINE Private Bag X3 1133 STEELPOORT</p> <p>Tel: +27 (0)13 230 7088 Fax:+27 (0)13 230 7082</p>
21.	Company / Mine				
	<p>SANDY'S SAND MINE <b>(Mine Code 4435)</b> P O Box 5920 1900 VANDERBIJLPARK</p> <p>Tel: +27 (0)16 987 1436 Fax:+27 (0) 16 987 1469</p> <p><u>Farm, District, Province</u> Fraaiuitzitch 217 SASOLBURG FREE STATE</p>	Opencast	Silica	<p>On Average %</p> <p>SANDY'S SAND MINE P O Box 5920 1900 VANDERBIJLPARK</p> <p>Tel: +27 (0)16 987 1436 Fax:+27 (0) 16 987 1469</p>	

## SILICA

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
22. Company / Mine				
V GOVENDER <b>(Mine Code 4504)</b> P O Box 790 3640 KLOOF  Tel: +27 (0)31 766 0164 Fax:+27 (0) 31 766 0167  <u>Farm, District, Province</u> Inanda Location 4675 Ptn PORT SHEPSTONE KWAZULU NATAL	Opencast	Silica	On Average %	V GOVENDER P O Box 790 3640 KLOOF  Tel: +27 (0)31 766 0164 Fax:+27 (0) 31 766 0167
23. Group				
XSTRATA SA (PTY) LTD P O Box 310 0350 KROONDAL  Tel: +27 (0)14 597 8065 Fax:+27 (0)14 597 8052 www.xstrata.co.za  Mine				
XSTRATA ALLOYS MINING DIVISION <b>(Mine Code 3751)</b> P O Box 310 0350 KROONDAL  Tel: +27 (0)14 597 8065 Fax:+27 (0)14 597 8052 www.xstrata.co.za  <u>Farm, District, Province</u> Rietvlei 93 RUSTENBURG NORTH WEST	Opencast	Silica	On Average %	XSTRATA SA (PTY) LTD P O Box 310 0350 KROONDAL  Tel: +27 (0)14 597 8065 Fax:+27 (0)14 597 8052 www.xstrata.co.za

## SULPHUR

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
<b>JOINT VENTURE – BP SA (PTY) LTD &amp; SHELL SA (PTY) LTD</b>				
1.	Group			
	BP SA (PTY) LTD <b>(Mine Code 2564)</b> P O Box 6006 8000 ROGGE BAY			BP SA (PTY) LTD P O Box 6006 8000 CAPE TOWN
	Tel: +27 (0)21 408 2382 Fax: +27 (0)21 408 2600 www.bp.com			Tel: +27 (0)21 408 2382 Fax: +27 (0)21 408 2600 www.bp.com
2.	Group			
	SHELL SA ENERGY (PTY) LTD PRIVATE BAG X19 2021 BRYANSTON			SHELL SA ENERGY (PTY) LTD PRIVATE BAG X19 2021 BRYANSTON
	Tel: +27 (0)11 996 7000 Fax: +27 (0)11 996 7777 www.shell.com			Tel: +27 (0)11 996 7000 Fax: +27 (0)11 996 7777 www.shell.com
				Marekting done by respec- tive companies above
2.1	Plant			
	SAPREF* P O Box 3179 4000 DURBAN	Crude oil refining	Elemental sulphur	On Average % Total S > 99,5% Ash < 0,1% Carbon < 1,5% As < 2ppm Moisture < 0,28% Sizing: Pastilles
	Tel: +27 (0)31 480 1911 Fax: +27 (0)31 480 1913			Packaging: Bulk (rail) Containers
	Note: * SHELL & BP SA PETROLEUM REFINERIES (PTY) LTD			
3.	Group			
	CHEVRON SA (PTY) LTD P O Box 714 8000 CAPE TOWN			
	Tel: +27 (0)21 403 7911 Fax: +27 (0)21 403 7508 www.caltex.com			
3.1	Plant			
	CHEVRON P O Box 13 7435 MILNERTON	Crude oil refining	Elemental sulphur [Molten]	On Average % Elemental Sulphur (dry basis) 99,8
	Tel: +27 (0)21 508 3911 Fax: +27 (0)21 551 1975			Bulk tankers
				CHEVRON SA (PTY) LTD P O Box 714 8000 CAPE TOWN
				Tel: +27 (0)21 403 7911 Fax: +27 (0)21 403 7508 www.caltex.com

## SULPHUR

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
4.	Group			
	ENGEN LTD P O Box 35 8000 CAPE TOWN			
	Tel: +27 (0)21 403 4911 Fax: +27 (0)21 403 4067 www.engen.co.za 1call@engenoil.com			
4.1	Plant			
	ENREF P O Box 956 4000 DURBAN	Crude oil refining	Elemental sulphur [Molten]	ENGEN LTD P O Box 35 8000 CAPE TOWN
	Tel: +27 (0)31 460 3911 Fax: +27 (0)31 460 3000		On Average % Elemental Sulphur (dry basis) 99,8	
			Bulk tankers	Tel: +27 (0)860 036 436 Fax: +27 (0)800 111 002 1call@engenoil.com www.engen.co.za
5.	Group			
	SASOL LTD <b>(Mine Code 2545)</b> P O Box 5486 2000 JOHANNESBURG			
	Tel: +27 (0)11 344 2217 Fax: +27 (0)11 522 1589 www.sasol.com			
5.1	Plant			
	NATREF <b>(Mine Code 2545)</b> P O Box 234 9570 SASOLBURG	Crude oil refining	Elemental sulphur [Granular] [Solid form]	SASOL AGRI P O Box 5486 2000 JOHANNESBURG
	Tel: +27 (0)16 940 9111 Fax: +27 (0)16 940 2503		On Average % Total S > 99,8 Carbon < 0,06 Ash < 0,02 H <sub>2</sub> SO <sub>4</sub> < 0,003	
			Bulk tankers	Tel: +27 (0)11 441 3111 Fax: +27 (0)11 344 2309 www.sasol.com
5.2	Plant			
	SASOL SYNTHETIC FUELS (PTY) LTD (SASOL II & III) <b>(Mine Code 2545)</b> Private Bag X1000 2302 SECUNDA	Synthetic fuel from coal	Elemental sulphur [Powder] [Slabbing]	SASOL AGRI P O Box 5486 2000 JOHANNESBURG
	Tel: +27 (0)17 610 1111 Fax: +27 (0)17 610 2160 www.sasol.com		On Average % Total S > 99,5 Carbon < 0,06 Ash < 0,05	
			<u>Powder sulphur:</u> - Size ranges available on request	Tel: +27 (0)11 441 3111 Fax: +27 (0)11 344 2309 www.sasol.com
			Bulk tankers	

## SULPHURIC ACID

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
1. Group				
ANGLOGOLD ASHANTI LTD P O Box 62117 2107 MARSHALLTOWN				
Tel: +27 11 637 6000 Fax: +27 11 637 6108 www.anglogold.co.za				
1.1 Company / Mine				
VAAL RIVER OPERATIONS <b>(Mine Code 670)</b> P O BOX 8044 2501 WESTERN LEVELS	Underground; crushing Milling, gold treatment, flotation and uranium oxide extraction	Pyrite Conc. Sulphuric acid	<u>Pyrite concentrate:</u> On Average % FeS <sub>2</sub> 56,38 - 63,11  Sizing: < 0,6% +150 µm 2-25% +75 µm 75-97% -75 µm	ANGLOGOLD LTD P O Box 62117 2107 MARSHALLTOWN  Tel: +27 11 637 6000 Fax: +27 11 637 6108 www.anglogold.co.za
<u>Farm, District, Province</u> Witkop 438 IP, Orkney 437 IP Kanana 426 IP, Vaalkop 439 IP Nooigedacht 434 IP Modderfontein 440 IP Goedgenoeg 433 IP KLERKSDORP NORTH-WEST				
2. Group				
ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN				
Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com				
2.1 Mine				
ANGLO PLATINUM – DISHABA MINE <b>(Mine Code 4602)</b> P O Box 2 0362 CHROMITE	Opencast, Underground	Sulphuric acid	On Average %:  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
Tel: +27 (0)14 784 2230 Fax: +27 (0)14 784 2232				



## SULPHURIC ACID

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
<u>Farm, District, Province</u> Elandskuil 378 KQ Haakdoringdrift 374 KQ Middellagte 383 KQ THABAZIMBI LIMPOPO PROVINCE				
2.2	Mine			
BAFOKENG RASIMONE PLATINUM MINE <b>(Mine Code 3199)</b> Private Bag X 82085 0300 RUSTENBURG	Opencast, Underground	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD / ROYAL BAFOKENG PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Farm Boschkoppe 104 JQ RUSTENBURG NORTH WEST				
2.3	Mine			
BATHOPELE MINE <b>(Mine Code 4604)</b> P O Box 1 0292 BLESKOP	Underground	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Waterval 307 JG RUSTENBURG NORTH WEST				
2.4	Mine			
KHOMANANI MINE <b>(Mine Code 4608)</b> P O Box 1 0292 BLESKOP	Underground	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Frank 1 & 2 Shafts RUSTENBURG NORTH WEST				

## SULPHURIC ACID

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
2.5	Mine			
KHUSELEKA MINE <b>(Mine Code 4606)</b> P O Box 1 0292 BLESKOP	Underground	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Boschfontein 268 Rustenburg 272 JQ Town & Townlands RUSTENBURG NORTH WEST				
2.6	Mine			
KHUSELEKA MINE (BOSCHFONTEIN SHAFT) <b>(Mine Code 4784)</b> P O Box 1 0292 BLESKOP	Opencast	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Boschfontein 268 Rustenburg 272 JQ Town & Townlands Rustenburg 272 RUSTENBURG NORTH WEST				
2.7	Mine			
MODIKWA PLATINUM MINE <b>(Mine Code 1255)</b> Private Bag X9120 1129 DRIEKOP	Underground	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Driekop 253 KT; Hendriksplaats 281 KT Maandagshoek 254 KT; Onverwach 292 KT; Winterveld 293 KT RUSTENBURG NORTH WEST				

## SULPHURIC ACID

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
2.8	Mine			
MOGALAKWENA PLATINUM MINE <b>(Mine Code 1526)</b> P O Box 2463 0600 MOKOPANE	Opencast	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Overysel 815 LR ; Sandsloot 235 KR; Schilpadnest 385 KQ ; Zwartfontein 818 LR MOREKONG LIMPOPO PROVINCE				
2.9	Mine			
SIPHUMELELE MINE <b>(Mine Code 4607)</b> P O Box 1 0292 BLESKOP	Underground	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Bleskop Shaft ; Brakspruit 299 JQ; Turffontein 302 JQ RUSTENBURG NORTH WEST				
2.10	Mine			
THEMBELANI MINE <b>(Mine Code 4609)</b> P O Box 1 0292 BLESKOP	Underground	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Paardekraal 279 JQ RUSTENBURG NORTH WEST				

## SULPHURIC ACID

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
2.11 Mine				
TUMELA MINE <b>(Mine Code 4601)</b> P O Box 2 0362 CHROMITE	Opencast; Underground	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Elandsfontein 386 KQ; Middellaagte 383 KQ; Moddergat 389 KQ ; Zwartkop 369 KQ THABAZIMBI LIMPOPO PROVINCE				
2.12 Mine				
TWICKENHAM PLATINUM MINE <b>(Mine Code 3598)</b> Private Bag X1035 1129 DRIEKOP	Surface; Underground	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Hackney 116 KT ; Roka Mashabela 116 KT; Swazi Mnyamane; Ga Makgopa 114 KT THABAZIMBI LIMPOPO PROVINCE				
2.13 Mine				
UNION SECTION SOUTH MINE <b>(Mine Code 0554)</b> Private Bag X351 0370 SWARTKLIP	Surface	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANGLO PLATINUM LTD PO Box 62179 2107 MARSHALLTOWN  Tel: +27 (0)11 373 6111 Fax: +27 (0)11 373 5111 www.angloplatinum.com
<u>Farm, District, Province</u> Brakspruit 299 JQ; Haakdoring 6 JQ; Hoedspruit 298 JQ; Klipfontein 300 JQ; Klipgat 281 JQ; Paardekraal 279 JQ; Rustenburg Townlands 272 JQ;				

## SULPHURIC ACID

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
<p>Turfbult 404 KQ;            Turffontein 302 JQ;            Waterval 303 JQ;            Zwartklip 405 KQ;            Farm 504 KQ            THABAZIMBI            LIMPOPO PROVINCE</p>				
3.	Group			
	<p>ANOORAQ RESOURCES CORPORATION            PO Box 1            0749 ATOK</p> <p>Tel: +27 (0)15 620 0106            Fax: +27 (0) 15 620 0230</p>			
3.1	Mine			
	BOKONI PLATINUM MINES (PTY) LTD <b>(Mine Code 0028)</b> PO Box 1 0749 ATOK	Underground	Sulphuric acid  On average %  H <sub>2</sub> SO <sub>4</sub> 98%	ANOORAQ RESOURCES CORPORATION PO Box 1 0749 ATOK  Tel: +27 (0)15 620 0106 Fax: +27 (0) 15 620 0230
	<p><u>Farm, District, Province</u>            Diamant 422 KS ;            Middelpunt 420 KS;            Umkuanasstad 419 KS;            Zeekoegat 421 KS            SEKHUKHUNELAND            LIMPOPO</p>			
4.	Group			
	<p>AQUARIUS PLATINUM SOUTH AFRICA (PTY) LTD            PO Box 76575            2144 WENDYWOOD</p> <p>Tel: +27 (0)12 001 2001            Fax: +27 (0)12 001 2070</p>			
4.1	Mine			
	KROONDAL MINE <b>(Mine Code 3204)</b> PO Box 624 0350 KROONDAL	Opencast; Underground	Sulphuric acid  On average %  H <sub>2</sub> SO <sub>4</sub> 98%	AQUARIUS PLATINUM SOUTH AFRICA (PTY) LTD PO Box 76575 2144 WENDYWOOD  Tel: +27 (0)12 001 2001 Fax: +27 (0)12 001 2070

## SULPHURIC ACID

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
<u>Farm, District, Province</u> Kroondal 304 JQ RUSTENBURG NORTH WEST				
4.2	Mine			
MARIKANA PLATINUM MINE <b>(Mine Code 3545)</b> PO Box 795 0284 MARIKANA	Opencast	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	AQUARIUS PLATINUM SOUTH AFRICA (PTY) LTD PO Box 76575 2144 WENDYWOOD
Tel: +27 (0)14 536 4039 Fax: +27 (0)86 620 6013				Tel: +27 (0)12 001 2001 Fax: +27 (0)12 001 2070
<u>Farm, District, Province</u> Spruitfontein Road N4 Highway Marikana RUSTENBURG NORTH WEST				
5.	Group			
EXXARO (PTY) LTD PO Box 218 1560 SPRINGS				
Tel: +27 (0)11 812 9524 Fax: +27 (0)12 307 3868 www.exxaro.com				
5.1	Mine			
EXXARO BASE METALS (PTY) LTD <b>(Mine Code 1185)</b> PO Box 218 1560 SPRINGS	Surface	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	EXXARO (PTY) LTD PO Box 218 1560 SPRINGS
Tel: +27 (0)14 536 4039 Fax: +27 (0)86 620 6013				Tel: +27 (0)11 812 9524 Fax: +27 (0)12 307 3868 www.exxaro.com
<u>Farm, District, Province</u> Daggafontein 125 SPRINGS GAUTENG				
6.	Group			
METOREX LTD P O Box X2814 2132 SAXONWOLD				
Tel: +27 (0)11 880 3155 Fax: +27 (0)11 880 3322 www.metorexgroup.com info@metorexgroup.com				

## SULPHURIC ACID

	PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
6.1	Mine				
	MARANDA MINING CO (PTY) LTD <b>(Mine Code 2627)</b> PO Box 2171 0850 TZANEEN	Opencast	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	MARANDA MINING CO (PTY) LTD PO Box 2171 0850 TZANEEN  Tel: +27 (0)15 345 1758 Fax: +27 (0)15 307 1046
	<u>Farm, District, Province</u> Daggafontein 125 SPRINGS GAUTENG				
7.	Group				
	XSTRATA ALLOYS Postnet 46 Private Bag X20097 1120 LYDENBURG				
	Tel: +27 (0)13 230 6661 Fax: +27 (0)13 230 6502 www.xstrata.co.za				
7.1	Mine				
	MOTOTOLO MINE <b>(Mine Code 4082)</b> Postnet 46 Private Bag X20097 1120 LYDENBURG	Underground	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	XSTRATA ALLOYS Postnet 46 Private Bag X20097 1120 LYDENBURG  Tel: +27 (0)13 230 6661 Fax: +27 (0)13 230 6502 www.xstrata.co.za
	<u>Farm, District, Province</u> Thorncliffe 374 KT Ptn 1 LYDENBURG MPUMALANGA				
8.	Group				
	XSTRATA SA (PTY) LTD Private Bag X82288 0300 RUSTENBURG				
	Tel: +27 (0)82 940 3513 Fax: +27 (0)86 512 3999 www.xstrata.co.za				

## SULPHURIC ACID

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
8.1 Mine				
ELAND PLATINUM MINE <b>(Mine Code 4427)</b> Private Bag X82288 0300 RUSTENBURG  Tel: +27 (0)82 940 3513 Fax: +27 (0)86 512 3999 www.xstrata.co.za  <u>Farm, District, Province</u> Elandsfontein 440 JQ BRITS NORTH WEST	Opencast	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	XSTRATA SA (PTY) LTD Private Bag X82288 0300 RUSTENBURG  Tel: +27 (0)82 940 3513 Fax: +27 (0)86 512 3999 www.xstrata.co.za
9. Company / Mine				
PALABORA MINING CO LTD <b>(Mine Code 489)</b> P O Box 65 1390 PHALABORWA  Tel: +27 (0)15 780 2911 Fax: +27 (0)15 780 2055 www.palabora.com  <u>Farm, District, Province</u> Loole 38 LU PHALABORWA LIMPOPO PROVINCE	Opencast, crushing, sizing and winnowing	Sulphuric acid	On average %  H <sub>2</sub> SO <sub>4</sub> 98%	PALABORA MINING CO LTD P O Box 65 1390 PHALABORWA  Tel: +27 (0)15 780 2911 Fax: +27 (0)15 780 2055 www.palabora.com



## TALC

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. Company/Group				
CHAMOTTE HOLDINGS (PTY) LTD P O Box 1064 1685 HALFWAY HOUSE				
Tel: +27 (0)11 805 1916/ 7 Fax: +27 (0)11 805 4164 chamotte@chamotte.co.za				
1.1 Mine				
SCOTIA TALC MINE <b>(Mine Code 0577)</b> P O Box 243 1320 MALELANE	Underground Milling and grading	Scotia Talc Grade PB	On Average % SiO <sub>2</sub> 47,2 MgO 32,3 Al <sub>2</sub> O <sub>3</sub> 0,6 Fe <sub>2</sub> O <sub>3</sub> 4,0 CaO 0,8 LOI 20-27  S.G. 2,73 BD 0,64 g/cm <sup>3</sup> Moisture < 1,2%  Reflectance: 76-88% -79% 80-83% +84%  Sizing: 98% -25µm d <sub>100</sub> -45µm d <sub>50</sub> -9µm d <sub>10</sub> -3µm  40 kg bags 1 ton bulk bags Bulk (by road)	CHAMOTTE HOLDINGS (PTY) LTD P O Box 1064 1885 HALFWAY HOUSE
Tel: +27 (0)13 719 9789 Fax +27 (0)13 719 9703				Tel: +27 (0)11 805 1916/ 7 Fax: +27 (0)11 805 4164 chamotte@chamotte.co.za
<u>Farm, District, Province</u> Bon Accord Stock Farm 282 JU BARBERTON MPUMALANGA		PB Grade Low Grade Standard Grade Superwhite Grade		
2. Company / Plant				
MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK	Value addition only: Crushing, milling & micronizing	Lubmin S	On Average % SiO <sub>2</sub> 55-62 MgO 23-27 Al <sub>2</sub> O <sub>3</sub> 4,0-6,0 Fe <sub>2</sub> O <sub>3</sub> 1,1-4,5 CaO 0,2-0,4 LOI 0,3-1,5 S.G. 2,78  Sizing: 98,4% -75µm Mean size: 10µm  25kg polyprop. bags	MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK
Tel: +27 (0)11 486 1919 Fax: +27 (0)11 486 1928 www.micronized.com info@micronized.com				Tel: +27 (0)11 486 1919 Fax: +27 (0)11 486 1928 www.micronized.com info@micronized.com

## TALC

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
(MICRONIZED PRODUCTS Continued )		Snowtalc Std Snowtalc Ultra	On Average % SiO <sub>2</sub> 62,2 MgO 32,4 Al <sub>2</sub> O <sub>3</sub> 0,0 Fe <sub>2</sub> O <sub>3</sub> 0,2 CaO 0,4 As < 2ppm Zr < 5ppm LOI 4,89  Sizing: 90% -25µm (Std) 99% -25µm (Ultra)	
		Supersilk Std Supersilk Ultra	On Average % CaO < 0,6 Fe <sub>2</sub> O <sub>3</sub> < 250ppm Cl < 180ppm  S.G. 2,8 pH 7,7 Moisture <1  Sizing: 98% -75µm (Std) 86% -10µm (Ultra) Mean: 3µm (Ultra)  25kg polyprop. bags	
3. Group				
G & W BASE & INDUSTRIAL MINERALS (PTY) LTD P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 878 0300 Fax:+27 (0)11 824 2721 www.gwbase.co.za				
3.1 Mine				
MASALA TALC MINE <b>(Mine Code 0219)</b> P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 878 0343 Fax:+27 (0)86 682 11 824 2721  <u>Farm, District, Province</u> Bothashoop 521 IT PIET RETIEF MPUMALANGA	Opencast, crushing, milling & sizing	Talc Products Applications: Ceramics, agri- products, fillers, extenders, ad- hesives, water- proofing.  Sericil Talc TSF	On Average % SiO <sub>2</sub> 60-70 Al <sub>2</sub> O <sub>3</sub> 20-30 CaO 0,2-0,3 Fe <sub>2</sub> O <sub>3</sub> 0,1-0,2 TiO <sub>2</sub> 0,2-0,8 LOI 2,5-4,5  Sizing: 99% -53µm BD 0,6-0,7gcm <sup>-3</sup> Reflectance 76-80 Oil absorption 30 pH 7,4	G & W BASE & INDUSTRIAL MINERALS (PTY) LTD P O Box 14052 1422 WADEVILLE  Tel: +27 (0)11 878 0300 Fax:+27 (0)11 824 2721 www.gwbase.co.za  Western Cape PROTEA INDUSTRIAL CHEMICALS (PTY) LTD

## TALC

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
(G & W BASE & INDUSTRIALS continued)			40 kg bags 500kg bulk bags 1 ton bulk bags	P O Box 4535 8000 CAPE TOWN
		Sericil Talc <i>TAP</i>	Sizing: 99% -53µm BD 0,6-0,7gcm <sup>-3</sup> Reflectance > 65 Oil absorption 30 pH 7,4	Tel: +27 (0)21 550 8100 Fax: +27 (0)21 550 8180 www.prochem.co.za
			40 kg bags 1 ton bulk bags	KwaZulu-Natal PROTEA INDUSTRIAL CHEMICALS (PTY) LTD P O Box 12243 4026 JACOBS
		Sericil 5	Sizing: 99% -30µm Reflectance 76-80 pH 7,4  25 kg paper bags	Tel: +27 (0)31 468 5424 Fax: +27 (0)31 468 5429 www.prochem.co.za
4. Group				
INGWE MICA INDUSTRIES (PTY) LTD PRIVATE BAG X3011 1390 PHALABORWA				
Tel: +27 (0)15 793 1880 Fax: +27 (0)15 793 1890 sales@ingwemica.co.za				
4.1 Company / Mine				
GELLETICH MINING INDUSTRIES/ MARBLE BATH MINE <b>(Mine Code 0384)</b>	Underground quarrying and surface mining, crushing	Lumpy/ Cob talc	ROM  Bulk	INGWE MICA INDUSTRIES (PTY) LTD PRIVATE BAG X3011 1390 PHALABORWA
Private Bag X3011 1390 PHALABORWA				Tel: +27 (0)15 793 1880 Fax: +27 (0)15 793 1890 sales@ingwemica.co.za
Tel: +27 (0)15 793 1880 Fax: +27 (0)15 793 1890 gelmine@mweb.co.za				
<u>Farm, District, Province</u> Inyoku 159 KT Hoofpyn 269 Kt PHALABORWA LIMPOPO PROVINCE				

## VERMICULITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
1. Company/Plant				
INSUTECH (PTY) LTD 7 Pillans Street, Chamdor 1743 KRUGERSDORP	Value addition only: exfoliating and sizing	Exfoliated vermiculite products	On Average % SiO <sub>2</sub> 39,37 MgO 23,37 Al <sub>2</sub> O <sub>3</sub> 12,08 Fe <sub>2</sub> O <sub>3</sub> 5,45 TiO <sub>2</sub> 1,25 CaO 1,46	INSUTECH (PTY) LTD 7 Pillans Street, Chamdor 1743 KRUGERSDORP
Tel: +27 (0)11 762 7307 Fax: +27 (0)11 762 7308 insut@telkomsa.net	<u>Crude vermiculite</u> <u>from:</u> Palabora Mining Co.		pH 6-9 ST < 1250°C C.E.C. 50-150me/100g	Tel: +27 (0)11 762 7307 Fax: +27 (0)11 762 7308 Insut@telkomsa.net
			Sizing:	
		Medium Vercex	> 95% 1-2 mm	
		Fine Vercex	> 90% 0,71-1 mm	
		Superfine Vercex	> 95% 180 - 355µm	
		Vercex Micron	> 74% -180µm	
			Loose BD (kg/m <sup>3</sup> ) :	
		Medium Vercex	60-90	
		Fine Vercex	70-110	
		Superfine Vercex	80-150	
		Vercex Micron	110-250	
			<u>Packaging:</u> 8,9 & 10 bags, 100 & 150kg bulk bags 7 ton loose bulk in container	
2. Company/Plant				
MANDOVAL VERMICULITE (PTY) LTD P O Box 124114 1451 ALRODE	Value addition only: exfoliating and sizing	Exfoliated vermiculite products	On Average % SiO <sub>2</sub> 39,37 MgO 23,37 Al <sub>2</sub> O <sub>3</sub> 12,08 Fe <sub>2</sub> O <sub>3</sub> 5,45 TiO <sub>2</sub> 1,25 P <sub>2</sub> O <sub>5</sub> 0,15	MANDOVAL VERMICULITE (PTY) LTD P O Box 124114 1451 ALRODE
Tel: +27 (0)11 864 5205 Fax: +27 (0)11 908 3049 mandoval@mandoval.co.za	<u>Crude vermiculite</u> <u>from:</u> Palabora Mining Co.			Tel: +27 (0)11 864 5205 Fax: +27 (0)11 908 3049 mandoval@mandoval.co.za
		VICAFIL - Large	Mean Size: 8 mm Grit < 10% Loose BD (packed): < 85 kg/m <sup>3</sup>	
		VICAFIL - Medium	Mean Size: 4 mm Grit < 10% Loose BD (packed): < 90 kg/m <sup>3</sup>	
		VICAFIL - Fine	Mean Size: 2 mm Grit < 15% Loose BD (packed): < 112 kg/m <sup>3</sup>	

## VERMICULITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
(MANDOVAL VERMICU- LITE continued)		VICAFIL - Micron	Mean Size: 0,5 mm Grit < 15% Loose BD (packed): < 125 kg/m <sup>3</sup>	
		VICAFIL - Superfine	Mean Size: 1 mm Grit < 15% Loose BD (packed): < 122 kg/m <sup>3</sup>  <u>Packaging:</u> 7,8,9 & 10 kg polyprop. bags	
3. Company / Plant				
MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax: +27 (0)11 486 1928 www.micronized.com info@micronized.com	Micronizing & milling	Vermiculite products  MCX SFX FNX MDX LRX  MCF PLV-150 PL-20  MCX SFX FNX MDX LRX  MCF PLV-150 PL-20	On Average % SiO <sub>2</sub> 39,37 MgO 23,37 Al <sub>2</sub> O <sub>3</sub> 12,08 Fe <sub>2</sub> O <sub>3</sub> 5,45 TiO <sub>2</sub> 1,25 H <sub>2</sub> O 11,26  Mean size: 0,5mm 1mm 2mm 4mm 8mm  95% -430µm 95% -250µm 98% -75µm  Loose BD in g/l: 100 100 90 80 70  812 259 370-510  pH 7,0 - 9,0 S.G. 2,3-2,7 ST 1 260°C MP 1 315°C  7-12 kg paper bags 25kg polyprop bags 50 kg plastic bags	MICRONIZED PRODUCTS (PTY) LTD P O Box 91575 2006 AUCKLAND PARK  Tel: +27 (0)11 486 1919 Fax: +27 (0)11 486 1928 www.micronized.com info@micronized.com

## VERMICULITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/ SPECIFICATIONS	MARKETING
4. Company / Mine	Opencast, crushing, sizing and winnowing	Crude Vermiculite	On Average % <u>See Table below</u>  Sizing: <u>See Table below</u>	PALABORA MINING CO LTD – VERMICULITE BUSINESS (VB) P O Box 65 1390 PHALABORWA  Tel: +27 (0)15 780 3704 Fax:+27 (0)15 780 7275 www.palabora.com
<u>Farm, District, Province</u> Loole 38 LU Wegsteek 30 LU PHALABORWA LIMPOPO PROVINCE				

**CHEMICAL ANALYSIS OF VERMICULITE CONCENTRATE (Palabora)**

CONSTITUENTS	AVERAGE %	TECHNICAL DATA	
SiO <sub>2</sub>	38,00	Sintering Temp.	± 1 260°C
Al <sub>2</sub> O <sub>3</sub>	8,00	Melting Temp.	± 1 315°C
MgO	23,50	Specific Heat	0.2
Fe <sub>2</sub> O <sub>3</sub>	7,75	S.G.	2.5-2.6
K <sub>2</sub> O	4,50	PH	8.5-10
CaO	4,00	LOI	10,70
CO <sub>2</sub>	1,55	Moisture	4,5%
TiO <sub>2</sub>	1,00	C.E.C (in meq / 100g)	90-100
P <sub>2</sub> O <sub>5</sub>	0,09	Vermiculite is incombustible, insoluble, non-abrasive, rot-proof, odourless, mouldable, non-irritant.	
Cr <sub>2</sub> O <sub>3</sub>	0,03	Packaging: 1 ton bags, containers, bulk	
F	0,53		
Cl	0,01		
Subtotal	88,96		
Other	11,04		
Total	100,00		

**SIZE ANALYSIS OF VERMICULITE PRODUCED BY V.B. - PALABORA MINING CO. LTD**

Particle Size Range		GRADE (Number & Product name)						
		4	3	2	1	0	5	6
		LARGE	MEDIUM	FINE	SUPERFINE	MICRON	MICRA	RSU
Minimum % By weight retained in screen range	-8,00mm +2,80mm	80						
	-4,00mm +1,40mm		80					
	-2,00mm +710µm			80				
	-1,00mm +355µm				80			
	-710µm +250µm					80		
	-500µm +250µm						70	
	-500µm +180µm							70
	Max.% by weight passing*	355µm	2	2	2	10		
	180µm				2	10	10	>20

Note: \* Screen undersize

^ Non exfoliating content and Yield have been omitted

## ZEOLITE

PRODUCER	TYPE OF OPERATION	PRODUCT	ANALYSIS/SPECIFICATIONS	MARKETING
1. Group				
PRATLEY PERLITE MINING CO. (PTY) LTD P O Box 3055 1745 KENMARE				
Tel: +27 (0)11 955 2190/ 8 Fax: +27 (0)11 955 3918 www.pratley.com				
1.1 Mine				
PRATLEY NXWALA MINE <b>(Mine Code 0095)</b> Sodwana Bay Road 3960 HLUHLUWE	Opencast; crushing, screening & expansion	Natural zeolite Clinoptilolite Expanded Perlite Pretreated Perlite Perlite	On Average % SiO <sub>2</sub> 71,52 Al <sub>2</sub> O <sub>3</sub> 12,10 K <sub>2</sub> O 3,85 Na <sub>2</sub> O 1,40 CaO 1,53 MgO 0,86 TiO <sub>2</sub> 0,13 Fe <sub>2</sub> O <sub>3</sub> 1,21	PRATLEY POLYMERS (PTY) LTD P O Box 3055 1745 KENMARE
<u>Farm. District, Province</u> Nxwala Estates UBOMBO KWAZULU/NATAL		Applications: Insulation, horticulture, water puri-fier, feed additive, slag conditioner, deodourizer	Sizing: -0,5mm 0,5-1mm 1-2mm 1-3mm 2-4mm 4-6mm 6-10mm 10-20mm	Tel: +27 (0)11 955 2190/ 8 Fax: +27 (0)11 955 3918 www.pratley.com pratley@pratley.com
		Pratley Vulture Creek Clino [Clinoptilolite]	S.G. 2,2g/cm <sup>3</sup> H 3,5-4,0 BD (ore) 1,92 g/cm <sup>3</sup> BD** 0,99 kg/m <sup>3</sup> CEC < 1,8 meq/g. Whiteness: 80%	
			Note ** 60-20# zeolite, packed	
		Ion Exchanged Clino	Sizing: 2-4mm 0,5-4mm	
		Pratley Clinomix	N/A	
			All products packaged in 10kg polyprop bags	



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Department of Energy Private Bag X96 0001 Pretoria	<a href="http://www.doe.gov.za">www.doe.gov.za</a>	Cnr Visagie & Paul Kruger Streets Pretoria  Tel: +27 (0)12 406 8000 / 7300 Fax: +27 (0)12 406 7788
Department of Environmental Affairs Private Bag X447 0001, Pretoria	<a href="http://www.environment.gov.za">www.environment.gov.za</a>	Fedsure Forum Building North Tower Cnr Lilian Ngoyi & Pretorius Streets  Tel: +27 (0)12 310 3911 Fax: +27 (0)12 322 2682
Department of Rural Development and Land Reform Private Bag X 833 0001, Pretoria	<a href="http://www.ruraldevelopment.gov.za">www.ruraldevelopment.gov.za</a>	Cnr Jeff Masemola & Paul Kruger Street Pretoria  Tel: +27 (0)12 312 8911 Fax: +27 (0)12 312 8066
Department of Science and Technology Private Bag X894 0001, Pretoria	<a href="http://www.dst.gov.za">www.dst.gov.za</a>	CSIR Campus (Southgate Entrance) Meiring Naude Road, Brummeria Pretoria  Tel: +27 (0)12 843 6300 / 6671
Department of Trade and Industry Private Bag X84 0001 Pretoria	<a href="http://www.thedti.gov.za">www.thedti.gov.za</a>	DTI Campus – Block E Cnr Robert Sobukwe & Meintjies Streets Sunnyside, Pretoria  Tel: +27 (0)86 184 3384 Telefax: +27 (0)12 394 4612 / 0517 +27 (0)86 184 3888
Department of Water Affairs	<a href="http://www.dwaf.co.za">www.dwaf.co.za</a>	Sedibeng Building 185 Francis Baard Street Pretoria  Tel: +27 (0)12 336 7500 Fax: +27 (0)12 324 6592
Statistics South Africa Private Bag X44 0001, Pretoria	<a href="http://www.statssa.gov.za">www.statssa.gov.za</a>	170 Thabo Sehume Street De Bruyn Park Pretoria  Tel: +27 (0)12 310 8911 Fax: +27 (0)12 310 8500 / 8495

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CSIR P O Box 395 0001 Pretoria	<a href="http://www.csir.co.za">www.csir.co.za</a>	Meiring Naude Road Brummeria Pretoria, 0184  Tel: +27 (0)12 841 2911 Telefax: +27 (0)12 349 1153
CSIR – Mining Technology (Miningtek) P O Box 91230 2006 Auckland Park	<a href="http://www.csir.co.za/miningtek">www.csir.co.za/miningtek</a>	Cnr Carlow & Rustenburg Avenue Mellville, Johannesburg  Tel: +27 (0)11 358 0000 Telefax: +27 (0)11 726 5405
Eskom P O Box 1091 2000 Johannesburg	<a href="http://www.eskom.co.za">www.eskom.co.za</a>	Megawatt Park Maxwell-Drive Sunninghill Ext 3 Sandton  Tel: +27 (0)11 800 8111 Telefax: +27 (0)11 800 4299
Mine Health and Safety Council Private Bag X63 2017 Braamfontein	<a href="http://www.mhsc.org.za">www.mhsc.org.za</a>	2 <sup>nd</sup> Floor Braamfontein Centre 23 Jorissen Street Braamfontein, Johannesburg  Tel: +27 (0)11 358 9180 Fax: +27 (0)11 403 1821
Mining Qualifications Authority Private Bag X 118 2107 Marshalltown	<a href="http://www.mqa.org.za">www.mqa.org.za</a>	4 <sup>th</sup> Floor Union Corporation Building 74-78 Marshall Street Marshalltown, Johannesburg  Tel: +27 (0)11 832 1022 Fax: +27 (0)11 832 1027
Mintek Private Bag X3015 2125 Randburg	<a href="http://www.mintek.co.za">www.mintek.co.za</a>	200 Malibongwe Drive Randburg  Tel: +27 (0)11 709 4111 Telefax: +27 (0)11 793 2413

Petro SA  
Private Bag X5  
7499 Parow

[www.petrosa.co.za](http://www.petrosa.co.za)

151 Frans Conradie Drive  
Cape Town 7500

Tel: +27 (0)21 929 - 3000  
Telefax: +27 (0)21 929 - 3144

NECSA  
P O Box 582  
0001 Pretoria

[www.necsa.co.za](http://www.necsa.co.za)

Church Street, West Extension  
Pelindaba, Brits District

Tel: +27 (0)12 305 4911  
Telefax: +27 (0)12 305 3111

South African Agency for Promotion of  
Petroleum Exploration and Exploitation (Pty) Ltd  
Petroleum Agency SA  
PO Box 1174  
7499 Parow

[www.petroleumagency.com](http://www.petroleumagency.com)

Petroleum House  
15 Frans Conradie Drive  
Parow, Cape Town

Tel: +27 (0)21 938 3500  
Telefax: +27 (0)21 938 3520

The Industrial Development Corporation of SA Ltd  
(IDC)  
P O Box 784055  
2146 Sandton

[www.idc.co.za](http://www.idc.co.za)

19 Fredman Drive  
Sandton

Tel: +27 (0)11 269 3000  
Telefax: +27 (0)11 269 3116

South African Diamond and Precious Metals Regulator  
P O Box 16001  
2028 Doornfontein

[www.sadpmr.co.za](http://www.sadpmr.co.za)

5th Floor, Office 501  
S A Diamond Centre  
225 Corner Main & Phillip Street  
Johannesburg

Tel: +27 (0)11 334 8980 / 6  
Telefax: +27 (0)11 334 8898

National Nuclear Regulator  
PO Box 7106  
0046 Centurion

[www.nnr.co.za](http://www.nnr.co.za)

Tel: +27 (0)12 674 7100  
Telefax: +27 (0)12 663 5513

State Diamond Trader  
Suite 510, 5<sup>th</sup> Floor  
SA Diamond Centre  
225 Main Street  
Johannesburg

[www.statediamondtrader.gov.za](http://www.statediamondtrader.gov.za)

Tel: +27 (0)11 334 2691  
Telefax: +27 (0)11 334 1540

**OTHER MINERAL-RELATED ORGANISATIONS**

Aggregate and Sand Producers Association of  
South Africa (ASPASA)  
PO Box 61809 [www.aspasa.co.za](http://www.aspasa.co.za)  
2107 Marshalltown

Chamber of Mines Building  
5 Hollard Street Cornpark  
Marshalltown, Johannesburg

Tel: +27 (0)11 498 7265  
Telefax: +27 (0)11 498 7269

Chamber of Mines of South Africa  
PO Box 61809 [www.bullion.org.za](http://www.bullion.org.za)  
2107 Marshalltown

Cnr Sauer & 71 Marshall Street  
Marshalltown, Johannesburg

Tel: +27 (0)11 498 7100  
Telefax: +27 (0)11 834 1884

Copper Development Association (Pty) Ltd  
P O Box 14785 [www.copper.co.za](http://www.copper.co.za)  
1422 Wadeville

53 Rendell Road  
Wadeville, Germiston

Tel: +27 (0)11 824 3712  
Telefax: +27 (0)11 824 3120

Federation of SA Gem & Mineralogical Societies  
P O Box 17273 [www.fosagams.co.za](http://www.fosagams.co.za)  
0027 Groenkloof

30 Van Wouw Street  
Groenkloof, Pretoria

Tel: +27 (0)12 345 3939

Ferro Alloy Producers Association (FAPA)  
P O Box 1338 [www.seissa.co.za](http://www.seissa.co.za)  
2000 Johannesburg

Metal Industries House  
42 Anderson Street  
Johannesburg

Tel: +27 (0)11 298 9400  
Telefax: +27 (0)11 298 9500

South African Mining Development Association (SAMDA)  
PO Box 2057 [www.samda.co.za](http://www.samda.co.za)  
2121, Parklands

The Riviera Road  
606 Oxford corner North Avenue  
Ground Floor, Block 3, Office 2  
2196, Rosebank

Tel: +27 (0)11 486 0510  
Telefax: +27 (0)11 486 3194

