

VASTTRADEZI'S

# KAOLIN / CHINA CLAY



**Vasttradezi**

Our Passion For Your Satisfaction



PRODUCT  
PROFILE

“  
OUR  
PASSION  
FOR  
YOUR  
SATISFACTION  
”

PRESENTED BY  
**VASTTRADEZI LLP**

# INTRODUCTION

Kaolin is a deposit of naturally occurring minerals comprising hydrated aluminum silicate. These minerals, commonly known as white clay or china clay, have favorable qualities that make them ideal for industrial and commercial purposes. As a result, the kaolin mining and processing procedures take the nature of the crude resources and the final use of the products into account.

## China Clay Mining and Processing Steps:

### 1. The Mining Stage.

The mining stage involves extracting deposits from their natural mineral settings. It usually comprises the drilling method used in open-pit or underground mining. Mining equipment includes electro-diesel shovels and massive draglines.

Trucks will load the extracted mineral reserves and deliver them to processing facilities. Otherwise, the draglines will drop them right into the blunger (portable blunger).

### 2. The Process Stages

Following the mining stage, the kaolin will undergo additional processing phases, either dry or wet.

## Market Experience & Export Track Record:

Experiences : +39 year in mining business

Export : +700 to 2000 M.T. / Month

Major Industry Where We Are Trusted Vendor: sanitary ware , ceramic tile, paint, pottery products, cooling pad, Etc...

## VASTTRADEZI's infrastructure

Manufacturing Units:

- 1) Automatic Electromagnet Unit : 01
- 2) Processing Units : 08
- 3) Mine Area: 20 Hector of approved land & 10 Hector of reserve land

## + Point of VASTTRADEZI

Own mining and processing units

Own infrastructure

Trusted and skilled employed

Inhouse Q.C. team, Research and development team

Trusted partner in logistic/Exim solution

## Production Capacity:

Raw Kaolin : +5000 M.T. / Month

Process Kaolin Clay : +3500 M.T. / Month



Mining 1



Mining 2



Processing





# KAOLIN APPLICATION:



CERAMICS INDUSTRY



GLASS INDUSTRY



PAPER INDUSTRY



PAINT INDUSTRY



RUBBER INDUSTRY



PLASTICS INDUSTRY



INK INDUSTRY



PORTLAND CEMENT INDUSTRY



CATALYSTS INDUSTRY



COSMETIC INDUSTRY

PRODUCT NAME : KAOLIN (DC-01)  
ITEM FORM : POWDER  
MESH : 1000  
DATE OF RECEIVED : 23.01.2024  
ORIGIN COUNTRY : INDIA  
HS CODE : 25070022



### Chemical Analysis (Wet Process)

<u>CHEMICAL COMPOUNDS</u>	<u>RESULT %</u>
SiO <sub>2</sub> %	47.45
Al <sub>2</sub> O <sub>3</sub> %	36.97
Fe <sub>2</sub> O <sub>3</sub> %	0.22
TiO <sub>2</sub> %	0.19
CaO %	0.41
MgO %	0.16
K <sub>2</sub> O %	0.03
Na <sub>2</sub> O %	0.34
Loss On Ignition %	14.20

### Physical Properties

<u>NAME OF TEST</u>	<u>RESULT %</u>
Water Of Plasticity	35.80
Dry MOR Kg/cm <sup>2</sup>	9.12
Fired MOR (Temp At 1200 C) Kg/cm <sup>2</sup>	65.47
Shrinkage (Temp At 1200 C)	4.42
T.D.S. (20% Aquous Soln.) ppm	180
W.A. (Temp At 1200 C)	22.57
L*	95.3
A*	0.3
B*	3.9
Whiteness	89.1

\*\* The figures given in the data sheet are mean representative values. Due to minerals being natural product, the specification in this data sheet may not be treated as warranty.

#### VASTTRADEZI LLP

Address: Shop No. 44, Royal Heights, Vaishnadevi Cross Road, SP Ring Road, Khodiyar, Ahmedabad-382421, Gujarat, India.

Branch Office: Survey No. 39, Plot No. 2, Everest Ceramic Zone, Behind Akash Ceramic, Lalpar, Morbi-363642, Gujarat, India.

IEC No.: AAUFV9132E, GST No.: 24AAUFV9132E1ZU, CIN / LLP Identification Number: AAZ-3504

|M| +917096561609 |M| +919998883419 |E| info@vasttradezi.com |W| www.vasttradezi.com



PRODUCT NAME : KAOLIN (VT-09)  
ITEM FORM : NODDLES / LUMPS  
COLOR : WHITE  
DATE OF RECEIVED : 05.02.2024  
ORIGIN COUNTRY : INDIA  
HS CODE : 25070022



### Chemical Analysis (Wet Process)

<u>CHEMICAL COMPOUNDS</u>	<u>RESULT %</u>
SiO <sub>2</sub> %	48.69
Al <sub>2</sub> O <sub>3</sub> %	36.24
Fe <sub>2</sub> O <sub>3</sub> %	0.21
TiO <sub>2</sub> %	0.15
CaO %	0.57
MgO %	0.19
K <sub>2</sub> O %	0.04
Na <sub>2</sub> O %	0.24
Loss On Ignition %	13.60

### Physical Properties

<u>NAME OF TEST</u>	<u>RESULT %</u>
Water Of Plasticity	35.20
Dry MOR	16.82 Kg/cm <sup>2</sup>
Fired MOR (Temp At 1200 C)	95.38 Kg/cm <sup>2</sup>
Shrinkage (Temp At 1200 C)	3.18
T.D.S. (20% Aquous Soln.)	160 ppm
W.A. (Temp At 1200 C)	19.75
L*	95.10
a*	0.5
b*	4.8
Whiteness	84.50

\*\* The figures given in the data sheet are mean representative values. Due to minerals being natural product, the specification in this data sheet may not be treated as warranty.

#### VASTTRADEZI LLP

Address: Shop No. 44, Royal Heights, Vaishnadevi Cross Road, SP Ring Road, Khodiyar, Ahmedabad-382421, Gujarat, India.

Branch Office: Survey No. 39, Plot No. 2, Everest Ceramic Zone, Behind Akash Ceramic, Lalpar, Morbi-363642, Gujarat, India.

IEC No.: AAUFV9132E, GST No.: 24AAUFV9132E1ZU, CIN / LLP Identification Number: AAZ-3504

|M| +917096561609 |M| +919998883419 |E| info@vasttradezi.com |W| www.vasttradezi.com

PRODUCT NAME : KAOLIN (VTN-WP)  
ITEM FORM : LUMPS  
COLOR : WHITE  
DATE OF RECEIVED : 04.02.2024  
ORIGIN COUNTRY : INDIA  
HS CODE : 25070022



<b>Chemical Analysis (Wet Process)</b>	
<u>CHEMICAL COMPOUNDS</u>	<u>RESULT %</u>
SiO <sub>2</sub> %	51.08
Al <sub>2</sub> O <sub>3</sub> %	32.95
Fe <sub>2</sub> O <sub>3</sub> %	1.32
TiO <sub>2</sub> %	1.85
CaO %	0.28
MgO %	0.17
K <sub>2</sub> O %	0.12
Na <sub>2</sub> O %	0.17
Loss On Ignition %	11.91
<b>Physical Properties</b>	
<u>NAME OF TEST</u>	<u>RESULT %</u>
Water Of Plasticity	33.4
Dry MOR	Lamination
Fired MOR (Temp At 1200 C)	110.6
Shrinkage (Temp At 1200 C)	6.98
T.D.S. (20% Aquous Soln.)	380 ppm
Residue (# 300) %	0.73
W.A. (Temp At 1200 C)	15.43
L*	86.53
a*	1.83
b*	5.01
Whiteness	69

\*\* The figures given in the data sheet are mean representative values. Due to minerals being natural product, the specification in this data sheet may not be treated as warranty.

#### **VASTTRADEZI LLP**

Address: Shop No. 44, Royal Heights, Vaishnadevi Cross Road, SP Ring Road, Khodiyar, Ahmedabad-382421, Gujarat, India.

Branch Office: Survey No. 39, Plot No. 2, Everest Ceramic Zone, Behind Akash Ceramic, Lalpar, Morbi-363642, Gujarat, India.

IEC No.: AAUFV9132E, GST No.: 24AAUFV9132E1ZU, CIN / LLP Identification Number: AAZ-3504

|M| +917096561609 |M| +919998883419 |E| info@vasttradezi.com |W| www.vasttradezi.com

PRODUCT NAME : KAOLIN (VTR-110)  
ITEM FORM : NODDLES / LUMPS  
ORIGIN COUNTRY : INDIA  
HS CODE : 25070022



PARAMETERS	RESULT
Loss Of Ignition	10.85
Silicon Dioxide (SiO <sub>2</sub> ) %	51.62
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> ) %	1.53
Aluminium Oxide (Al <sub>2</sub> O <sub>3</sub> ) %	33.77
Potassium Oxide (K <sub>2</sub> O) %	0.21
Sodium Oxide (Na <sub>2</sub> O) %	0.14
Calcium Oxide (CaO) %	Trace
Magnesium Oxide (MgO) %	0.29
Titanium Dioxide (TiO <sub>2</sub> ) %	1.32
Firing Whiteness	63.00
L-Value	87.71
A-Value	1.72
B-Value	11.70
Firing Color	Pinkish
Shrinkage %	9.00
Fired Temperature °C	1220
Residue on 325#	1.08
Water Of Plasticity %	41.00
Water Absorption %	15.81
Dry M.O.R. kg/cm <sup>2</sup>	10.00
Fired MOR kg/cm <sup>2</sup>	110.00

\*\* The figures given in the data sheet are mean representative values. Due to minerals being natural product, the specification in this data sheet may not be treated as warranty.

#### **VASTTRADEZI LLP**

Address: Shop No. 44, Royal Heights, Vaishnadevi Cross Road, SP Ring Road, Khodiyar, Ahmedabad-382421, Gujarat, India.

Branch Office: Survey No. 39, Plot No. 2, Everest Ceramic Zone, Behind Akash Ceramic, Lalpar, Morbi-363642, Gujarat, India.

IEC No.: AAUFV9132E, GST No.: 24AAUFV9132E1ZU, CIN / LLP Identification Number: AAZ-3504

|M| +917096561609 |M| +919998883419 |E| info@vasttradezi.com |W| www.vasttradezi.com

PRODUCT NAME : KAOLIN (VTSM-295)  
ITEM FORM : LUMPS/NOODLE  
COLOR : WHITE  
DATE OF RECEIVED : 13.01.2024  
ORIGIN COUNTRY : INDIA  
HS CODE : 25070022



### Chemical Analysis (Wet Process)

<u>CHEMICAL COMPOUNDS</u>	<u>RESULT %</u>
SiO <sub>2</sub> %	49.87
Al <sub>2</sub> O <sub>3</sub> %	35.31
Fe <sub>2</sub> O <sub>3</sub> %	0.23
TiO <sub>2</sub> %	0.18
CaO %	0.38
MgO %	0.15
K <sub>2</sub> O %	0.05
Na <sub>2</sub> O %	0.42
Loss On Ignition %	13.32
Physical Properties	
<u>NAME OF TEST</u>	<u>RESULT %</u>
Water Of Plasticity	34.70
Dry MOR	12.13 Kg/cm <sup>2</sup>
Fired MOR (Temp At 1200 C)	74.11 Kg/cm <sup>2</sup>
Shrinkage (Temp At 1200 C)	3.52
T.D.S. (20% Aquous Soln.)	171 ppm
W.A. (Temp At 1200 C)	21.94
L*	94.9
a*	0.3
b*	3.6
Whiteness	87.7

\*\* The figures given in the data sheet are mean representative values. Due to minerals being natural product, the specification in this data sheet may not be treated as warranty.

#### VASTTRADEZI LLP

Address: Shop No. 44, Royal Heights, Vaishnadevi Cross Road, SP Ring Road, Khodiyar, Ahmedabad-382421, Gujarat, India.

Branch Office: Survey No. 39, Plot No. 2, Everest Ceramic Zone, Behind Akash Ceramic, Lalpar, Morbi-363642, Gujarat, India.

IEC No.: AAUFV9132E, GST No.: 24AAUFV9132E1ZU, CIN / LLP Identification Number: AAZ-3504

|M| +917096561609 |M| +919998883419 |E| info@vasttradezi.com |W| www.vasttradezi.com



PRODUCT NAME : KAOLIN (VTSN-195)  
ITEM FORM : LUMPS  
COLOR : WHITE  
DATE OF RECEIVED : 17.01.2023  
ORIGIN COUNTRY : INDIA  
HS CODE : 25070022



<b>Chemical Analysis (Wet Process)</b>	
<u>CHEMICAL COMPOUNDS</u>	<u>RESULT %</u>
SiO <sub>2</sub> %	50.04
Al <sub>2</sub> O <sub>3</sub> %	35.34
Fe <sub>2</sub> O <sub>3</sub> %	0.19
TiO <sub>2</sub> %	0.16
CaO %	0.35
MgO %	0.16
K <sub>2</sub> O %	0.10
Na <sub>2</sub> O %	0.38
Loss On Ignition %	13.18
<b>Physical Properties</b>	
<u>NAME OF TEST</u>	<u>RESULT %</u>
Water Of Plasticity	35.80
Dry MOR	11.02 Kg/cm <sup>2</sup>
Fired MOR (Temp At 1200 C)	63.45 Kg/cm <sup>2</sup>
Shrinkage (Temp At 1200 C)	2.97
T.D.S. (20% Aquous Soln.)	159 ppm
W.A. (Temp At 1200 C)	23.05
L*	94.2
a*	0.3
b*	4.1
Whiteness	85.3

\*\* The figures given in the data sheet are mean representative values. Due to minerals being natural product, the specification in this data sheet may not be treated as warranty.

#### **VASTTRADEZI LLP**

Address: Shop No. 44, Royal Heights, Vaishnadevi Cross Road, SP Ring Road, Khodiyar, Ahmedabad-382421, Gujarat, India.

Branch Office: Survey No. 39, Plot No. 2, Everest Ceramic Zone, Behind Akash Ceramic, Lalpar, Morbi-363642, Gujarat, India.

IEC No.: AAUFV9132E, GST No.: 24AAUFV9132E1ZU, CIN / LLP Identification Number: AAZ-3504

|M| +917096561609 |M| +919998883419 |E| info@vasttradezi.com |W| www.vasttradezi.com