



CK ENTERPRISE

— All Type Of Ceramic Raw
Material Supplier —

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CK ENTERPRISE

About Us

CK Enterprise company is a ceramic raw materials providing company, having its presence since 1999, located in Morbi, Gujarat. The only purpose of establishing this company is to supply excellent raw material to a progressively flourishing ceramic industry in the utmost customer-oriented manner along with the growth of the ceramic industry, trade and reputation of CK Enterprise have enlarged. To fulfill our clients' growing requirements, we came up with an expansion plan which possesses a wide range of quality raw material and professionalism in business. Hence, in the present times, we offer a well and polished rounded choice of materials & tools for ceramic tiles and sanitary ware manufacturer.

MISSION

Our mission is to keep providing all quality of raw materials which would become a shield to our clients and protect them from every hitch. Alongside, spreading our wings into the international market to promote research for continuously better performance.

QUALITY

We provide outstanding products and unsurpassed service together and deliver premium value to our clients.

TRUST & PASSION

Our journey of 25 years is a live example of credibility we hold in the market. We are passionate to excel from end to end quality and delight our clients to enjoy their work.

—ZIRCON FLOUR TECHNICAL DATA SHEET—

(FOR: Engobe & Glaze Compound)

Super High Quality, High Whiteness, High Shrinkage.



Use in Ceramic Glaze & Engobe : GVT Tiles, Wall Tiles, Floor Tiles, Porcelain Tiles, Glazed & Engobe Compound. T.R. Compound, Opaque Compound, Matt Compound.

Use in Ceramic Vitrified Tiles Body : Double Charge Vitrified Tiles, GVT Vitrified Tiles, Slab Tiles Body, Nano Vitrified Tiles.

Packing : 50 Kgs. Bag (Woven Bag with Liner)

GUARANTEED	
Name of Test	Result
$\text{ZrO}_2 + \text{HfO}_2$	65%min
Fe_2O_3	0.10% max
TiO_2	0.10% max

TYPICAL	
$\text{ZrO}_2 + \text{HfO}_2$	65.50%
Fe_2O_3	0.08 %
TiO_2	0.10 %
Moisture	0.50 %
Mesh	325 (Mesh All Pass)

POTASH FELDSPAR POWER

(FOR: Engobe & Glaze Compound)
Super High Quality, High Whiteness, High Shrinkage.



Use in Ceramic Glaze & Engobe : GVT Tiles, Wall Tiles, Floor Tiles, Porcelain Tiles, Glazed & Engobe Compound. T.R. Compound, Opaque Compound, Matt Compound.

Use in Ceramic Vitrified Tiles Body : Double Charge Vitrified Tiles, GVT Vitrified Tiles, Slab Tiles Body, Nano Vitrified Tiles.

Packing : 50 Kgs. Bag (Woven Bag with Liner)

Physical Properties

Coloromatic Value, 1200°C D65/2*

Name of Test	Result
Shrinkage %	5.77 %
L*	93.66%
A*	0.94%
B*	3.02 %
Whiteness	84.62 %
Temperature °C	1200/1215 %
Cycle Min.	52

Chemical Analysis

Compound	Result
SiO ₂ %	70.93 %
Al ₂ O ₃ %	16.21 %
Fe ₂ O ₃ %	0.1 %
TiO ₂ %	0.02 %
CaO%	0.32 %
MgO%	0.08 %
K ₂ O %	9.67 %
Na ₂ O %	2.06 %
Loss on Ignition %	0.32 %

QUARTZ POWDER

(FOR: Engobe & Glaze Compound)
Super High Quality, High Whiteness



Use in Ceramic Glaze & Engobe : GVT Tiles, Wall Tiles, Floor Tiles, Porcelain Tiles, Glazed & Engobe Compound. T.R. Compound, Opaque Compound, Matt Compound.

Use in Ceramic Vitrified Tiles Body : Double Charge Vitrified Tiles, GVT Vitrified Tiles, Slab Tiles Body, Nano Vitrified Tiles.

Packing : 50 Kgs. Bag (Woven Bag with Liner)

Physical Properties

Coloromatic Value, 1200°C D65/2*	
Name of Test	Result
Shrinkage %	0.17 %
L*	96.31 %
A*	0.62 %
B*	2.04 %
Whiteness	90.47 %
Temperature °C	1200/1215 %
Cycle Min.	52

Chemical Analysis

Compound	Result
SiO ₂ %	99.06 %
Al ₂ O ₃ %	0.39 %
Fe ₂ O ₃ %	0.01 %
TiO ₂ %	Tr.
CaO %	0.06 %
MgO %	Tr.
K ₂ O %	0.02 %
Na ₂ O %	0.12 %
Loss on Ignition %	0.26 %

SODA FELDSPAR POWDER

(FOR: Engobe & Glaze Compound)

Super High Quality, High Whiteness, High Shrinkage.



Use in Ceramic Glaze & Engobe : GVT Tiles, Wall Tiles, Floor Tiles, Porcelain Tiles, Glazed & Engobe Compound. T.R. Compound, Opaque Compound, Matt Compound.

Use in Ceramic Vitrified Tiles Body : Double Charge Vitrified Tiles, GVT Vitrified Tiles, Slab Tiles Body, Nano Vitrified Tiles.

Packing : 50 Kgs. Bag (Woven Bag with Liner)

Physical Properties

Coloromatic Value, 1200°C D65/2*	
Name of Test	Result
Shrinkage %	13.12 %
Residue 200#%	1.06 %
L*	84.17 %
A*	2.14 %
B*	4.49 %
Whiteness	63.72 %
Temperature °C	1195/1210 %
Cycle Min.	50

Chemical Analysis

Compound	Result
SiO ₂ %	72.73 %
Al ₂ O ₃ %	16.53 %
Fe ₂ O ₃ %	0.13 %
TiO ₂ %	0.07 %
CaO%	0.19 %
MgO%	0.08 %
K ₂ O %	0.25 %
Na ₂ O %	9.41 %
Loss on Ignition %	0.42 %

WOLLESTONITE POWDER

(IMPORTED - HIGH QUALITY) (AUTHORIES DIS. OF INDIA)
Super Whiteness, High Calcium, Super Brightness



Use in Ceramic Glaze & Engobe : GVT Tiles, Wall Tiles, Floor Tiles, Porcelain Tiles, Glazed & Engobe Compound. T.R. Compound, Opaque Compound, Matt Compound.

Use in Ceramic Body : White Vitrifified Body & Slab Tiles Body.

Packing : 50 Kgs. Bag (Woven Bag with Liner)

Physical Properties

Coloromatic Value, 1200°C D65/2*

Name of Test	Result
Shrinkage %	0.17%
L*	96.31%
A*	0.62%
B*	2.04%
Whiteness	90.47%
Temperature °C	1200/1215%
Cycle Min.	52%

Chemical Analysis

Compound	Result
SiO ₂ %	99.06%
Al ₂ O ₃ %	0.39%
Fe ₂ O ₃ %	0.01%
TiO ₂ %	Tr.
CaO %	0.06%
MgO %	Tr.
K ₂ O %	0.02%
Na ₂ O %	0.12%
Loss on Ignition %	0.26%

—— ZIRCONIUM REPLACEMENT ——

(Imported High Quality)
Super High Quality, High Whiteness, High L-Value



Use in Ceramic Vitrified Tiles Body : Double Charge Vitrified Tiles,
GVT Vitrified Tiles, Slab Tiles Body.

Use in Glaze & Engobe : GVT Tiles, Wall Tiles, Floor Tiles, Porcelain Tiles,
Glazed & Engobe Compound. T.R. Compound, Opaque Compound,
Matt Compound.

Packing : 50 Kgs. Bag (Woven Bag with Liner)

Chemical Analysis

Compound	Result
SiO ₂ %	99.8% Min.
Al ₂ O ₃ %	0.0012
Fe ₂ O ₃ %	0.14
TiO ₂ %	7.46
High %	5.5 To 5.6
MgO %	0.000003
K ₂ O%	0.00002
Na ₂ O%	0.000072
Zr(Hf) %	0.0071
Loss on Ignition %	0.000097

SILICA SAND

Super High Quality

Silica is an important component in the construction and glazing of all types of ceramics including tableware, floor tiles, wall tiles, and more.



Silica Sand Report			
SI No.	Characteristics (% by mass)	Product White sand (After mafnetic separation)	IS Specification for grade III Glassmaking sand
1	Loss on ignition, Max.	0.17	0.5
2	Silica (as SiO ₂), Min.	98.1	97
3	Iron Oxide (as Fe ₂ O ₃), Max.	0.09	0.1
4	Aluminium Oxide (as Al ₂ O ₃), Max.	0.28	----
5	Titanium Dioxide (as TiO ₂), Max.	0.13	----
6	Manganese Oxide (as MnO)	----	To pass the test
7	Copper Oxide (as CuO)	----	To pass the test
8	Chromium Trioxide (as Cr ₂ O ₃)	----	To pass the test

— CERAMIC GLAZE MIXTURE (FRIT) —

(Imported High Quality)
Super High Quality, High Whiteness



Grade : Engobe Frit-tr Frit-opeque Frit - Matt Frit

Use in Ceramic Glaze & Engobe : GVT Tiles, Wall Tiles, Floor Tiles,
Porcelain Tiles, Glazed & Engobe Compound, T.R. Compound,
Opeque Compound, Matt Compound.

Packing : 50 kgs. Bag (Woven Bag with Liner)

SODA ASH

(IMPORTED & INDIAN), HIGH QUALITY



Grade : Light / Dense

Use in Ceramic Glaze & Engobe : Double Charge Vitrified Tiles, GVT Vitrified Tiles, Slab Tiles Body, Wall Tiles Spraydryer, Parking Tiles, Floor Tiles, Porcelain Tiles.

Packing : 50 Kgs. Bag (Woven Bag with Liner)

Chemical Analysis

Characteristics	Units	Specification	TCL Specification
Molecular Weight	kg/m ³	500-750	550-720
Bulk Density	% max	2	0.80
Volatile matter content	% max	98.5	99.0
Total Alkalinity (as Na ₂ CO ₃)	% max	0.08	0.03
Sulphates (as Na ₂ SO ₄)	% max	1.0	0.80
Chlorides (as NaCl)	% max	0.007	0.0029
Iron (as Fe ₂ O ₃)	% max	0.007	0.002
Matter insoluble in water	% max	0.15	0.03

— TITANIUM DIOXIDE —

(AUTHORITIES DISTRIBUTER OF INDIA : SILVER STAR)



Grade : Anatase Grade & Rutile Grade

Use In Ceramic Glaze & Engobe : GVT Tiles, Wall Tiles, Floor Tiles, Porcelain Tiles, Glazed & Engobe Compound. T.R. Compound, Opaque Compound, Matt Compound, Waterproof Engobe.

Packing : 25 Kgs. Bag (woven Bag With Liner)

Chemical Analysis		
Item	Standards	Result
Content of TiO ₂ % (m/m)	>_98	98.6 %
Color (Compared with standard product)	Not Lower than	Not Lower than
Tint-reducing Power (Compared with standard product)	>_100	105 %
Volatile 105°C (m/m)	>_0.5	98.5
Water Soluble % (m/m)	>_0.6	0.08
PH of water suspension	0.6-8.0	1.0
Oil Absorption g/100g	>_0.26	0.007
Residue (45 m%) (m/m)	>_0.10	0.007
Whiteness	97.3	

ZINC OXIDE

Super Whiteness, High Quality



Use in Ceramic Glaze & Engobe : GVT Tiles, Wall Tiles, Floor Tiles, Porcelain Tiles, Glazed & Engobe Compound. T.R. Compound, Opaque Compound, Matt Compound & also use in Ceramic Frit.

Packing : 50 Kgs. Bag (Woven Bag with Liner)

Chemical Analysis

Contain	Result
ZNO	99.8% Min.
Moisture	0.0012
Loss On Ignition 850P C	0.14
PH Value (10% Solution)	7.46
Specific Gravity	5.5 To 5.6
Presence Of Metals	
Copper(Cu)	0.000003
Manganese (Mn)	0.00002
Cadmium (cd)	0.000072
Lead (Pb)	0.0071
Iron (Fe)	0.000097
Sulphur (S)	Nil
Chlorine	Present
Through 75% Micron	0.00086
Through 45% Micron	0.0023

GLAZE KAOLIN CHINA CLAY

Glaze Kaolin China Clay (Made In Ukraine)
(Imported China Clay) (Authorised Distributor Of India)

Physical Properties

Coloromatic Value, 1200°C D65/2*

Name of Test	Result
Green Filter	89.373 %
Blue Filter	83.00%
Yellow Index	7.13%
L*	97.95 %
A*	0.16 %
B*	2.27%
Moisture	15.78%
Residue 40u	0.19 %



Grade : KN-83/KN-60/KS-1/NP-1

Use in Ceramic Glaze & Engobe : GVT Tiles, Wall Tiles, Floor Tiles, Porcelain Tiles, Glazed & Engobe Compound. T.R. Compound, Opeque Compound, Matt Compound.

Packing : 1350 Kgs. Jumbo Bag

Use in Ceramic Body : White Vitrified Body & Slab Tiles Body.

Chemical Analysis

Compound	Result
Na2O %	0.00%
MgO%	0.05%
Al2O3%	37.92%
SiO2%	46.67%
P2O5%	0.04%
S	0.00%
K2O %	0.32%
CaO%	0.03%
TiO2 %	0.51%
Fe2O3 %	0.27%
MnO %	0.02%
Loss on Ignition %	13.49 %
Shrinkage %	6.89 %



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