



Vaaidehi Minerals
We Add Value to your Products

An ISO 9001 :2008 Certified Company

Inspiring quality & performance for satisfying our customer needs is the #1 and only aim of our management team.



Vaaidehi Minerals is a part of nearly 10 years old Vaaidehi Group of companies.

We are engaged in processing & distribution of industrial minerals like Talc, Mica, Dolomite, Quartz, Feldspar, Calcite, China Clay, Barites etc. and, Specialty chemicals like Zinc Stearate, Dibasic Lead Stearate, Calcium Stearate, Ca-Zn Stabilizer, Ca-Pb Stearate, PVC Stabilizer and other metal Stearates etc.

We have an inhouse developed processing system with a capacity of processing 72,000 MT of material per annum.

Advantages to our Clients:

- ✚ Mining Advantages
- ✚ Processing Advantages
- ✚ Price Advantages
- ✚ Quality Assurance with
- ✚ Time Bound Delivery

China Clay / Kaolin:

Kaolin is white, soft, plastic clay mainly composed of fine-grained plate-like particles. Kaolin is formed when the anhydrous aluminium silicates which are found in feldspar rich rocks, like granite, are altered by weathering or hydrothermal processes.

China clay is an industrial mineral used primarily as inert filler and customers combine it with other raw materials in a wide variety of applications. Kaolin is white, soft, plastic clay mainly composed of fine-grained plate-like particles.

Kaolin is part of our natural world. Its uses are multiple and diversified. Kaolin's whiteness and plasticity make it extremely suitable for its extensive use as a filler, extender, ceramic raw material and pigment. It is also an important raw material to refractories, and to catalyst, cement and fiber glass industries.

Our Standard Kaolin Grades:

Kaolin Grades / Model no.	VK - 89P300	VK - 92W300	VK - 90N300	VK - 89PL	VK - 92NL
Product Name	Levigated China Clay powder	Water washed China Clay powder	Natural China Clay / Kaolin powder	Water washed China Clay Lumps	Natural China Clay / Kaolin Lumps
Whiteness (%)	90% - 92%	90% - 92%	88%	90% - 92%	88%
Moisture (%)	< 0.5	<0.5	<0.5	< 0.5	<0.5
SiO ₂ (%)	47 to 48	58 to 59	74 to 75	47 to 48	74 to 75
Al ₂ O ₃ (%)	37 to 39	26 to 27	16 to 17	37 to 39	16 to 17
K ₂ O (%)	3 to 3.2	0.5 to 1	0.5 to 1	3 to 3.2	0.5 to 1
Na ₂ O (%)	0.5 to 1	0.5 to 1	1 to 2	0.5 to 1	1 to 2
CaO (%)	0.1 to 0.2	0.5 to 1	0.5 to 1	0.1 to 0.2	0.5 to 1
MgO (%)	0.2 to 0.3	0.4 to 0.5	0.3 to 0.4	0.2 to 0.3	0.3 to 0.4
LOI (%)	9 to 10	11 to 12	5 to 6	9 to 10	5 to 6
Particle Size	300 mesh	300 mesh	300 mesh	Lumps	Lumps
Top cut	50 micron	50 micron	50 micron	-	-
CST/VAT	2% CST against 'C' Form Otherwise 5%				
Delivery	3 To 10 Days				
Packing	50 Kg HDPE Bag				
Freight	Extra				
Offer Validity	5 Days				
Payment	Advance, L/C, T/T				

Note: Apart from the above grades, we do manufacture tailor made China Clay based upon clients' requirement.

China Clay Applications:

1. China clay in Paints: It is used in various paints like distempers, cement primer, wood primer, texture paint, spray plaster, putties, fillers & undercoats. In its hydrous or calcined forms, kaolin can improve the optical, mechanical and rheological properties of paint.

Calcined kaolin is widely used in satin and matt paints where they can deliver increased opacity, whiteness and scrub resistance. Kaolin is particularly useful as a partial replacement for TiO₂ pigment.

2. China clay in Plastic: It is used as filler in combination with others to impart strength & smoothness in plastic Industry. Kaolin is used in plastics to provide smooth surfaces, dimensional stability and resistance to chemical attack, to conceal fibre reinforcement patterns and to reduce shrinkage and cracking during polymer compounding and shape forming.

It is also used as a rheological modifier and functional filler, in which capacity it is used to improve mechanical, electrical and thermal properties.

3. China clay in Paper: It is used in variety of papers, cardboards, hard boards and others. In this industry, kaolin is used both as a filler in the bulk of the paper and to coat its surface.

Kaolin's whiteness, opacity, large surface area and low abrasivity make it an ideal raw material for paper production. Its use allows a reduction in the amount of expensive wood pulp required, enhances the optical properties of the paper and improves its printing characteristics.

4. Ceramics Industry: Kaolin converts to mullite and glass when fired to temperatures exceeding 1000° C. It is used in formulations described as white-wares, which consists of tableware, sanitaryware, and wall and floor tiles. It provides strength and plasticity in the shaping of these products and reduces the amount of pyroplastic deformation in the process of firing.

In tableware, in addition to the strength and plastic qualities, it is essential to the achievement of high fired whiteness. This is because it contains a low content of coloring elements such as iron and titanium. For sanitaryware, the product is formed by casting (either in plaster, or resin moulds under pressure).

5. Electrical Industry: It is used for Electrical insulation, High voltage insulation components, electrical wires, EPDM rubber and others.

6. Cosmetic & Soap: China Clay is used in toothpaste, cosmetic and soap industry. It can also be used as excipients in personal care products including, for example, in body therapy (bath and skin treatments) and in cosmetics.

7. China Clay in Refractories: Refractories are produced from natural materials, combinations of compounds and minerals, such as kaolin, which are used to build structures subjected to high temperatures, ranging from simple to sophisticated products, e.g. from fireplace brick linings to re-

entry heat shields for the space shuttle. In industry, they are used to line boilers and furnaces of all types reactors, ladles, stills, kilns and so forth.

8. China Clay in Fibreglass: The fibreglass which is used as a strengthener in a multitude of applications requires the use of kaolin for its manufacture. Kaolin allows for the strengthening of the fibres integrated into the material.

It also improves the integration of fibres in products requiring strengthened plastics: cars, boats and marine products, sporting goods and recreation products, aviation and aerospace products, circuit board manufacturing, fibreglass insulation, fibreglass air filters, fibreglass tanks and pipes, corrosion resistant fibreglass products, fibreglass building and construction products, etc.



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