



## 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 Zinc Oxide 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

## Feldspar:

Most deposits offer sodium feldspar as well as potassium feldspar and mixed feldspars. Chemically, the feldspars are silicates of aluminium, containing sodium, potassium, iron, calcium, or barium or combinations of these elements.

Most of the products we use on a daily basis are made with feldspar: glass for drinking, glass for protection, fiberglass for insulation, the floor tiles and shower basins in our bathrooms, and the tableware from which we eat. Feldspar is part of our daily life.

Basically, the two properties which make feldspars useful for downstream industries are their alkali and alumina content. Feldspars play an important role as fluxing agents in ceramics and glass applications, and also are used as functional fillers in the paint, plastic, rubber and adhesive industries. This makes it a very essential mineral in our day-to-day life.

### Our Standard Feldspar Grades:

| Feldspar Grades / Model no.        | VF - 10S200                           | VF - 09S200                      | VF - 08S200          | VF - 25P300                     | VF - 12P200                | VF - 15P200                  | VF - 11P200            |
|------------------------------------|---------------------------------------|----------------------------------|----------------------|---------------------------------|----------------------------|------------------------------|------------------------|
| Product Name                       | Industrial Soda feldspar for ceramics | Soda feldspar for industrial use | Soda feldspar powder | premium quality potash feldspar | 12% Potash feldspar powder | Potash 11.5% feldspar powder | Potash feldspar powder |
| Color                              | White                                 | White                            | White                | White                           | White                      | White                        | White                  |
| SiO <sub>2</sub> (%)               | 71±3%                                 | 70±3%                            | 72±3%                | 68±2%                           | 68±2%                      | 68±2%                        | 70±2%                  |
| Al <sub>2</sub> O <sub>3</sub> (%) | 16±1%                                 | 16±1%                            | 15±1%                | 15±1%                           | 18±1%                      | 16±1%                        | 18±1%                  |
| Na <sub>2</sub> O (%)              | 10±0.8%                               | 9.5±0.8%                         | 8±0.8%               | 2±0.5%                          | 0.1±0.05%                  | 2±0.5%                       | 0.1±0.5%               |
| K <sub>2</sub> O (%)               | 0.3±0.08%                             | 0.1±0.08%                        | 1.2±0.2%             | 12.5±0.5%                       | 12±0.5%                    | 11.5±0.5%                    | 11±0.5%                |
| Fe <sub>2</sub> O <sub>3</sub> (%) | 0.05±0.01%                            | 0.1±0.03%                        | 0.07±0.01%           | 0.08±0.03%                      | 0.1±0.02%                  | 0.06±0.02%                   | 0.08±0.03%             |
| CaO (%)                            | 1±0.2%                                | 0.1±0.05%                        | 0.3±0.05%            | 1±0.1%                          | 0.07±0.01%                 | 1±0.2%                       | 0.1±0.05%              |
| MgO (%)                            | 0.2±0.02%                             | 0.1±0.02%                        | 0.1±0.02%            | 0.1±0.03%                       | 0.06±0.02%                 | 0.1±0.03%                    | 0.1±0.03%              |
| L.O.I.                             | 0.5±0.05%                             | 0.1±0.05%                        | 0.5±0.1%             | 0.4±0.05%                       | 0.1±0.05%                  | 0.5±0.05%                    | 0.1±0.05%              |
| Sizes available                    | 200 mesh                              | 200 mesh                         | 200 mesh             | 200 mesh                        | 200 mesh                   | 200 mesh                     | 200 mesh               |

|                |                                      |
|----------------|--------------------------------------|
| CST/VAT        | 2% CST against 'C' Form Otherwise 5% |
| Packing        | 50 Kg HDPE Bag ; 1 MT Jumbo Bag      |
| Freight        | Extra                                |
| Offer Validity | 5 Days                               |
| Payment        | Advance, L/C, T/T                    |

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

## FELDSPAR Applications:

- A. Ceramics Industry: Feldspar is used as fluxing agent in all kinds of ceramics & glazes. In the manufacture of ceramics, feldspar is the second most important ingredient after clay. Since feldspar does not have a strict melting point it melts gradually over a range of temperatures. Feldspars are used as fluxing agents, to form a glassy phase at low temperatures, and as a source of alkalies and alumina in glazes.

They improve the strength, toughness, and durability of the ceramic body and cement the crystalline phase of other ingredients, softening, melting and wetting other batch constituents. In the flooring sector, feldspar is the main constituent in the body composition. It is used as a flux, lowering the vitrifying temperature of a ceramic body during firing and forming a glassy phase.

In tableware, feldspar gives a good fusibility for a product without defects. In the sanitaryware sector, the use of feldspar within vitreous ceramic bodies is used here to illustrate this optimization process.

- B. Glass Industry: Both Sodium and Potassium feldspar is used in glass industry. Feldspar is an important ingredient in the manufacture of glass and an important raw material as well, because it acts as a fluxing agent, reducing the melting temperature of quartz and helping to control the viscosity of glass. The alkali content in feldspar acts as flux, lowering the glass batch melting temperature and thus reducing production costs. But feldspars are primarily added to glass batches for their alumina content, which improve hardness, durability, and resistance to chemical corrosion. Feldspars are used in the production of flat glass (windows, car glass...) but also container glass. They provide us with a clear view for our television and computer screens, car headlamps, fluorescent tubes, perfume bottles, soda bottles, pharmaceutical or laboratory glass.
- C. Paints: Feldspar is used as filler in paints & coatings industry. Beneficial properties of feldspars include good dispersability, chemical inertness, stable pH, high resistance to abrasion, low viscosity at high filler loading, interesting refractive index and resistance to frosting. The products used in such applications are generally fine-milled grades.
- D. Enamel frits and glazes: Feldspar enters in the enamel composition, assuring the absence of defects and the neatness of the end product: enamel frits, ceramic glazes, ceramic tile glazes, sanitaryware, tableware, electrical porcelain and giftware to name just a few.
- E. Other uses: in plastics & rubber industries as a filler, in mild abrasives, urethane, welding electrodes (production of steel), latex foam, as a welding rod coating, road aggregate...



For more information please visit us @ [www.vaaidehiminerals.com](http://www.vaaidehiminerals.com)

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