**Feldspar – (Potassium)**

We provide the best quality of POTASSIUM FELDSPAR AND SODIUM FELDSPAR, with the best quarries in India. Enriched with best quality material and which will last for FOUR DECADES.

Feldspar is by far the most abundant group of minerals in the earth's crust, forming about 60% of terrestrial rocks. Most deposits offer sodium feldspar as well as potassium feldspar and mixed feldspars. Feldspars are primarily used in industrial applications for their alumina and alkali content. The term feldspar encompasses a whole range of materials. Most of the products we use on a daily basis are made with feldspar: glass for drinking, glass for protection, fibreglass 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.

The minerals of which the composition is comprised between Albite and Anorthite are known as the plagioclase feldspars, while those comprised between Albite and Orthoclase are called the alkali feldspars due to the presence of alkali metals sodium and potassium. The alkali feldspars are of particular interest in terms of industrial use of feldspars. Amongst the numerous rocks in which they are present, feldspars are particularly abundant in igneous rocks like granite, which contains up to 50% or 70% of alkaline feldspar.

Basically, the two properties which make feldspars useful for downstream industries are their alkali and alumina content. On those elements we can distinguish three families: Feldspathic sand, Pegmatite and Feldspar. A further distinction can be made between sodium, potassium and mixed feldspars, depending on the type of alkali they contain. 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.

- **Glass**: 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.

- **Ceramics**: In the manufacture of ceramics, feldspar is the second most important ingredient after clay. Feldspar does not have a strict melting point, since it melts gradually over a range of temperatures. This greatly facilitates the melting of quartz and clays and, through appropriate mixing, allows modulations of this important step of ceramic making. 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.

- **Fillers**: Feldspars also are used as fillers and extenders in applications such as paints, plastics and rubber. Beneficial properties of feldspars include good dispersability, high 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.

- **Enamel frits and glazes**: Feldspar assists the enamel composition, assuring the absence of defects and the neatness of the end product: e.g. enamel frits, ceramic glazes, ceramic tile glazes, sanitary ware, tableware, electrical porcelain and giftware.

And many other end-uses: paint, mild abrasives, urethane, welding electrodes (production of steel), latex foam, the welding of rod coating, and road aggregate.

In tableware, feldspar gives a good fusibility for a product without defects.

In sanitary ware, the use of feldspar within vitreous ceramic bodies is used to facilitate the optimization process.
In ceramic bodies, the main vitrifying (fluxing) agent is feldspar. The majority of white ware bodies contain good proportions of feldspar. It acts as a flux. In the ceramic industry the flux is defined as that portion of the body which develops glass phase. The amount of flux in a ceramic body should be only in such a proportion as to develop the desired amount of vitrification. If excess of flux is added, the fired body becomes very glassy and consequently, brittle.

We produce customised sizes, as per customer requirement:

1. Granule Particles
2. Powder: 80, 100, 200, 325 Mesh
3. Lumps from 3 mm to 150mm

<table>
<thead>
<tr>
<th>CHEMICAL COMPOSITION</th>
<th>A GRADE</th>
<th>B GRADE</th>
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</thead>
<tbody>
<tr>
<td>POTASSIUM OXIDE K₂O</td>
<td>11 % (+/- 1%)</td>
<td>9 % (+/- 1%)</td>
</tr>
<tr>
<td>SODIUM OXIDE Na₂O</td>
<td>Less than 3 %</td>
<td>Less than 4 %</td>
</tr>
<tr>
<td>ALUMINA Al₂O₃</td>
<td>16 % - 10 %</td>
<td>16 % - 10 %</td>
</tr>
<tr>
<td>TITANIUM OXIDE TiO₂</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>MAGNESIUM OXIDE MgO</td>
<td>Nil</td>
<td>Nil</td>
</tr>
<tr>
<td>SILICA SiO₂</td>
<td>64 % - 66 %</td>
<td>66 % - 68 %</td>
</tr>
<tr>
<td>FERRIC OXIDE Fe₂O₃</td>
<td>0.02 % - 0.06 %</td>
<td>0.05 % - 0.09 %</td>
</tr>
<tr>
<td>CALCIUM OXIDE CaO</td>
<td>0.30 % - 0.50 %</td>
<td>0.30 % - 0.50 %</td>
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<tr>
<td>LOSS ON IGNITION LOI</td>
<td>1%</td>
<td>1%</td>
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CUSTOMISED IN SIZES

Feldspar Lumps 3 mm to 180 cm
Feldspar Powder mesh – 80, 100, 200, 325, 400 mesh.
CUSTOMISED PACKING

JUMBO BAGS WITHOUT PALLET

25 KG / 50 KG PP BAGS WITH PALLET & STRIPS

JUMBO BAGS WITH PALLET

25 KG / 50 KG PP BAGS WITHOUT PALLET

1.2 MTS JUMBO BAGS WITH PALLET, SHRINK WRAP AND STRIPS.