



An ISO 9001:2008 Certified Company

AKJ MINCHEM PRIVATE LIMITED

WE EMPOWER YOUR GROWTH

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



AKJ MINCHEM PVT LTD is a part of nearly 22 years old AKJ Group of companies.

We are engaged in processing & distribution of industrial minerals like **Talc, Calcite, Dolomite, Quartz, Silica, Soda Feldspar, Potash Feldspar, Mica, China Clay, Red Ocher, Pyrophyllite, Barites** etc. and, Specialty chemicals like **Zinc Stearate, Calcium Stearate, Calcium Oxide** and **Zinc Oxide** etc.

We have an inhouse developed processing system with a capacity of processing 12,000 MT of material per annum.

Advantages to our Clients:

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

Potash 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**.

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. Chemically, the feldspars are silicates of aluminium, containing sodium, potassium, iron, calcium, or barium or combinations of these elements.

Feldspar minerals are essential components in igneous, metamorphic and sedimentary rocks, to such an extent that the classification of a number of rocks is based on feldspar content. The mineralogical composition of most feldspars can be expressed in terms of the ternary system Orthoclase, Albite and Anorthite . Chemically, the feldspars are silicates of aluminium, containing sodium, potassium, iron, calcium, or barium or combinations of these elements.

Feldspar Chemical Properties/Composition :

Al ₂ O ₃	: 18±1%
SiO ₂	: 70±2%
Fe ₂ O ₃	: 0.1±0.03%
MgO	: 1.0%
Na ₂ O	: 2% TO 10%
K ₂ O	: 2% TO 12%
CaO	: 1±0.3%

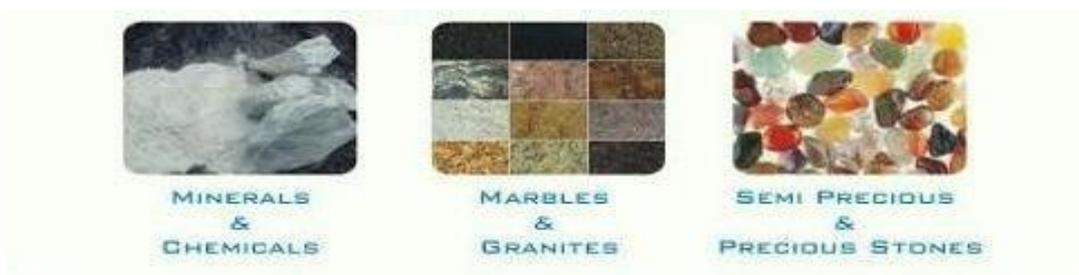
Our Standard Grades :-

Item / Parameter	AMPL - P1	AMPL - P2	AMPL - P3	AMPL - P4	AMPL - P5	AMPL - P6
Feldspar Grades / Model no.	K20 JETO	K20 INDIGO	K20 STD	K20 ECO	K20 MEDO	K20 LUMPO
Product Name	Premium Quality Potash Powder	High Quality Potash Powder	Standard potash Powder (L.Value=75+)	Economical potash powder (L.Value=70+)	High quality potash feldspar powder (L.Value=65+)	Super Snow Grade Lumps
Color	White/ivory	White	White/ivory	White/ivory	White/ivory	SUPER
SiO2 (%)	65±3%	65±3%	65±3%	65±3%	65±3%	65±3%
Al2O3 (%)	18±1%	18±1%	18±1%	17±1%	16±1%	18±1%
Na2O (%)	1±0.5%	1±0.5%	1.5±0.5%	1.5±0.5%	2±0.5%	2±0.5%
K2O (%)	11±0.5%	10±0.5%	7±0.5%	6±0.5%	4±0.5%	11±0.5%
Fe2O3 (%)	0.1±0.03%	0.1±0.03%	0.1±0.03%	0.1±0.03%	0.1±0.03%	0.1±0.03%
CaO (%)	0.08±0.02%	0.08±0.02%	0.08±0.02%	0.08±0.02%	0.08±0.02%	0.08±0.02%
MgO (%)	0.1±0.03%	0.06±0.02%	0.1±0.03%	0.1±0.03%	0.1±0.03%	0.1±0.03%
L.O.I.	1±0.5%	0.1±0.05%	0.5±0.05%	0.1±0.05%	0.4±0.05%	0.4±0.05%
All Sizes available	Lumps/200 mesh	Lumps/200 mesh	Lumps/200 mesh	Lumps/200 mesh	Lumps/200 mesh	Lumps
Applications	Export Quality; used in lots of industries, such as ceramics, glass, cement, chemical processing, abrasives,	Export Quality; used in lots of industries, such as ceramics, glass, cement, chemical processing, abrasives,	Used in lots of industries, such as ceramics, glass	Used in lots of industries, such as ceramics, glass	Used in lots of industries, such as ceramics, glass	Export Quality; used in lots of industries, such as ceramics, glass, cement, chemical processing, abrasives,
* Tailor Made : Apart from the above grades, we do manufacture tailor made POTASH based upon clients						
* Packaging : 25/50 kgs pp bag; 1ton/bag; 1*20 fcl can load 24±1 MT or upon clients' requirement						

GSTIN : 5%
 Packaging : 25 KG/50 Kg / 1 MT Jumbo Bags.
 Freight : Extra
 Offer Validity : 15 Days
 Payment : Advance & L/C.

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 alkalis 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...



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