

Potassic Feldspar Specification

Description:

Potassic Feldspar (KAlSi_3O_8) is a naturally occurring aluminosilicate mineral with high silica and alumina content, combined with significant potassium oxide (K_2O).

It is a key raw material in the manufacture of **ceramics, glass, enamels, and fillers**, offering excellent fluxing properties, chemical stability, and whiteness after firing.

Applications:

- **Ceramic & Porcelain Industry:** Flux to reduce melting temperature and improve glaze smoothness.
- **Glass Manufacturing:** Provides alumina and potassium to enhance hardness and transparency.
- **Paints & Coatings:** Used as a filler and extender for improved durability.
- **Plastic & Rubber:** Reinforcing filler to improve mechanical strength.
- **Abrasive & Refractory Materials:** Enhances hardness and thermal stability.

Packing:

- Palletized bag in container
- 1 m³ jumbo bags in container

Health and Safety:

- Non-toxic, chemically inert material.
- Avoid inhalation of dust; use PPE.
- Store in a cool, dry, and covered area.

Chemical Composition (XRF Analysis)

Component	wt%
SiO ₂	74.42
Al ₂ O ₃	13.51
Fe ₂ O ₃	0.42
K ₂ O	10.35
Na ₂ O	0.07
TiO ₂	0.19
L.O.I (Loss on Ignition)	0.82

Physical Properties

Property	Specification
Appearance	Off-white to light pink powder or granular

Property	Specification
Specific Gravity	2.55 – 2.60 g/cm ³
Mohs Hardness	6 – 6.5
Melting Point	~1150–1250 °C
Bulk Density	1.3 – 1.6 g/cm ³
Moisture Content	≤ 0.5 %
Fineness (Powder Grade)	200–600 mesh available
Potassic Feldspar Raw & Powder	Applications
	   