

# 08 POTASSIC FELDSPAR



## PRODUCT DESCRIPTION

Potassic Feldspar is a natural aluminosilicate mineral containing high potassium oxide (K<sub>2</sub>O). It is widely used in ceramics, glass, enamels, paints, plastics, and as a fluxing agent in foundry and metallurgical industries due to its high purity, consistent quality, and excellent performance.

## CHEMICAL COMPOSITION (XRF ANALYSIS)

COMPONENT	wt%
SiO <sub>2</sub>	63.0 - 66.0
Al <sub>2</sub> O <sub>3</sub>	18.0 - 20.0
K <sub>2</sub> O	11.0 - 13.5
Na <sub>2</sub> O	2.0 - 3.5
CaO	0.3 - 1.5
Fe <sub>2</sub> O <sub>3</sub>	0.1 - 0.4
MgO	0.1 - 0.3
TiO <sub>2</sub>	0.05 - 0.15
LOI (Loss on Ignition)	0.3 - 0.8

**i** Chemical composition may vary slightly based on origin and grade.

## PHYSICAL PROPERTIES

PROPERTY	UNIT	TYPICAL RANGE
Appearance	-	Pinkish to white crystalline grains
Specific Gravity	g/cm <sup>3</sup>	2.55 - 2.60
Bulk Density	g/cm <sup>3</sup>	1.45 - 1.65
Hardness (Mohs)	-	6 - 6.5
Water Absorption	%	≤ 0.3
Melting Point	°C	1100 - 1200
Refractoriness	°C	≥ 1300
Whiteness	%	60 - 80
pH (10% Slurry)	-	6.0 - 7.5
Particle Size	-	As per customer requirement

## APPLICATIONS

- CERAMIC INDUSTRY**  
 Used as a flux in ceramic bodies, glaze, and porcelain to reduce firing temperature and improve strength and vitrification.
- GLASS INDUSTRY**  
 Essential raw material in glass manufacturing to enhance transparency, durability, and chemical resistance.
- PAINTS & COATINGS**  
 Acts as an extender and functional filler to improve opacity, brightness, and durability.
- PLASTICS & RUBBER**  
 Improves mechanical properties, dimensional stability, and heat resistance.
- FOUNDRY INDUSTRY**  
 Used as a flux and additive to improve mold quality and casting finish.
- ENAMELS & PIGMENTS**  
 Provides good chemical stability, brightness, and gloss.

## AVAILABLE FORMS & PARTICLE SIZES



**i** Other sizes available upon request.

## PACKAGING

- 25 kg Bags (palletized)
- 1000 kg Jumbo Bag
- 1300 kg Jumbo Bag

