

## **Technical Datasheet**

Reference No.: DS-FB-2024-01 Issue Date: 28.10.2024

Revision: 1.3

# **Feldspar (Potassic) DBM-FPB**

#### **Product Features**

Feldspar is a high-purity, chemically stable mineral known for its excellent fluxing properties. It lowers melting temperature, enhances strength and durability, and improves brightness in glass and ceramic applications. With good whiteness, consistent composition, and controlled particle size, it ensures reliable performance across various industrial uses.

## **Technical Specifications**

- Common op Common on o		
Chemical Analysis		
SiO <sub>2</sub>	(%)	69.84
$Al_2O_3$	(%)	16.32
Fe₂O₃	(%)	0.57
K₂O	(%)	9.13
Na₂O	(%)	0.55
BaO	(%)	0.06
CaO	(%)	0.21
MgO	(%)	0.14
MnO	(%)	<0.01
$P_2O_5$	(%)	<0.01
SO <sub>3</sub>	(%)	0.18
TiO <sub>2</sub>	(%)	0.09
$Cr_2O_3$	(%)	0.01
Cu	(%)	<0.01
Pb	(%)	<0.01
Zn	(%)	<0.01
LOI	(%)	2.9

## **Product Variants**

Feldspar is available in three main variants: Sodium Feldspar, Potassium Feldspar, and Mixed (Soda-Potash) Feldspar. Sodium feldspar offers excellent fluxing ability and is widely used in glass manufacturing. Potassium feldspar provides superior whiteness and strength, making it ideal for high-quality ceramics and tiles. Mixed feldspar combines the benefits of both, offering balanced melting behavior and consistent performance in diverse industrial applications.

## **Packaging Information**

Feldspar is normally supplied in bulk when it's in lump form. Anyway it can also be available in jumbo bags of 1.5 MT. All jumbo bags are designed for easy handling, storage, and transportation, ensuring the product remains dry and protected from moisture.

## **Application and Usage**

Feldspar is used in different industries some of which are listed in below:

- >> Ceramics Industry: Feldspar acts as a fluxing agent, lowering the melting temperature of the mix and helping to form a smooth, glassy surface on the ceramic body.
- >> Glass Industry: It provides alumina, which improves the strength, hardness, and durability of glass, and helps control the melting temperature during production.
- >>> Fillers and Extenders: In paints, plastics, and rubber, feldspar is used as a filler to enhance hardness, chemical resistance, and surface finish.
- >> Enamel and Glaze: Feldspar helps produce a shiny and uniform glaze on enamelware and ceramics by promoting vitrification during firing.
- >> Glass Fiber and Insulation: In fiberglass production, feldspar helps control viscosity and thermal expansion, improving product strength and heat resistance.
- >> Abrasives and Polishing: Finely ground feldspar is used in abrasive powders and polishing compounds due to its hardness and stable chemical nature.

## **Safety Data**

Feldspar is a naturally occurring, inorganic mineral and is generally considered non-hazardous in solid form. However, fine dust generated during handling, grinding, or processing may cause temporary irritation to the eyes, skin, or respiratory system. Prolonged or repeated exposure to respirable dust should be avoided, as it may contain small amounts of crystalline silica.

#### Warranty

DATSON Building Materials warrants that the product supplied meets the specified quality and performance standards as outlined in this datasheet. We guarantee that the material is free from defects in manufacturing and workmanship. For warranty claims, please retain proof of purchase and contact our customer service team.



**DATSON Building Materials Trading L.L.C** 

P.O. Box 91176, Dubai, UAE Tel.: +971- 43515060 www.datsonbm.com info@datsonbm.com



The information provided in this datasheet is based on current knowledge and is intended to describe the product and its possible applications. DATSON Building Materials makes no guarantees regarding the accuracy or completeness of this information and assumes no liability for any damages resulting from the use of the product in any manner that is inconsistent with its recommended guidelines. It is the responsibility of the user to ensure that the product is suitable for the intended application and to comply with all applicable regulations and standards. Product specifications are subject to change without notice.