

Technical Data Sheet

Dolomite (Float Glass Grade)

Description

Dolomite is a sedimentary rock composed primarily of calcium and magnesium carbonate. Its unique chemical composition $\{CaMg(CO_3)_2\}$ makes it an ideal ingredient for float glass production.

Float glass is one of the most widely used types of glass in the world, Float glass uses common glass-making raw materials, typically consisting of sand, soda ash (sodium carbonate), dolomite, limestone, and salt cake (sodium sulfate) etc. Other materials may be used as colorants, refining agents or to adjust the physical and chemical properties of the glass.

While the process of making float glass may seem straightforward, there are several key ingredients that contribute to its quality. One such ingredient is dolomite, a mineral that plays a crucial role in the production of float glass.

When dolomite is added to the glass-making process, it acts as a flux, lowering the melting point of the glass mixture and enhancing its viscosity. This reduction in melting point allows for a more efficient and cost-effective glass production process.

Fluxing Agent:

Dolomite's role as a flux helps to reduce the melting temperature of the raw materials like silica sand and soda ash. This makes the melting process more energy-efficient and cost-effective.

Stabilizer:

Dolomite's balanced combination of calcium and magnesium carbonates acts to stabilize the glass structure.

Enhances Durability:

The presence of dolomite improves the overall hardness and durability of the final float glass product.

Improves Chemical Resistance:

Dolomite contributes to the glass's increased resistance to chemical corrosion, making it more suitable for various architectural and automotive applications.

Viscosity Control:

Dolomite helps to control the working viscosity of the molten glass, allowing it to maintain shape more easily during the manufacturing process.

Typical Physical Analysis

Appearance	Free Flowing Powder	
Specific Gravity	g/cm ³	2.8–2.9
Color	Whitish Gray	
16 mesh (1.19 mm)	≤ 10	
120 mesh (- 0.125 mm)	≤ 10	

Typical Chemical Analysis

Silica as SiO ₂	(%)	0.3 ± 0.10
Magnesium Oxide as MgO	(%)	21 ± 1
Calcium Oxide as CaO	(%)	32 ± 1
Aluminum Oxide as Al ₂ O ₃	(%)	0.2 ± 0.05
Iron Oxide as Fe ₂ O ₃	(%)	0.07 ± 0.003
Sodium Oxide as Na ₂ O	(%)	1 ± 0.5
Potassium Oxide as K ₂ O	(%)	1 ± 0.5

Packing

BlueSeal Traders is the manufacturer of Dolomite Powder, doing packing in 25kg bag, 50kg bag, 1.0 / 1.4 MT Jumbo Bag.