

Calcined Dolomite Specification

Description:

Calcined Dolomite is obtained by the thermal decomposition of high-purity dolomite rock ($\text{CaMg}(\text{CO}_3)_2$) at high temperatures, resulting in a product rich in calcium oxide (CaO) and magnesium oxide (MgO). It serves as an important raw material in steelmaking, refractories, glass production, and environmental applications due to its high thermal stability and chemical purity.

Applications:

- **Steel Industry:** As a flux and slag conditioner in Basic Oxygen Furnaces (BOF), Electric Arc Furnaces (EAF), and ladle refining.
- **Refractory Industry:** Raw material for basic refractory bricks and lining materials due to its excellent thermal stability.
- **Glass Industry:** Source of CaO and MgO for improving glass durability and workability.
- **Environmental Uses:** Neutralization of acidic wastewater and desulfurization of flue gases.
- **Agricultural Use (optional):** Soil conditioner and pH regulator (on request, depending on particle size).

Packing:

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

Health and Safety:

- Non-toxic and non-flammable.
- Avoid inhalation of dust — use protective mask and gloves during handling.
- Contact with water may cause exothermic reaction (formation of $\text{Ca}(\text{OH})_2$ / $\text{Mg}(\text{OH})_2$).
- In case of eye contact, rinse immediately with plenty of water and seek medical advice.
- Dispose of waste material in accordance with local environmental regulations.
- Safety Data Sheet (SDS) available upon request.

Calcined Dolomite Analysis

Component	Unit	Typical Value (%)	Specification Range (%)
CaO	%	61.8	≥ 60.00
MgO	%	34.72	≥ 33.00
SiO ₂	%	0.21	≤ 1.00
Al ₂ O ₃	%	0.04	≤ 0.50
Fe ₂ O ₃	%	0.19	≤ 0.50

Component	Unit	Typical Value (%)	Specification Range (%)
Na ₂ O	%	0.07	≤ 0.30
K ₂ O	%	0.04	≤ 0.30
L.O.I (Loss on Ignition)	%	2.93	≤ 4.00
Sulphur (S)	%	-	≤ 0.10
Phosphorus (P)	%	-	≤ 0.02
Physical Properties			
Property	Unit	Typical Value	
Appearance	–	White to light grey solid	
Bulk Density	t/m ³	~0.85	
True Density	t/m ³	~3.5	
pH (aqueous suspension)	–	12 – 13	
Melting Point	°C	~2800	
Moisture Content	%	≤ 1.5	
Fines (<5 mm)	%	≤ 10	
Calcined Dolomite Raw & Powder		Applications	
			