

Natural Dolomite Specification

Description:

Natural Dolomite is a double carbonate of calcium and magnesium ($\text{CaCO}_3 \cdot \text{MgCO}_3$), occurring as a crystalline sedimentary rock. It is characterized by high purity, uniform composition, and chemical stability. Dolomite is widely used in metallurgical, glass, construction, and environmental industries due to its combined CaO and MgO content, which provides excellent fluxing, stabilizing, and neutralizing properties.

Applications:

- Metallurgical Industry: Flux and slag conditioner in BOF/EAF furnaces, desulfurization.
- Refractory Industry: Raw material for magnesia-based refractory bricks.
- Glass & Ceramics: Source of CaO and MgO, improves melt viscosity and durability.
- Chemical Industry: Feedstock for magnesium salts and other derivatives.
- Environmental Uses: Neutralization of acidic wastewater, flue gas desulfurization.
- Agriculture: Soil conditioner and pH regulator (optional, depending on particle size).

Packing:

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

Health and Safety:

- Chemically inert and non-toxic under normal handling
- Avoid prolonged exposure to airborne dust; use PPE and adequate ventilation.
- Wash with water after contact; avoid inhalation of fine powders.
- Dispose of material according to local environmental regulations.

Natural Dolomite Analysis

Component	Unit	Typical Value (%)
CaO	%	31.16
MgO	%	20.77
SiO ₂	%	0.05
Fe ₂ O ₃	%	0.02
Al ₂ O ₃	%	—
Na ₂ O	%	—
K ₂ O	%	—
L.O.I (Loss on Ignition)	%	48

<i>Physical Properties</i>		
Property	Unit	Typical Value
Appearance	–	White to gray crystalline lumps or powder
Bulk Density	t/m ³	~ 1.6
True Density	t/m ³	~ 2.8 – 2.9
Mohs Hardness	–	3.5 – 4.0
Moisture Content	%	≤ 1.0
pH (10 % suspension)	–	8.5 – 9.5
Natural Dolomite Raw & Powder		Applications
		