



09 DOLOMITE



PRODUCT DESCRIPTION

Dolomite is a naturally occurring carbonate mineral composed of calcium magnesium carbonate [CaMg(CO₃)₂]. It is widely used in steelmaking, glass, ceramics, agriculture, construction, refractory, and environmental applications due to its purity, thermal stability, and consistent chemical composition.

CHEMICAL COMPOSITION (XRF ANALYSIS)

COMPONENT	wt%
CaO	30.0 – 33.0
MgO	20.0 – 22.0
CO ₂	44.0 – 47.0
SiO ₂	1.0 – 2.0
Al ₂ O ₃	0.3 – 0.8
Fe ₂ O ₃	0.2 – 0.5
K ₂ O	0.05 – 0.15
Na ₂ O	0.05 – 0.15
MnO	≤ 0.05
P ₂ O ₅	≤ 0.03
LOI (Loss on Ignition)	46.0 – 48.0

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

PHYSICAL PROPERTIES

PROPERTY	UNIT	TYPICAL RANGE
Appearance	–	White to light gray crystalline
Specific Gravity	g/cm ³	2.85 – 2.90
Bulk Density	g/cm ³	1.4 – 1.6
Hardness (Mohs)	–	3.5 – 4.0
Water Absorption	%	≤ 0.5
Melting Point	°C	> 1800
Refractoriness	°C	≥ 1500
pH (10% Slurry)	–	8.5 – 9.5
Whiteness	%	80 – 92
Particle Size	–	As per customer requirement

APPLICATIONS

- STEEL INDUSTRY**
Used as flux in iron & steelmaking to remove impurities and improve lining performance.
- GLASS INDUSTRY**
Acts as a stabilizer and flux to enhance chemical durability and reduce melting temperature.
- CERAMICS INDUSTRY**
Used in ceramic bodies, glazes, and tiles to improve whiteness, hardness, and strength.
- AGRICULTURE**
Used as soil conditioner and magnesium source to improve crop yield.
- CONSTRUCTION INDUSTRY**
Used in cement, concrete, asphalt, and road base applications.
- ENVIRONMENTAL APPLICATIONS**
Used in flue gas desulfurization (FGD) and water treatment.

AVAILABLE FORMS & PARTICLE SIZES

LUMP 10 – 50 mm	GRANULAR 2 – 10 mm	10 MESH 2.00 mm	30 MESH 600 µm	100 MESH 150 µm	200 MESH 75 µm	325 MESH 45 µm	400 MESH 38 µm

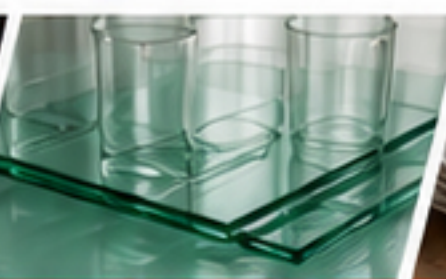
i Other sizes available upon request.

PACKAGING

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



STEEL INDUSTRY



GLASS INDUSTRY



CERAMICS INDUSTRY



AGRICULTURE



CONSTRUCTION



ENVIRONMENTAL