Calcium Carbonate Specification

Description:

Calcium Carbonate ($CaCO_3$) is a fine, white, inorganic mineral derived from high-purity natural limestone.
It is widely used as a filler, coating pigment, and extender due to its high brightness, controlled particle size, and chemical purity.
This product is suitable for use in the paint, plastic, paper, construction, and chemical industries.

Applications:

- Paint & Coating Industry: As a pigment extender and filler to improve opacity, brightness, and rheology.
- Plastic & Polymer Industry: As a reinforcing filler to improve stiffness and reduce production costs.
- Paper Industry: Used in coating and filling to enhance brightness, opacity, and printability. • Construction Materials: In dry mortars, sealants, adhesives, decorative plasters, and flooring compounds.
- Chemical Industry: As a neutralizer, buffering agent, and calcium source in formulations.

Packing:

- Palletized bag in container
- 1 m^3 jumbo bags in container

Health and Safety:

- Non-toxic and chemically stable.
- Avoid inhalation of fine dust; use protective mask and goggles.
- Wash hands after handling.
- Dispose of waste material according to local environmental regulations.

Chemical Composition (XRF Analysis)

Component	Unit	Typical Content
$CaCO_3$	%	98.9 – 99.5
CaO	%	55
$MgCO_3$	%	≤ 0.3
Fe_2O_3	%	≤ 0.05
SiO_2	%	≤ 0.5
Al_2O_3	%	≤ 0.1
Loss on Ignition (L.O.I)	%	43 – 44

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Physical Properties

Property	Unit	Specification
Appearance	—	Fine white powder
Brightness (ISO 2470)	%	≥ 95
Residue on 325 mesh	%	≤ 0.1
Specific Gravity	g/cm³	2.70 – 2.75
Moisture Content	%	≤ 0.3
Oil Absorption (ASTM D281)	g/100 g	12 – 18
Bulk Density	g/cm³	0.85 – 1.0

Raw & Powder	Applications
	

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