

05 CALCIUM CARBONATE



PRODUCT DESCRIPTION

Calcium Carbonate (CaCO_3) is a white, odorless, and tasteless mineral widely used as a functional filler in various industries. It is available in precipitated (PCC) and ground (GCC) forms with different particle sizes to meet diverse industrial requirements.

CHEMICAL COMPOSITION (XRF ANALYSIS)

COMPONENT	wt%
CaCO_3	95.00 - 98.00
SiO_2	0.20 - 1.00
Al_2O_3	0.10 - 0.50
Fe_2O_3	0.05 - 0.20
MgO	0.10 - 0.50
K_2O	0.01 - 0.05
Na_2O	0.01 - 0.05
SO_3	0.01 - 0.05
L.O.I (Loss on Ignition)	43.00 - 44.50

PHYSICAL PROPERTIES

PROPERTY	UNIT	TYPICAL RANGE
Appearance	—	White fine powder
Whiteness	%	90 - 97
Assay (CaCO_3)	%	95 - 98
Moisture Content	%	≤ 0.5
Bulk Density	g/cm^3	0.6 - 1.0
Oil Absorption	g/100g	15 - 25
pH (10% Slurry)	—	8.5 - 9.5
Specific Gravity	g/cm^3	2.70 - 2.75
Hardness (Mohs)	—	3
Particle Size (D50)	μm	1 - 10 (GCC) 0.2 - 2 (PCC)

APPLICATIONS

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PAINTS & COATINGS
 Used as an extender and filler to improve opacity, brightness, and durability.
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PLASTICS & RUBBER
 Enhances rigidity, dimensional stability, and surface finish in plastic and rubber products.
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PAPER INDUSTRY
 Improves brightness, smoothness, and printability; reduces production costs.
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CONSTRUCTION MATERIALS
 Used in putty, tile adhesive, sealants, and cement products as a filler.
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PHARMACEUTICAL & FOOD
 Used as an excipient and anti-caking agent in pharmaceutical and food applications (food grade).
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AGRICULTURE
 Soil conditioner and source of calcium for plant nutrition.

AVAILABLE FORMS & PARTICLE SIZES



i Other particle sizes available upon request.

PACKAGING

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

