



CALCIUM CARBONATE



We are proud to reckon as one of the topmost Ground calcium carbonate Exporters from India. We offer finest quality Calcium Carbonate Powder that is known for its purity, whiteness and free flowing nature. Used in various applications such as in rigid PVC pipes, pain, ink, powder coating and ceramic industry. Good dispersion properties of Natural Calcium Carbonate Powder make it widely recommended by our esteemed customers. In addition to this, Calcium Carbonate Powder is also available in different quantities and packing as per the requirements of patrons. Natural Calcium Carbonate Powder can be obtained at the most competent prices.

Typical Properties of Calcite :

- Higher flow properties
- Higher mechanical properties in thermoplastic applications
- Better gloss and whiteness in Paints & Powder coating applications
- Excellent dispersion properties
- Prevents chalking
- Better corrosion resistance

Application of Calcite :

Phone: 09560734700 || 09205664610,

E – Mail : galaxyglobalminerals@gmail.com; Website: www.galaxyglobal.in

Head Office: 43, Apna Shalimar, Alwar, Rajasthan, 301001;

Corporate Office: 16, E1.1, Vatika INXT, Sector 82, Gurugram, NCR



PP master batches, Automotive & Furniture compounds

LDPE masterbatches

Rigid PVC Pipes

Leather Cloth Industry

Paints, Inks, Powder Coating & Ceramic Industry

Rubber Industry

As a flux in Glass Industry & in sizing of Textile goods

Our grades of Calcite powder are available in 300 Mesh to 700 Mesh BSS standard & in Micronize grades, Our grades are available in top cut 5, 10, 15 & 20 Microns.

Chemical Composition Of Calcite :

CaCO₃ 90% to 97%

MgO 1.5% to 2.5%

Silica 1 % to 3.5%

Variation of the specifications stated due to natural raw materials & environment conditions are possible. though they have no influence on the application properties described.

Surface Treated Calcite

We also do coating on Calcite powder. We provide coating of Steric Acid. The Coated Calcium Carbonate powder is used in plastic compounds manufacturing to avoid moisture contains. Coating is done from 1% to 3% or as per customer requirement.

Typical Properties of Surface Treated Calcite :

Rapid and complete dispersion

Low abrasion at higher loading

Low moisture content

Good compatibility with Polymers & other additives

Increased flow rate

Reduced plasticizers & other additives

Better HDT

Better Impact strength

Better dispersion

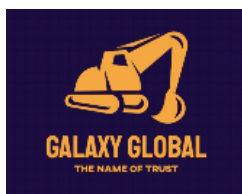
Lower raw material cost

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APPLICATION OF CALCIUM CARBONATE

Paper, Plastics, Paints, and Coatings:- Calcium carbonate is the most widely used mineral in the paper, plastics, paints and coatings industries both as a filler – and due to its special white color - as a coating pigment. In the paper industry it is valued worldwide for its high brightness and light scattering characteristics, and is used as an inexpensive filler to make bright opaque paper. Filler is used at the wet-end of paper making machines, and calcium carbonate filler allows for the paper to be bright and smooth. As an extender, calcium carbonate can represent as much as 30% by weight in paints. Calcium carbonate also is used widely as a filler in adhesives, and sealants.

Personal Health and Food Production:- Calcium carbonate is used widely as an effective dietary calcium supplement, antacid, phosphate binder, or base material for medicinal tablets. It also is found on many grocery store shelves in products such as baking powder, toothpaste, dry-mix dessert mixes, dough, and wine. Calcium carbonate is the active ingredient in agricultural lime, and is used in animal feed. Calcium carbonate also benefits the environment through water and waste treatment.

Building Materials and Construction:- Calcium carbonate is critical to the construction industry, both as a building material in its own right (e.g. marble), and as an ingredient of cement. It contributes to the making of mortar used in bonding bricks, concrete blocks, stones, roofing shingles, rubber compounds, and tiles. Calcium carbonate decomposes to form carbon dioxide and lime, an important material in making steel, glass, and paper. Because of its antacid properties, calcium carbonate is used in industrial settings to neutralize acidic conditions in both soil and water.

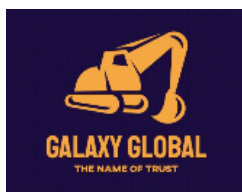
SPECIFICATIONS

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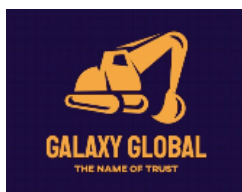
<u>PRODUCT</u>	<u>GROUNDING CALCIUM CARBONATE POWDER</u>
Rates in INR Per Tonne:	4600 To 7400
Particle Size:	20 Microns To 2 Microns
State:	Powder
Whiteness:	92-95%
Brightness:	93% Min
Purity:	75% / 85% / 95%
Calcium Carbonate as CaCO₃:	75% - 95%
Silica as SiO₂:	1 - 3.5%
Magnesium Carbonate as MgCO₃:	0.4% - 3%
Aluminium Oxide as Al₂O₃:	0.1-0.5
Sodium Oxide as Na₂O:	< 0.05
Sulphate as SO₄:	0.02 % Max
Chloride as Cl:	Traces
Iron (Fe):	< 100 ppm
Calcium oxide as CaO:	1.5% to 2.5%
Magnesium Oxide as MgO:	1.5% to 2.5%
CaCl₂:	0.6 to 0.8
Appearance/Color:	White
IUPAC Name:	Calcium carbonate
Other Name:	Calcite
Molecular Weight:	100.0869 g/mol
Molecular Formula:	CaCO₃
Grade Standard:	Industrial Grade
pH Value:	8.5 to 8.8
Refractive index:	1.59
Specific Gravity:	2.5 - 2.7
Melting Point:	1,339 C
Boiling point:	Decomposes
Loss on ignition:	43% - 44%

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Loss of Drying	0.4 Max
Lumps:	Available
Solubility:	Max 1%
Bulk Density:	0.9-1.35
Oil absorption value:	40 to 50%
Fe, Al,PO4 Matter Insoluble:	Max. 0.5%
Soluble Alkali as Na2O:	Max. 0.2%
Acid Insoluble:	Soluble
Volatile Matter:	Min 96%
Solubility in water	0.0013 g/100 mL (25°C)
Density:	2.711 g/cm³ (calcite), 2.83 g/cm³ (aragonite)
Odor:	Odorless

GALAXY GLOBAL

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OUR PRODUCTS:

**DOLOMITE || CALCITE || SOAP STONE || CHINA CLAY ||
CALCIUM CHLORIDE || CALCIUM CARBONATE || MARBLE CHIPS**

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