

SPECIFICATION

Product Name: Calcium Carbonate DC Granules IP/BP/USP Grade
Chemical Formula: CaCO ₃
CAS Number: 471-34-1
Molecular Weight: 100.09 g/mol
Appearance: White Crystalline Powder.
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Complies	To Complies with Test
Chloride	PPM	<330	Max 330
Fluoride	%	0.0025	Max 0.005
Sulphate	%	<0.25	Max 0.25
Arsenic	PPM	<3.0	Max 3.0
Barium	-	Complies	To Complies with Test
Heavy Metals (as Pb)	PPM	<20	Max 20
Iron	PPM	<200	Max 200
Lead	PPM	Complies	Max 0.125
Cadmium	PPM	Complies	Max 1.0
Mercury	PPM	Complies	Max 0.5

Assay as CaCO ₃	%	92.6	Min 92.5
As Ca	%	37.32	Min 37.0
Magnesium and Alkali Metals	%	0.62	Max 2.0
Sb+Cu+Cr+Zn+Ba	mg/kg	Complies	Max 100
Loss on Drying(1g.105°,4H)	%	0.74	Max 2.0
Organic Volatile Impurities	%	Complies	To Complies with Test
Physical Analysis			
Particle Size/Sieve Analysis	IH	0.0 43.7 80.0	2.0% Max Retained on 16# 75.0% Max Retained on 60# 80.0% Max Retained on 200#
Tapped Density	IH	1.40	0.95g/ml Min

Physical Properties

- Solubility: Practically insoluble in water, insoluble in alcohol. Readily soluble with effervescence in dilute acids.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a well-closed container. Keep in a cool, dry place. Protect from moisture and humidity. Store at room temperature. Keep away from strong acids and acidic vapors.

Applications

- Use: Diluent/filler in tablets and capsules. Used in antacid tablets. Acts as a binder and bulking agent. Widely used in calcium supplement tablets. Suitable for high-dose calcium tablets due to good compressibility.
- Dosage: Depends on whether it's used as an active ingredient (calcium/antacid) or as an excipient (DC filler).

Packaging

- Standard Packing: 25 kg woven PP bags with inner liner, 1 kgs and 100 grams, or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.