

SPECIFICATION

Product Name: Precipitated/ Light Calcium Carbonate BP/USP Grade
Chemical Formula: CaCO ₃
CAS Number: 471-34-1
Molecular Weight: 100.09 g/mol
Appearance: White powder.
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value
Purity	%	99%
Particle Size	-	Microfine particles, typically in the range of 2-5 microns
Bulk Density	g/cm ³	0.4 - 0.6 g/cm ³
Moisture	%	≤ 0.2%
pH (10% Suspension)	-	8.0 - 9.5
Loss on Drying	%	≤ 0.2%
Acid Insoluble Substances	%	≤ 0.1%
Heavy Metals (as pb)	PPM	≤ 20 PPM
Lead Content	PPM	≤ 3 PPM

Arsenic Content	PPM	≤ 1 PPM
Barium Content	%	$\leq 0.03\%$
Fluoride Content	%	$\leq 0.005\%$

Physical Properties

- Solubility: Practically insoluble in water, insoluble in alcohol. Soluble in dilute acids.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a cool, dry, and well-ventilated place. Keep container tightly closed to prevent moisture absorption and contamination. Protect from humidity and direct sunlight. Avoid contact with acids, as it reacts with them.

Applications

- Use: Widely used as a diluent/filler in tablets and capsules. Neutralizes excess stomach acid in formulations. Provides elemental calcium in dietary supplements. Improves flowability and compressibility during tablet production. Helps maintain and adjust pH in formulations. Used in some formulations to support active ingredient distribution.
 - Dosage: Depends on age, health condition, and dietary intake. Excess intake may lead to constipation, hypercalcemia, or kidney issues.

Packaging

- Standard Packing: 50 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.