

SPECIFICATION

Product Name: Precipitated/ Light Calcium Carbonate IP 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
CaCO ₃ Content	%	98.54%
Brightness	%	94.5%
Whiteness	%	96.5%
Bulk Density	Gm/ml	0.50
Fineness residue on sieve by wight	%	99.8% on 305 mesh
Mean particle size	-	4-5 Micron
Water Absorption	Cc/gm	70 cc/100 gm
Alkalinity	%	Max 0.03%
Moisture	%	0.50%

Specific Gravity	-	2.70
Solution in Hydrochloric Acid 5 N	%	0.3%
PH	-	9.50
Loss on drying at 105°C + 5°C	%	Max 0.5%
Iron as Fe	PPM	Less than 200 PPM
Silica as SiO ₂	%	Max 0.5%

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: Used as a diluent/filler in tablets and capsules. Neutralizes excess stomach acid. Provides elemental calcium in nutraceutical products. Improves compressibility and flow properties. Used for calcium fortification and as a whitening agent.
- Dosage: Depends on age, medical condition, and dietary intake.

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.