

SPECIFICATION

Product Name: Precipitated Calcium Carbonate IP/BP/USP/JP Grade
Chemical Formula: CaCO ₃
CAS Number: 471-34-1
Molecular Weight: 100.09 g/mol
Appearance: A fine, white, microcrystalline powder.
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specifications Min./Max.
Identification A	-	Complies	Given reaction A and B of calcium sells
Identification B	-	Complies	It gives reaction (A) of carbonates
Substance Insoluble in acetic acid	%	0.13%	NMT 0.2%
Arsenic	PPM	Less than 4 PPM	NMT 4 PPM
Heavy metals	PPM	Less than 20 PPM	NMT 20 PPM
Barium		Complies	The solution remains clear for not less than 15 times
Iron	PPM	Less than 200 PPM	NMT 200 PPM
Magnesium and alkali metals	%	0.56%	NMT 1.0%
Chlorides	PPM	Less than 250 PPM	NMT 250 PPM
Sulphate	%	0.18%	NMT 0.3%
Loss on drying	%	1.23%	NMT 2.0%

Assay	%	99.52 %	NLT 98.0% to NMT 100.5%
Bulk Density	g/ml	Complies	0.44 g/ml to 0.55 g/ml

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 HDPE bags with inner liner 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.