

SPECIFICATION

Product Name: Egg Shell Calcium Carbonate
Chemical Formula: CaCO ₃
CAS Number: 471-34-1
Molecular Weight: 100.09 g/mol
Appearance: White or almost white fine powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Complies	Positive for Calcium
Assay (as Calcium Carbonate, CaCO ₃)	%	97.5%	NLT 95.0%
Calcium Content (as Ca)	%	38.8%	NLT 37.0%
Loss on Drying	%	0.5%	NMT 2.0%
Loss on Ignition	%	43.5%	NMT 45.0%
pH (10% Suspension)	-	9.2	8.0 – 10.5
Acid Insoluble Matter	%	0.1%	NMT 0.5%
Heavy Metals (as Pb)	PPM	< 5 PPM	NMT 20 PPM
Lead (Pb)	PPM	< 1 PPM	NMT 3 PPM
Arsenic (As)	PPM	< 0.5 PPM	NMT 1 PPM

Cadmium (Cd)	PPM	< 0.1 PPM	NMT 1 PPM
Mercury (Hg)	PPM	< 0.05 PPM	NMT 0.1 PPM
Iron (Fe)	%	0.02%	NMT 0.1%
Particle Size	-	95% Passes 200 Mesh	As per customer requirement
Bulk Density	g/ml	0.75 g/mL	0.60 – 1.00 g/mL

Physical Properties

- Solubility: Practically Insoluble in water. Insoluble in ethanol. Insoluble in acetone. Insoluble in ether. Insoluble in methanol. Insoluble in acetone.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed container in a cool, dry, and well-ventilated place, protected from moisture, contamination, and acidic environments.

Applications

- Use: Widely used in pharmaceutical, nutraceutical, food, and dietary supplement formulations to support calcium nutrition and bone health.
- Dosage: Depends on Age and nutritional requirements, Desired elemental calcium intake, Product formulation, Intended application, Regulatory requirements.

Packaging

- Standard Packing: 25 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.