

## SPECIFICATION

<b>Product Name:</b> Calcium Carbonate Oystershell BP Grade
<b>Chemical Formula:</b> CaCO <sub>3</sub>
<b>CAS Number:</b> 471-34-1
<b>Molecular Weight:</b> 100.0869 g/mol
<b>Appearance:</b> White or almost white fine powder
<b>Odor:</b> Odorless

### Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Complies	BP Test
Assay (as CaCO <sub>3</sub> )	%	99.2%	98.0% – 100.5%
Elemental Calcium	%	39.2%	NLT 38.0%
Loss on Drying	%	0.4%	NMT 2.0%
Acid Insoluble Substances	%	0.05%	NMT 0.2%
Magnesium & Alkali Salts	%	0.30%	NMT 1.0%
Chlorides	PPM	120 PPM	NMT 330 PPM
Sulphates	PPM	180 PPM	NMT 500 PPM
Iron	PPM	35 PPM	NMT 200 PPM
Heavy Metals	PPM	<10 PPM	NMT 20 PPM
Arsenic	PPM	<1 PPM	NMT 3 PPM

Lead	PPM	<1 PPM	NMT 3 PPM
Mercury	PPM	<0.1 PPM	NMT 1 PPM
Cadmium	PPM	<0.1 PPM	NMT 1 PPM
Particle Size	-	95% Passes 325 Mesh	As per customer requirement
Bulk Density	g/ml	0.85 g/ml	Informative
Tapped Density	g/ml	1.15 g/ml	Informative
pH (10% Suspension)	-	9.1	8.0 – 10.0
<b>Microbiological Analysis</b>			
Total Aerobic Plate Count	cfu/g	<100 cfu/g	<1000 cfu/g
Total yeast & Mould Count	cfu/g	<10 cfu/g	<100 cfu/g
Escherichia coli	Absent/g	Absent	Absent/g
Salmonella spp.	Absent/g	Absent	Absent/25 g
Staphylococcus aureus	Absent/g	Absent	Absent/g

### **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. It provides a rich source of elemental calcium and is valued for its natural oyster shell origin.

-Dosage: Depends on Age and nutritional requirements, Desired elemental calcium intake, Product formulation, Intended application, Regulatory requirements.

**Packaging**

- Standard Packing: 25 kgs pp bag 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.