

SPECIFICATION

Product Name: Calcium Carbonate (Coral)
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	Specification (Min./Max.)
Identification (A) (B)	- -	Complies Complies	(A) Gives reaction of calcium salts. (B) Gives reaction of carbonates.
Acidity or alkalinity	-	Complies	1g. boiled with 50ml. of water and filtered, yields a filtrate which is neutral to bromothymol blue solution or required NMT 0.05ml. of 0.1M HCL.
Arsenic	PPM	Complies	NMT 4 PPM
Heavy metals	PPM	Complies	NMT 40 PPM
Chlorides	PPM	Complies	NMT 330 PPM
Sulphate	%	Complies	NMT 0.12%
Loss on drying	%	0.23%	NMT 1.0% @ 105°C
Assay as CaCO ₃	%	98.84%	NLT 97.0 % & NMT 100.5% - CaCO ₃
Total calcium (as ca)	-	39.40	NLT 39.2 & NMT 40.2

Physical Properties

- Solubility: Insoluble in water. Soluble in hydrochloric acid. Soluble in acetic acid. Insoluble in ethanol. Insoluble in acetone.

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 at 15–30°C. Protect from moisture, excessive humidity, direct sunlight, and contamination. Keep the container tightly closed in the original, properly labeled packaging to prevent moisture absorption and caking. Store away from strong acids and incompatible materials, as acids react with calcium carbonate. Proper storage helps maintain the product's purity, free-flowing properties, mineral content, and stability.

Applications

- Use: Widely used as a natural source of calcium and trace minerals in pharmaceutical, nutraceutical, food, and dietary supplement formulations. It supports bone and teeth health, normal muscle function, nerve transmission, and overall mineral balance. It is commonly incorporated into calcium supplements, tablets, capsules, powders, sachets, chewable tablets, fortified foods, and functional beverages.
- Dosage: Depends on the intended use, age, dietary calcium intake, and formulation.

Packaging

- Standard Packing: 25 Kgs woven pp bag 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.