

SPECIFICATION

Product Name: Calcium Sulphate Dihydrate Food Grade
Chemical Formula: $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
CAS Number: 10101-41-4
Molecular Weight: 172.17 g/mol
Appearance: White to almost white powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specifications Min./Max.
Identification	-	Passes	To comply with the identification test for Calcium and Sulphate
Assay, on dried basis (as CaSO_4)	%	99.1%	98.0 - 101.0%
Acidity or Alkalinity	-	Passes	To pass test
Loss on ignition, 800°C	%	19.8%	18.0 - 22.0%
Chloride	PPM	200 PPM	Max. 300 PPM
Arsenic	PPM	5 PPM	Max. 10 PPM
Iron	PPM	50 PPM	Max. 100 PPM
Heavy Metals as pb	PPM	10 PPM	Max. 20 PPM
Particle size	-	Passes	95% passing through 50 mesh

Physical Properties

- Solubility: Soluble in water. Insoluble in ethanol. Insoluble in methanol. Insoluble in acetone. Insoluble in ether. Insoluble in chloroform.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.

- Storage Conditions: Store in a tightly closed, moisture-resistant container in a cool, dry, and well-ventilated place, protected from moisture, heat, direct sunlight, and contamination.

Applications

- Use: Widely used as a firming agent, coagulant, dough conditioner, anticaking agent, and mineral fortificant in the food, nutraceutical, and pharmaceutical industries.

- Dosage: Depends on Desired calcium level, Product formulation, Processing requirements, Regulatory limits, Sensory characteristics, Intended technical function.

Packaging

- Standard Packing: 25 Kgs 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.