

SPECIFICATION

Product Name: Calcium Stearate BP Grade
Chemical Formula: Ca(C ₁₈ H ₃₅ O ₂) ₂
CAS Number: 1592-23-0
Molecular Weight: 606.61 g/mol
Appearance: White free flowing powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Acidity Or Alkalinity	-	Complies with BP	NMT 0.5 ml of 0.01 M Hcl or 0.01 M NaOH Required for Change the color.
Identification			
Test A	°C	A - 59 °C	Freezing Point-53°C Min Acid Value between 195-210
Test B	-	B – 205	
Test C	-	C- Complies with BP	
Test D	-	D- Complies with BP	
Chloride	%	Complies with BP	Max. 0.1%
Sulphates	%	Complies with BP	Max. 0.3%
Cadmium	PPM	2.6 PPM	Max. 3.0 PPM
Lead	PPM	8.4 PPM	Max. 10.0 PPM
Nickel	PPM	3.5 PPM	Max. 5.0 PPM
Loss on Drying	%	2.60%	Max. 6.0%
Microbial Contamination	cfu/g	Complies with BP	TAMC-NMT 103, TYMC-NMT 102, Salmonella & Escherichia Coli Absent
Assay As Ca	%	7.39%	6.4 -7.4

Fatty Acid Composition 1. Stearic Acid Sum of Palmitic acid +St.Acid	%	41.4% 94.2%	For 1. NLT 40% For 2. NLT 90% NLT=Not Less Than
Particle Size Distribution	-	Complies with BP	Passes
Specific Surface Area	-	Complies with BP	0.05 – 0.15

Physical Properties

- Solubility: Practically Insoluble in water. Insoluble in ethanol. Insoluble in acetone. Insoluble in ether. Slightly soluble in chloroform. Practically insoluble in methanol.

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 excessive heat.

Applications

- Use: Widely used as a lubricant, anti-caking agent, flow enhancer, and stabilizer in pharmaceutical, nutraceutical, food, cosmetic, and industrial applications.
- Dosage: Depends on Formulation type, Manufacturing process, Compression characteristics, Active ingredient properties, Regulatory requirements.

Packaging

- Standard Packing: 25 kg HDPE with inner liner or as per customer requirement.
- Labelling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.