

SPECIFICATION

Product Name: Colloidal Silicon Dioxide BP Grade
Chemical Formula: SiO ₂
CAS Number: 7631-86-9
Molecular Weight: 60.08 g/mol
Appearance: A light fine white amorphous powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Complies	It gives reaction of silicates.
pH	-	4.65	3.5 – 5.5
Chloride	PPM	Complies	Max. 250 PPM
Loss on Ignition	%	3.29%	Max. 5.0%
Assay	%	99.20%	99.0% - 100.5%
Description	-	Complies	It has a particle size of 15nm.

Physical Properties

- Solubility: Practically Insoluble in water. Insoluble in ethanol. Insoluble in acetone. Insoluble in ether. 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, humidity, and contamination.

Applications

- Use: Widely used as a glidant, anti-caking agent, adsorbent, moisture scavenger, and viscosity-modifying agent in pharmaceutical, nutraceutical, food, and cosmetic formulations.
- Dosage: Depends on Powder flow characteristics, Moisture sensitivity of ingredients, Manufacturing process, Formulation type, Regulatory requirements.

Packaging

- Standard Packing: 10 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.