

SPECIFICATION

Product Name: Guar Gum SG-250
Chemical Formula: $(C_6H_{10}O_5)_n$
CAS Number: 9000-30-0
Molecular Weight: 200000 – 250000 Da
Appearance: Off white powder
Odor: Odorless

Chemical Composition

Parameter	Unit	Typical Value
Moisture	%	Max. 10%
Protein	%	Max. 5%
Fiber	%	Max. 3%
Fat	%	Max. 0.6%
Ash	%	Max. 1.5%
Acid Insoluble Residue	%	Max. 3%
Gum Content	%	Min. 84%
PH	-	5.5 – 8
Lead	PPM	Max. 2 PPM
Arsenic	PPM	Max. 2 PPM
Mercury	PPM	Max. 1 PPM
Cadmium	PPM	Max. 1 PPM

Total Heavy Metals	PPM	Max. 10 PPM
Particle Size (Through 200 mesh sieve)	%	Min. 95%
Microbiological Analysis		
Total Plate Count	gm	Max. 5000/gm
Yeast & Mould	gm	Max. 500/gm
E. coli	-	Nil
Salmonella	-	Nil

Physical Properties

- Solubility: Soluble in water. Insoluble in alcohol. Soluble in glycerol. Insoluble in organic solvents.

Shelf Life & Storage

- Shelf Life: 2 Years from date of manufacture under recommended storage.
 - Storage Conditions: Store in a cool, dry and well-ventilated place, protected from direct sunlight, heat and moisture. Keep the product in tightly closed, moisture-resistant packaging to prevent moisture absorption and lump formation. Avoid exposure to excessive humidity and strong odors. Recommended storage temperature: below 25°C.

Applications

- Use: Widely used as a thickening, stabilizing, suspending, emulsifying, and water-binding agent. It is commonly used in food and beverages, dairy products, sauces, dressings, bakery products, ice cream, instant foods, pharmaceutical formulations, nutraceuticals, cosmetics, personal-care products, and various industrial applications.
 - Dosage: Depends on the application and desired viscosity. In food and beverage formulations, commonly used levels are around 0.2–0.5% w/w.

Packaging

- Standard Packing: 25 Kgs HDPE paper 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.