

TECHNICAL DATA SHEET

Chitosan

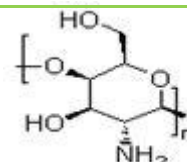
High Viscosity

Chemical Properties

Synonym: Poly (beta-(1,4)-2-amino-2-deoxy-D-glucose);
Poly (beta-(1,4)-D-glucosamine).

CAS NO.: 9012-76-4

Molecular Formula: (C₆H₁₁NO₄)_n



Description

Chitosan is a linear polysaccharide composed of randomly distributed β -(1-4)-linked D-glucosamine (deacetylated unit) and N-acetyl-D-glucosamine (acetylated unit). It is made by treating shrimp and other crustacean shells with the alkali sodium hydroxide.

Solubility

It's soluble in dilute aqueous acid.

Specification

Item	Specification	Test Method
Appearance	White powder	Visual
Deacetylated Degree	Min 80.0%	GB 29941-2013
Viscosity(1%-1%)	Min 4000cps	GB 29941-2013
Visibility	Min 30cm	In-house
Insolubles	Max 1%	GB 29941-2013
Particle size	Min 90% pass 6mesh	In-house
Moisture	Max 10%	GB 29941-2013
Ash	Max 1%	GB 29941-2013
Heavy Metals	Max 10 ppm	GB 29941-2013
Arsenic (As)	Max 0.5ppm	GB 29941-2013

Ingredients

Chitosan min 80%.

Labeling

In the United States and the European Union: Chitosan

Functions

- 1). It can control cholesterol.
- 2). It can inhibit bacterial activity.

- 3). It can prevent and control high blood pressure.
- 4). It can adsorb and excrete heavy metals.

Applications

This product can be used in cosmetics, food, medicine and health products.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

Handling recommendations

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

Packaging, Storage & Shelf Life

Package	25kg/drum; or according to customers' requirements.
Storage	In a non-metallic container, protected from light.
Shelf life	2 years if sealed and stored properly.