



## Technical Data Sheet

Product Name	Chitosan			
CAS No	9012-76-4			
Molecular Structure	C <sub>6</sub> H <sub>11</sub> NO <sub>4</sub> X <sub>2</sub>			
Specification		FOOD GRADE	TECH GRADE	WATER SOLUBLE
	Appearance	Off white	Off white or grey	White or yellowish
	Granularity	Powder or flake	Powder or flake	Powder or flake
	Moisture content	<10%	≤10%	≤15%
	Ash content	<1%	≤2.0%	≤1.0%
	Insoluble	<1%	≤2.0%	≤1.0%
	Deacetylation degree	>85%; 90%; 95%	≥80%;	≥85%
	Viscosity(1%) mpa.s	<200	30-1000	≤100
	Size mesh	80-100	80	60,80,100
	Packing	25kg/drum	25kg/drum	25kg/drum
Application	<p>Used in functional food products. As a natural anti-microbial agent and as an edible food coating agent.</p> <p><b>1.Beverages</b> Chitosan is used for the clarification of fermented beverages, and as a flocculant agent to avoid juice, wine and beer to be hazy.</p> <p><b>2.Biomedical</b> Chitosan is shown to be a unique hemostatic and antibacterial barrier. Chitosan is positive charge; it attracts the red blood cells which have a negative charge making an efficient hemostatic agent. The red blood cells create a seal over the wound, stop bleeding quickly and start the healing process. Chitosan is effective in treating acute skin burns, in healing chronic wounds and in external ulcers. Chitosan is used in veterinarian products, such as in wound care and mastitis prevention, based on its effective anti-microbial actions.</p> <p>Chitosan is of pharmaceutical interest because of its positive attributes with respect to drug delivery, toxicity, biocompatibility and bioavailability.</p> <p><b>3.Nutritional</b> Chitosan is an excellent fat trapper due to its remarkable property of binding with lipids and fats. Chitosan attaches itself to fat and forms a large mass preventing its absorption into digestive tract. The large lump is finally eliminated from the body. It has the ability to lower the calorie effect of foods, helps in overcoming problems relating to obesity and cardiovascular difficulties.</p>			
Storage	Store in a well-closed container at cool and dry place. Protect from light, moisture and pest infestation.			