

Functional Natural Polymer

► Characteristics

- Chitosan has many reactive amino groups. These amino groups allow chemical modifications. They form corresponding salts with various acids and confer cationic property. Because of these cationic properties, chitosan has been used for many years as a cationic flocculant useful in a variety of industrial fields, for example, purification, precipitation and effective filtration in the food industry, and wastewater treatments in various industries.
- In recent years, developments of applied products have been actively made in various fields to use the functions of chitosan, such as biocompatibility, non-toxicity, antimicrobial activity, moisturizing capacity, deposition mechanism, deodorant efficacy, and moisture-absorptive and -desorptive behaviors.
- We have established a system to manufacture chitosans from crab shells in a continuous process and supply the high quality products to the market. And we can provide custom-made products according to your quality plan.
- We can also develop chitin / chitosan derivatives according to your request.

► Representative Products

Classification	Product name	Grade	Viscosity(mPa·s)
Chitosan	H	High viscosity product	More than 600*1
	M	Medium viscosity product	200 ~ 600*1
	PVL	Low viscosity product	7±2*2
	VLA	Very low viscosity product	5±1*2
High-deacetylated chitosan	100D	Medium viscosity product	25 ~ 100*1
	100D(VL)	Very low viscosity product	5 ~ 10*2
Powdered chitosan	80M	80 Mesh-pass powder	—
	320M	320 Mesh-pass powder	—
	FP	Ultra-fine powder	—
Chitin	DS	Standard product	—
	P-DL	Purified product	—
Chitosan water dispersion	FP slurry	Ultra-fine particle product	—
Chitosan solution	W-10	High Concentration product (10% aqueous solution)	100 ~ 5,000
	W-3	Medium concentration product (3% aqueous solution)	50 ~ 5,000
Chitin & Chitosan derivatives	Pyrrolidone carboxylic acid salt	Chitosan derivative	—
	Carboxymethyl chitin	Chitin derivative	—
	Cationized chitosan	Chitosan derivative	—
	Lactic acid salt	Chitosan derivative	—
Agricultural seed coloring		Seed coloring (red/green/yellow)	—

*1 : Chitosan purity 0.5wt%, acetic acid 0.5wt% aqueous solution, 20°C, measured by B-type viscometer.

*2 : Chitosan purity 1wt%, acetic acid 1wt% aqueous solution, 20°C, measured by B-type viscometer.

► Application

- Applicable to cosmetics, coatings, papers, fabrics, agriculture, wastewater purification, water treatment agent, etc.
- Applicable to various coating agents providing unique functions on the material surface, and for personal care product field such as cosmetic raw materials.

