

## SPECIFICATION OF CHITOSAN

ITEM	Food Grade	Cosmetic Grade	Pharmaceutical Grade	Industrial Grade
Appearance	Off white powder or flake	Off white powder or flake	Off white powder or flake	Off white powder or flake
DAC Degree	85%, 90%, 95%, 98%	85%, 90%, 95%, 98%	90%, 95%, 98%	80%, 85%, 90%, 95%
Bulk Density	0.2 - 0.7 g/ml	0.2 - 0.7 g/ml	0.2 - 0.7 g/ml	0.2 - 0.7 g/ml
Viscosity	20 - 100 cps	5 - 1000 cps	100 - 1000 cps	5 - 1000 cps
Molecular Weight	20,000 - 300,000 Da Customizable	3,000 - 1500,000 Da Customizable	3,000 - 1500,000 Da Customizable	3,000 - 1500,000 Da Customizable
Solubility	Acid soluble or water soluble	Acid soluble or water soluble	Acid soluble or water soluble	Acid soluble or water soluble
Loss on drying	≤8%	≤8%	≤8%	≤10%
PH	6.5 - 8.5	6.5 - 8.5	6.5 - 8.5	6.5 - 8.5
Ash	≤1%	≤1%	≤1%	≤2%
Heavy Metals	≤10ppm	≤10ppm	≤5ppm	≤10ppm
As	≤1ppm	≤1ppm	≤1ppm	≤2ppm
Pb	≤1ppm	≤1ppm	≤1ppm	≤1ppm
Cd	≤0.5ppm	≤0.5ppm	≤0.5ppm	≤0.5ppm
Hg	≤0.5ppm	≤0.5ppm	≤0.5ppm	≤0.5ppm
Total Plate	≤1000CFU/g	≤1000CFU/g	≤1000CFU/g	≤1000CFU/g
Yeast & Mold	≤100CFU/g	≤100CFU/g	≤100CFU/g	≤100CFU/g
E.Coli.	Not detectable	Not detectable	Not detectable	Not detectable
Salmonella	Not detectable	Not detectable	Not detectable	Not detectable
Staphylococcus	Not detectable	Not detectable	Not detectable	Not detectable

