Water Treatment Chitosan Specifications

Product Name : Chitosan

Usage : Water treatment

Appearance : Off-white

CAS No : 9012-76-4

Specifications:

Items	Specifications
Appearance	Off-white
D.A.C	≥75%; ≥80%; ≥85%
Viscosity	10-3000 cps
PH	6.5-8.5
Moisture Content	≤12.0%
Insoluble Matter	≤1.0%
Ash	≤2.0%; ≤3.0%
As	≤3.0 ppm
Pb	≤5.0 ppm
Particle Size	8mm; 10-20 mesh (95% Pass); 40-60 mesh (95% Pass); 80 mesh (95% Pass)

Package & Storage:

Package: 25 Kg fiber drum

Storage: Store in a cool, dry place, away from heat and light. The shelf life: 24 months.

Applications:

In terms of removing heavy metal ions, the active groups such as amino and hydroxyl groups in chitosan molecules can chelate with heavy metal ions like copper, lead, and cadmium in water, forming stable chelates, thereby separating heavy metals from water. This method is highly efficient and selective. Moreover, chitosan has a wide range of sources, is biodegradable, and does not cause secondary pollution.

For the removal of organic substances, chitosan can be effective through adsorption, flocculation, and other actions. It can adsorb organic pollutants in water such as phenols, dyes, and pesticides. At the same time, as a flocculant, it can coagulate colloidal particles and suspended organic matter in water into large particles for precipitation and subsequent removal. For example, in the treatment of printing and dyeing wastewater,

chitosan can effectively reduce the chroma and COD value of the wastewater.

In addition, chitosan can also be used in drinking water treatment to remove turbidity, bacteria, and some organic substances in water, improving the quality of drinking water. Meanwhile, its derivatives, after modification, can further enhance their performance in water treatment, expanding their application range.