



ChitoVan 1% & 1.5% Product Specification Sheet

Purpose: This specification sheet describes the necessary characteristics for ChitoVan solutions which are used in Chitosan Enhanced Sand Filtration Systems and other applications. It has taken many years to develop the polymer, the delivery system, the regulatory background testing, the operation and training manuals, and performance results that accomplish the necessary end objectives of water clarification.

ChitoVan 1%- chitosan acetate solution (1%)

Viscosity range:	600 cps to 1200 cps (at initial production)
pH:	3.0 to 4.0
Solids content:	0.9 to 1.1%
Turbidity:	70 NTU or less

ChitoVan HV- chitosan acetate solution (1.5%)

Viscosity:	2000 cps minimum (at initial production)
pH:	3.0 to 4.0
Solids content:	1.4 to 1.6%
Turbidity:	100 NTU or less

Ingredients:

ChitoVan is a solution of a proprietary grade of chitosan, acetic acid and water. There are no additional additives for any reason. The solution is 1% chitosan in 1% acetic acid in water for the ChitoVan 1%. For ChitoVan HV, the percentages are 1.5% chitosan in 1.5% acetic acid in water. All percentages are calculated by weight.

Processing:

The ingredients are added to a tank for dissolving of the chitosan flakes. After several hours, the viscous solution is filtered to insure no particles can interfere with metering pump operations.

Usage:

The ChitoVan solutions may be metered into sand filtration systems and effluent quality measured to determine dose rates. Other applications include treatment with gravity settling, biofiltration, cartridge filtration and centrifugation.

Product shelf life is limited to 18 months unless otherwise indicated. Date of manufacture will be included on the label of each container.