



Organic Flocculants & Coagulants

Organic polymers are synthetic flocculating and coagulating agents. Polymers are manufactured in several forms (powder, granular, bead, emulsion, dewatered emulsion, and solution) and cover the complete range of cationic and anionic activity, molecular weight, and structure. They have been designed and manufactured so that most applications in municipal and industrial water and wastewater treatment can be assisted. Other applications include flotation, charge modification, thickening, and dewatering of agricultural sludge and dredged sediment in retention basins or Geotubes®.

Product Forms

Polyamines, Polyacrylamides, Copolymers with Acrylamides, Acrylic acids, Mannichs, ADAME Methyl Chloride, MADAME Methyl Chloride, DADMAC, APTAC, MAPTAC, and customized combinations of these products.

Principal Uses

- Ø Primary and secondary clarifiers,
- Ø Gravity thickeners, Dissolved air flotation, Centrifuges, Geotubes®
- Ø Dewatering of dredged sediments in retention basins or Geotubes®
- Ø Vacuum Filters, Filter presses, Belt presses, Sieve Drums, Centrifuges, Drying Beds, Geotubes®
- Ø Specialty polymers, Superabsorbents, Biopolymers, and Wet Strength Additives for Viscosity and Crystal Modification, Drainage Aids, and Retention Aids

Advantages

- Low viscosity, low settling, high activity flocculants
- Achieve exceptional cake solids and solids recovery in most sludges
- Improve production rates
- Reduce sludge handling, transportation and disposal costs
- Soluble in water; Dissolve rapidly
- Broad performance window, Perform well over a wide pH range
- NSF Approved and US EPA and MDEQ Approved & Approvable

Preparation

Prior to use, agitate thoroughly to ensure uniformity. Recommended working solution is 0.1-1.0% for solid grade polymers and 0.25-2.5% for emulsion and liquid grades, however, stock solutions can be prepared up to 2% via an automated make down unit or on a batch basis. Solutions should be aged 25 minutes for maximum effectiveness. Avoid centrifugal pumps for polymer transfer.

Handling & Storage

Recommended materials of construction include stainless steel, fiber glass, plastic and glass or epoxy-lined vessels. Do not use iron, copper or aluminum. Shelf life of these products is 6 months (liquids/emulsions) to 2 years (dry bags) when stored at temperatures between 5-30°C. For best results, avoid freezing.

Spilled polymer is very slippery and should be absorbed onto an inert material and collected prior to thoroughly flushing with water.

Shipping

Organic polymers are shipped in 450 lb. Drums (Net weight), 2,300 lb. Totes, and Bulk quantities.

Properties

Low to very high molecular weight
No structure to branched and very structured

Government Approval/Regulatory Information

For Chemical Inventory regulatory control listing information for the U.S., see the MSDS.

WaterSolve Products are currently approved for use in accordance with National Sanitary Foundation (NSF) Standards. Go to www.NSF.org or check with your state DEQ for approval procedures.

This information is for the specific material described only and may not be valid if the material is used in combination with any other materials or in any process. To the knowledge of WaterSolve LLC, the information is accurate and reliable, but WaterSolve makes no express or implied warranty of merchantability for the material or for the information. WaterSolve makes no express or implied warranty of fitness for a purpose for the material or for the information.

WaterSolve, LLC

Visit us online @ www.gowatersolve.com