



Inorganic Polymers & Coagulants

Our line of inorganic polymers and coagulants for water and wastewater treatment and the pulp and paper industry includes Aluminum-based Products, Enhanced Coagulants, Ferric Sulfate, etc. Our enhanced coagulant product line is one of the broadest in the United States. It encompasses over 25 liquid products, containing both Polyaluminum Hydroxychloride alone and in combination with organic polymers. Different coagulant grades work under different conditions to meet a range of treatment goals, from removing turbidity, color and TOC; to extending filter runs and reducing backwash waste; to decreasing sludge volumes and the use of pH adjustment chemicals. Our coagulants perform particularly well where conventional systems fail (e.g., with cold or low-alkalinity source waters) and often allow plants to reduce cost and extend operating range significantly.

Product Forms

Aluminum Sulfate, Formulated Alums, Aluminum Chloride, Polyaluminum Chlorides, Polyaluminum Hydroxychlorosulfates, Ferric Sulfate Solutions, Sodium Aluminates

Principal Uses

- Ø Municipal and Industrial Wastewater Treatment
- Ø Coagulation and Clarification
- Ø Wastewater Treatment, Phosphorus Inactivation, TOC and TSS Reduction, Lower Turbidities, Color Removal
- Ø Filtration Systems, Sludge Conditioning, Dewatering Aid, Dissolved Air Flotation
- Ø Charge Modification
- Ø Oil/Water Separation

Advantages

- Cold Water Applications
- May be Formulated to include Organic Polymers and/or High Acid Content
- Improve production rates and overall treatment costs
- Reduce sludge handling, transportation and disposal costs
- May lower or eliminate the need for alkali and flocculant aids
- Perform well over a wide pH range
- Extends filter runs and water production capacity.
- Products are NSF approved and US EPA and MDEQ Approved or Approvable

Handling & Storage

Materials of construction for storage tanks include fiberglass/epoxy, polyester, rubber-lined steel, or Type 316 stainless steel construction. Gravity flow to process or feed equipment is recommended, but centrifugal pumps of Alloy 20, Type 316 stainless steel, or PVC can be utilized to transfer liquid inorganic products. Schedule 80 PVC with socket connections is the recommended piping material, provided it is adequately supported and temperatures are monitored so as not to exceed 120°F. For tank truck delivery, it is recommended the unloading line to the storage tank be constructed of CPVC or stainless steel as a safeguard against increased delivery temperatures.

Shipping

Inorganic polymers and coagulants are shipped in Drums, Totes, and Bulk quantities. Please contact a WaterSolve sales agent for shipping information

Government Approval/Regulatory Information

WaterSolve Products are currently approved for use in accordance with National Sanitary Foundation (NSF) Standards. Go to www.NSF.org or check with WaterSolve sales management for additional information and recommendations.

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