

VC-702

Anionic Polyacrylamide

VC-702 is a high molecular weight anionic flocculants which works effectively as coagulant aids or sludge conditioning agents in solid-liquid separation processes in a wide variety of industries. The chemistry range available ensures there is a product suitable for each individual application.

Advantages

- Economical to use – effective at very low dosage levels
- Work over a wide pH range and does not alter the system pH
- Fast settling rates
- Achieve high solid removal efficiencies
- Easily soluble in water
- Dry product minimizes storage requirement

Principal Uses

VC-702 is recommended for the following solid-liquid separation processes:

- Mechanical dewatering – treating inorganic sludges for increased throughput, solids recovery, and effluent quality
- Gravity setting – improves floc formation for faster settling rates, increased sludge compaction, and improved water quality
- Coagulant aid – settling aid with inorganic and organic coagulants
- Water clarification – improves influent, process and effluent water quality by reducing suspended solids and turbidity
- Dissolved air flotation – result in clearer underflows and greater throughput
- Filtration – improve filtered water quality and plant throughput
- Phosphate removal in wastewater treatment

The above are the primary application for these products. This product may be beneficial in any solid-liquid separation process.

Application

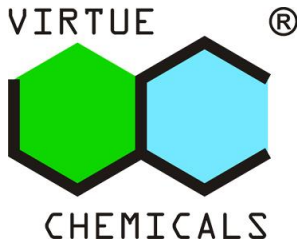
VC-702 should be properly dispersed and dissolved to 0.1 – 0.5% concentration. Dissolution should be completed around 1 hour of agitation, but will be faster in warm water. However, the temperature of water should be refrained from above 50°C.

Health and Safety

This product can irritate the eyes and skin. Rubber gloves, goggles and protective clothing are recommended for use while handling. It is not acutely toxic by oral and dermal administration to laboratory animals though eye irritation did result. See the Material Safety Data Sheet for complete safety, health and environmental data.

Typical Properties

Appearance	White, Granular Powder
Ionicity	Medium
Molecular Weight	High
Bulk density, gr/ml	0.6 – 0.8
pH of 0.1% solution @25°C	5 - 8
Effective in pH Range	5 – 12
Residual Acrylamide, wt%	0.2 Max



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Treatment Levels

For use as

Flocculant	0.2 ~ 2.0 ppm
Coagulant aid	0.05 ~ 1.0 ppm
Filtration aid	0.01 ~ 1.0 ppm
Sludge dewatering	0.05 ~ 0.2% Dry solid

Handling and Storage

Solutions are no more corrosive than water and recommended materials of construction include stainless steel, fiber glass, plastic, and glass or epoxy-lined vessels. Do not use iron, copper or aluminum. Spilled polymer is very slippery and should be collected prior to flushed with water. The shelf life of this product is 12 months when stored in unopened packages in a dry atmosphere at temperatures no higher than 40°C.

Important notice

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility or as an assumption of a duty on our part. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information, products or vendors referred to herein. **NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.** Nothing herein is to be taken as permission, inducement or recommendation to practice any potential invention without a license.