

PolyFloc* AE1138

high molecular weight flocculant

- Dewateres sludges
- Cost-effective liquid
- Effectively clarifies wastewater in a variety of applications

description and use

PolyFloc* AE1138 is a highly anionic charged, high molecular weight, polymeric flocculant. It is designed to function in industrial water and wastewater treatment programs as a coagulant aid or flocculant in clarification and sludge dewatering processes.

PolyFloc AE1138 is a liquid emulsion, providing a cost-effective solution to many solids separation processes, particularly in effluent water treatment applications.

PolyFloc AE1138 produces a fast-settling floc, which reduces carryover when used as a flocculant in raw water or wastewater treatment clarifiers, thus mitigating bulking problems.

PolyFloc AE1138 provides cost-effective sludge conditioning for those sludges having a high anionic charge demand. It produces a clean filtrate, high solids capture, and a drier cake, resulting in lower sludge transportation and disposal costs.

treatment and feeding requirements

PolyFloc AE1138 must be dissolved in water before use. The solution may be prepared in batch fashion by slowly adding the pre-mixed polymer to the vortex of an agitated tank. **Do not add water to the neat polymer.** Recommended initial make down solution concentration is 0.5 percent. Low speed (350 rpm)

Water Technologies & Solutions fact sheet

mechanical agitation should continue until complete dissolution is accomplished. Avoid high shear or excessive agitation once the product has been dissolved. Dilute solutions should be used within 24 hours for maximum activity.

Continuous make down systems are also available and can produce more reliable results than manual batch make down. Further dilution of the stock solution to approximately 0.1 percent enhances polymer performance in most applications. For dewatering applications, dilution to approximately 0.25 percent may be more practical. Your SUEZ representative can assist you in this and other polymer feeding requirements.

Diluted product may be fed by a pump, eductor, or gravity flow to a point where good mixing, but no violent agitation, of the treated water occurs. High speed mixing decreases the activity of the polymer. Pumps used to transfer the solution to the point of application should be positive displacement, such as gear or piston pumps.

Liquid-side components of tanks, pumps, and piping can be constructed of stainless steel, copper, brass, or plastics, with the exception of polyethylene and polypropylene. Mild steel construction of tanks, pumps, and piping is not recommended. Viton and Tygon rubbers are acceptable for pump components and hose linings (Viton is a registered trademark of DuPont. Tygon is a registered trademark of Saint-Gobain Corporation).

general properties

Physical properties of PolyFloc AE1138 are shown on the Material Safety Data Sheet (MSDS), a copy of which is available on request.

packaging information

PolyFloc AE1138 is a liquid emulsion product available in a variety of containers. Consult your SUEZ representative for delivery and packaging alternatives.

storage and handling

Store PolyFloc AE1138 at moderate temperatures of 45 to 95°F (7 to 35°C), and protect from freezing. Bulk containers should be insulated and heat traced (where necessary) if outdoors. Neat polymer should be recirculated or mixed periodically to avoid product separation. Recirculate one container volume per day.

Spilled polymer is very slippery. Small amounts of spilled polymer can be washed down with copious amounts of water. Large spills should be contained and absorbed on inert material and disposed as solid waste, prior to flushing with water.

safety precautions

An MSDS containing detailed information about this product is available on request.

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