

PolyFloc* CE1163

high molecular weight flocculant

- Cost-effective liquid
- Effective emulsion breaker
- Dewateres sludges, especially biological and oily solids
- Works in a variety of wastewater applications

description and use

PolyFloc CE1163 is a cationic, polymeric, very high charge, high molecular weight flocculant, designed to function in industrial treatment programs as a coagulant aid, or flocculant, in clarification, emulsion breaking, and sludge dewatering processes.

PolyFloc CE1163 is a liquid emulsion, providing a cost-effective solution to many solids separation processes, particularly in effluent water treatment applications.

PolyFloc CE1163 produces a fast-settling floc, which reduces carryover and mitigates bulking problems when used as a flocculant in secondary clarifiers. It provides excellent coagulation and flocculation benefits to oily wastewater treatment units, especially flotation units, because of its strong emulsion-breaking properties.

PolyFloc CE1163 provides cost-effective sludge conditioning for those sludges having a high charge demand, such as biological and oily sludges. PolyFloc CE1163 produces a clean filtrate, high solids capture, and a drier cake, resulting in lower sludge transportation and disposal costs.

treatment and feeding requirements

PolyFloc CE1163 must be dissolved in water before use. The solution may be prepared in batch fashion by slowly

Water Technologies & Solutions fact sheet

adding the premixed 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% (0.3-1%). Low speed (350 rpm) mechanical agitation should continue until complete dissolution is accomplished. Avoid high shear or excessive agitation once the product has been dissolved. It is recommended that diluted solutions 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% enhances polymer performance in most applications. For dewatering applications, diluting to approximately 0.25% 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 by gravity flow to a point where good mixing, but not 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 gear or piston pumps.

Liquid-side components of tanks, pumps, and piping can be constructed of 316 stainless steel or most plastics, with the exception of LD polyethylene and polypropylene. Mild steel and 304 stainless steel are acceptable only in systems where contamination by corrosion products is not a critical problem. Viton and Tygon rubbers are acceptable for pump components and hose linings. (Viton is a registered trademark of DuPont Dow Elastomers. Tygon is a registered trademark of Saint-Gobain Corporation).

general properties

Physical properties of PolyFloc CE1163 are shown on the Material Safety Data Sheet (MSDS), a copy of which is available on request.

packaging information

PolyFloc CE1163 is a liquid emulsion product. Consult your SUEZ representative for delivery and packaging alternatives.

storage and handling

Store PolyFloc CE1163 at moderate temperatures of 45-95°F (7-35°C), and protect from freezing. Bulk containers should be insulated and heat traced (where

necessary) if outdoors. Neat polymer should be re-circulated 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, then 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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