

Novus* AE1784

- Cost-effective liquid
- Reduces floc carryover
- Increases throughput

description and use

Novus AE1784 is a high molecular weight, medium charge density, anionic emulsion polymer. It is designed to function in industrial treatment programmes as a coagulant aid, or flocculant, in clarification, thickening, and sludge dewatering processes.

typical applications

Novus AE1784 is a liquid emulsion, providing a cost-effective solution to many solids separation processes in both influent and effluent water treatment applications.

Novus AE1784 produces a fast-settling floc, which reduces carryover when used as a flocculant with inorganic or cationic polymeric coagulants.

It settles lime precipitate in raw water lime/soda softeners, iron oxide suspensions from steel industry wastewaters and precipitated hydrous metals in finishing water wastes, and reduces fines in blast furnace, steel mill scale, and BOP scrubber thickener effluents.

Novus AE1784 provides a clean effluent from automotive oily waste treatment processes and increases settling in chrome/cyanide destruction units and heavy metal separation systems. It can be used to reduce oil in refinery and other industrial wastewaters by improving air flotation unit and API separator efficiencies.

Water Technologies & Solutions fact sheet

treatment and feeding requirements

Novus AE1784 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% (0.3 to 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, an 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 stainless steel or most plastics, with the exception of LD polyethylene and polypropylene. Mild steel is acceptable only in systems where contamination by corrosion products is not a critical problem. Viton (registered trademark of E. I. DuPont de Nemours and Company) and Tygon (registered trademark of Saint-Gobain Corporation) rubbers are acceptable for pump components and hose linings.

general properties

Physical properties of this product are shown on the Material Safety Data Sheet, a copy of which is available on request.

packaging information

Novus AE1784 is a liquid emulsion product, available in a variety of containers. For more information please contact your SUEZ representative at our website.

storage and handling

Store Novus AE1784 at moderate temperatures (7 to 38°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. The recommended shelf life of the product is six months.

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

A Material Safety Data Sheet containing detailed information about this product is available on request.

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