

Novus* AP1780

Water Technologies & Solutions fact sheet

- Cost Effective
- Reduced Floc Carryover
- Increases Throughput

description and use

Novus AP1780 is a high molecular weight, medium charge density, anionic powder polymer which works as a flocculant or sludge conditioning aid to enhance liquid-solids separation processes.

typical applications

Novus AP1780 produces a fast settling floc which reduces carryover when used as a flocculant with inorganic or cationic polymeric coagulants.

This polymer settles metal oxide suspensions in wastewaters, precipitated hydrous metals in finishing water wastes and reduces fines in scrubber thickener effluents.

This polymer provides a clean effluent from automotive oily waste treatment processes, increases settling in chrome/cyanide destruct units and heavy metal separation systems.

Novus AP1780 can be used to reduce oil in refinery and other industrial wastewaters by improving air flotation unit and API separator efficiencies.

In the paper industry, and many other market areas, Novus AP1780 is an effective sludge conditioning agent for dewatering operations. By producing a well flocculated sludge, filtrates are cleaner and solids capture is improved.

In mining industries, Novus AP1780 is used for ore concentration process to improve filter press efficiency. It is also used to in coal industry in coal fine recovery process to improve clarification & dewatering efficiency.

treatment and feeding requirements

Novus AP1780 may be prepared in batch fashion by slowly adding the powder to the vortex of an agitated tank, using a dry feeder or an eductor. Do not add water to the dry polymer. Maximum practical solution concentration is 0.5% by weight. Air or low speed (400 rpm) mechanical agitation should continue until complete dissolution is accomplished in one to two hours. Dissolution is accelerated with warm water, not exceeding 65°C. Avoid high shear agitation once the Novus AP1780 has been made down. It is recommended that dilute solutions be used within 24 hours for maximum activity.

Further dilution of the stock solution to approximately 0.05% by weight, or 10 to 1, enhances polymer performance in most applications. For dewatering applications dilution to approximately 0.25% may be more practical.

Positive displacement pumps such as gear or piston pumps should be used to transfer the solution to the point of application. To minimise corrosion and contamination by corrosion products, liquid side components of tanks, pumps and piping should be constructed of stainless steel, polyethylene or PVC. Mild steel is acceptable only in systems where contamination by corrosion products is not a critical problem.

Proper treatment levels for Novus AP1780 depend on many factors such as severity of the problem and conditions particular to a given installation. The product is to be used in accordance with control procedures SUEZ establishes for a specific application.

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 AP1780 is available in a wide variety of customised containers and delivery methods. For more information please contact your SUEZ representative at www.suezwatertechnologies.com.

safety precautions

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

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