

Water Technologies & Solutions fact sheet

Novus* AP1783P

- Cost Effective
- Reduced Floc Carryover
- Increases Throughput
- Potable Grade

description and use

Novus AP1783P is a high molecular weight, non-ionic powder polymer which works as a flocculant or sludge conditioning aid to enhance liquid-solids separation processes.

typical applications

Novus AP1783P produces a fast settling floc which reduces carryover when used as a flocculant with inorganic or cationic polymeric coagulants.

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

This polymer can be used as a separation aid in sugar processing and increases settling heavy metal separation systems.

Novus AP1783P 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 AP1783P is an effective sludge conditioning agent for dewatering operations. By producing a well flocculated sludge, filtrates are cleaner and solids capture is improved.

treatment and feeding requirements

Novus AP1783P 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 AP1783P 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 AP1783P 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.

packaging information

Novus AP1783P is available in a wide variety of customised containers and delivery methods. For more information please contact your SUEZ representative.

safety precautions

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

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