



PRODUCT BULLETIN

TEKCLEAR 2081

Cationic Polyacrylamide Flocculent

General Description

TEKCLEAR 2081 is a highly cationic liquid polyacrylamide coagulant which effectively replaces, or significantly reduces, the need for primary inorganic metal salts in water or waste treatment. It is effective over a pH range of 1-12.

Application

TEKCLEAR 2081 is used as a primary coagulant/ flocculent in water treating, industrial & municipal waste treatment, mineral processing and oilfield applications. It can be effectively utilized in a broad range of liquid-solid separation processes such as settling, thickening, filtration, and dissolved air flotation. It is effective in clarification of low turbidity, highly colored waters. It can be used alone or in conjunction with an organic polymer flocculent.

Physical Properties

Form @ 70° F	White Colored, Viscous Liquid
Odor	Mild
Specific Gravity	0.99 - 1.01
pH of 1% Solution	4.0 - 6.0
Freeze Point	32° F
Solubility in Water	Infinite
Viscosity @ 77° F	250 - 400 cps
Shelf Life @ 25° C	1 Year

Preparation and Feeding

TEKCLEAR 2081 can be diluted in-line with water to a concentration of 10% or less and added directly to the system. The product must be added at a point of high turbulence to assure the adequate mixing of coagulant with solids, followed by the maximum contact time possible. Alternately, a 10% stock solution can be prepared by simply adding the required volume of product to a tank containing water and mixing well. If required, the stock solution can then be further diluted in-line. The use of corrosion resistant pumps and tanks is recommended. Depending on the application, dosage levels for filtration and settling are between 1.02 and 3 ppm active polymer. Clarification is 1.0 to 20 ppm and dewatering sludge is 100 to 1000 ppm.

Availability

TEKCLEAR 2081 is shipped in UN approved 275 gallon bulk tanks or in 55 gallon non-returnable, plastic drums.

Handling

TEKCLEAR 2081 should be stored in a heated building at a temperature of 40-95°F (5-35°C). When stored under these conditions, the product has a shelf life of at least one year. If frozen, the product should be allowed to thaw completely and mixed well prior to use. Neat polymer and polymer solutions should be stored in stainless steel, fiberglass, plastic or epoxy-lined tanks. Mild steel, iron, copper or aluminum should be avoided for both storage and feed equipment. Observe warning label on containers. Normal precautions for industrial chemicals apply.