



Aquapure™ FW

Product Code: 2601032
Revised Date: March 19, 2015

Aquapure™ FW

DESCRIPTION

Aquapure™ FW is an anionic, high charge, liquid polymer for wastewater treatment sometimes referred to as a flocculent. Aquapure™ FW will neutralize cationic charges that precipitated matter often has, allowing it to settle rapidly. Aquapure™ FW can be used in batch or continuous settling lamella type tanks. Many applications can use Aquapure™ FW after pH adjustment only, but a cationic coagulant might also be necessary.

FEATURES AND BENEFITS

- Liquid emulsion for easy “make down”
- High charge for good settling
- Versatile – will settle precipitated solids quickly in a wide range of solids
- Anionic in nature to mass together most all types of precipitated metals
- Easy to meter into a poly blend type unit or from a day tank
- Make down is easy, no fisheye stage
- Clarifies wastewater
- Removes precipitated metals

TYPICAL APPLICATIONS

- In all plating shops that use a plate and frame or belt type press
- Anywhere an anionic polymer is used in an industrial application
- Can also be used in job or captive metal finishing shops



House Calls for Industrial WasteWater

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Aquapure™ Fw Is Often Best Used In Conjunction With Other Aquapure™ Products Designed To Accomplish The Need Tasks

OPERATING PARAMETERS

The normal operating range of polymer used may run from 10 – 80 ppm, depending on amount of solids and the charge of the particles

APPLICATION

Usually Aquapure™ FW is diluted to a concentration of 0.1% / wt. and then metered in as needed. In larger systems, (greater than 100,000 GPD), Aquapure™ FW may be injected directly. In either case, very vigorous mixing is an absolute must. Dilute solutions of Aquapure™ FW will be sticky and somewhat slimy, but this is normal. If the diluted solution becomes watery, the product has lost its charge and should be discarded.

For laboratory testing, it is best to make up a 1,000 ppm standard. This is done by taking one gram of Aquapure™ FW to one liter of water. Using the 1,000 ppm standard for jar testing, 1 ml of standard in a 100 ml wastewater sample represents 10 ppm Jar testing using several different levels of dosing should be examined to evaluate the speed of coagulation verses concentration.

A production run of 1,000 ppm would be 1 gallon Aquapure™ FW to 1,000 gallons of water or 1 pound of Aquapure™ FW to 120 gallons of water. After the polymer “day tank” is made and the solution is homogenous the mixer should be turned off and the “day tank” should be allowed to age for 30 minutes to 1 hour. The diluted solution will become slimmier as it ages. The aging promotes maximum effectiveness.

PH CONTROL

Flocculants are most effective in the range of 7-9. Since this is the general range for acceptance discharge to sewer, adjust the pH prior to adding precipitating reagents.



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PHYSICAL PROPERTIES

Appearance.....Milky white liquid
Specific gravity.....1.03
Flash point..... > 200 degrees F (PMCC)
pH.....NA

IMPORANT NOTES

Anionic polymers will possibly foul membrane units. Testing should be done before installing the FW for this application. The Aquapure™ B-Cat or Aquapure™ Low Cat should be used for this application.

Polyacrylamide emulsions such as this product - and all similar products- are subject to periodic phase separation. This would be most noticeable in a 5 gallon semi transparent pail. When this happens a layer will appear as a clear, slightly tinted layer on the top of a white opaque layer. This “layering” is easily rectified by agitating, rolling or shaking the pail until it becomes homogenous white again. In the case of a drum, a drum mixer should be used every time material is drawn out for usage. This phenomenon only occurs with the concentrated polymer and will not happen with dilutions.

If a spill occurs, excess Aquapure™ FW should be wiped up with a dry paper towels or cloth and rock salt or bleach should be laid down to clean up any residual polymer.

DO NOT FREEZE.

WARRANTY

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.