

**WATER SPECIALISTS TECHNOLOGIES LLC**

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**F-403 / F-403H POLYMER**

F-403 / F-403H are proprietary synthetic organic polymers in emulsion, used in all processes of solid-liquid separation, such as: flotation, decantation, filtration, thickening, and centrifugation.

**PRINCIPAL USES:**

The use of these flocculants ensures high clarity of the treated water, a higher sedimentation rate, high recovery of solids, also effective activity at low dosages. Moreover, they are easy to handle and dissolve giving very good results with strong alkaline pH ranges.

**PHYSICAL DATA:**

APPEARANCE:	Opalescent – white emulsion
ODOR:	Slightly of petroleum
CHARGE:	Cationic
DENSITY:	0.980 – 1.040 gr/mL
VISCOSITY:	1500 – 2500 CPS
pH	3.0 – 4.0 (sol. 0.5% H <sub>2</sub> O dist.)

**HANDLING AND STORAGE:**

As with any chemical, this product should be handled with reasonable care. Avoid contact with skin, eyes and clothing. Store at temperatures between +5°C and a maximum +35°C; does not stand the cold; after gelation do not use more of the product. If stored correctly it remains stable for 6 months. After long storage periods it is better to gently mix the product to re-homogenize it. See the Material Safety Data Sheet for complete handling and storage information.

**DOSAGE and FEEDING:**

Before use, stir gently in its own container in order to achieve a suitable degree of homogenization. The solutions obtained with these flocculants are normally prepared by being added to the water under agitation for 20 – 30 minutes by means of a rotor in a separate basin. When using a screw agitator the speed should not exceed 500 rpm. The product may also be dosed by dilution on a suitable water line, without using agitators and separate basin. The concentration of the solutions must be lower than or equal to 0.6% (0.2 – 0.3%) as a maximum; dosages must be determined each time through preliminary tests. Polymer solutions should be aged for 15-60 minutes for best results. Solution shelf life is 8 – 16 hours. As a general indication, the quantities that may be used are: 0.5 – 12 kg/ton of sludge for sludge dewatering, 1 – 30 mg/L for flotation, 0.25 – 12 kg/ton of sludge for sludge thickening, 0.5 – 40 mg/L for clarification of waste waters.

**TECHNICAL ASSISTANCE:**

Your Water Specialists representative is available to assist you with any water treatment problems that may arise.