



## Product Facts

### PRETREAT 5020-P Flocculating Agent

#### APPLICATION

PRETREAT 5020-P is used mainly for wastewater purification, as well as for thickening and dewatering of municipal and industrial sewage sludge (centrifuges, screen belt presses, chamber filter presses). The product is especially suitable for applications where the formed flocs are subjected to high shear. The mode of action of cationic PRETREAT 5020-P products is based essentially on ion exchange between the electrical charges along the polymer chain present in aqueous solution and the surface charges on the suspended solid particles. The particle surfaces are destabilized, thus bringing about coagulation or flocculation.

#### PRODUCT DATA

Appearance : White Powder.  
pH (0.1% solution) : Approx 3.5  
Ionic Charge : Cationic.

#### FEATURES

- Effective at low dosages.
- Completely soluble in water.
- Can be used at high shear.

#### DOSAGE

PRETREAT 5020-P is used as a dilute solution (0.05 to 0.1 %). For preparation of stock solutions (approx. 0.5 %) the

original product is added to water with uniform stirring. After a dissolving period of approx. 60 minutes, the solution is mature and is thus ready for use. Owing to the very variable properties of the sludges to be dewatered, the required addition quantities for a particular application can only be determined by carrying out laboratory tests and industrial trials. Experience has shown that in mechanical sludge dewatering the quantities required in order to achieve a high machine through put and discharge water free of settle-able materials is between 2 and 6 kg polymer per ton of dry solids in the sludge. When used as a sedimentation accelerator or clarifying agent (in static sedimentation processes), only a few grams of polymer per cubic meter of slurry to be clarified are required.

#### STORAGE AND HANDLING

High molecular flocculating agents, such as PRETREAT 5020 are all basically sensitive to the effect of moisture, for example in the form of condensation water, water spray or splashes and atmospheric moisture. Contact with water (drops) can cause localized lump formation. The product must therefore be stored in dry, closed containers and protected from moisture.

Dealer / Distributor



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