

BETAGARD 6100

Anionic Flocculant (Coagulant Aid)

Description

BETAGARD 6100 is an anionic polyelectrolyte, functions as coagulant aid or sludge conditioning agent in liquid-solids separation processes. This product is a highly charged anionic **polymer**, it will serve as an effective flocculant in many liquid/solids separation systems, including clarification, thickening and dewatering. The product is suitable for applications where the formed flocks are subjected to high shear. Stock solutions are normally prepared at concentration of 0.1 to 0.5%. Due to its low residual monomer content, BETAGARD 6100 may be used in the treatment of potable water up to a maximum concentration of 1.0 mg/l, as approved by the Indonesian Health Department.

Properties

Appearance	Off white powder
Bulk Density, gr/ml	0.65 – 0.90
Ionic Charge	Anionic
Molecular Weight	Very High

Dosage and Feeding

The recommended dosages of BETAGARD 6010 for different applications are as follows:

- Flocculant : 0.1 - 2.0 ppm
- Coagulant Aid : 0.05 - 1.0 ppm
- Filtration Aid : 0.01 – 1.0 ppm
- Sludge Dewatering : 0.5 - 4.0 kg per ton of dry solids

Actual dosage should be determined in laboratory jar test. Stock solutions are normally prepared at concentration of 0.1 to 0.5%. Do not use high speed, high shear mechanical mixers for agitating. Those stock solutions are stable at least for 3 days. See polymer mixing procedure bulletin. For best performance, further dilutes stock solution with clean water to 0.02% or less, before feeding to the process stream. However, this is usually determined by inspection of facilities available. The recommended transfer pumps are gear type or positive-displacement piston or diaphragm pumps.

Handling and storage

Solutions of BETAGARD 6010 are essentially non-corrosive. The recommended materials of construction for solution handling include black iron, mild steel, fibre glass, plastic and other more resistant materials. Galvanized equipments should not be used. Spilled polymer is very slippery. The polymer spills should be scooped and wiped up prior to flushing with water. BETAGARD 6010 should be stored in a dry place with ambient temperature not higher than 38° C. Close tightly the drum container after use.

Packing

In fiber drum or PE bag - 25 kgs.