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Water Treatment Division

Product Data Sheet – Anafloc 4041/4045

ANAFLOC 4041/4045 is a high molecular weight anionic polyacrylamide flocculant which works effectively as a flocculation aid or sludge conditioning agent in numerous solid-liquid separation processes.

Advantages:

- Economical to use.
- Effective at very low dosage levels, resulting in reduced handling and storage costs.
- Works over a wide pH range and does not alter pH in the system.
- Larger, faster-settling flocs are formed in gravity settling operations.
- Increased filtration rates and drier cakes are produced in filtration processes. Sludges contain less ash when incinerated.
- Higher solids capture, increased clarity, and greater throughput are attained in centrifugation. Air flotation operations produce clearer underflows and greater throughput.

Principal Uses:

- ✓ Industrial Water Treatment
- ✓ Clarification of waste water or dewatering sludges from:
Metal finishing Meat packing, Pulp and paper manufacture, Oil refining, Brewing, Textile processing, Leather tanning, Chemical processing, Soap and detergent manufacture, Aluminum, steel and from Glass and ceramic production, Processing Synthetic rubber production, Paint manufacture,
- ✓ Industrial Water Treatment: Clarification of industrial raw water; often in conjunction with inorganics such as alum.
- ✓ Municipal Waste Treatment: Raw sewage settling
- ✓ Clarification of primary and secondary effluents.
- ✓ Alum Sludge dewatering
- ✓ Polishing and phosphate removal process in tertiary treatment.

Application

Anafloc 4041/4045 flocculant should be dissolved in water using an ejector funnel to make a 0.1 to 0.5 percent solution. Dissolution should be complete after 30 minutes, but will be faster in warm water, however, avoid temperatures above 50 degree C. Stock solutions are stable for at least two days. For best results further dilution with clean water should be made prior to being fed to process stream. Avoid turbulent mixing conditions in the process stream after ANAFLOC 4041/4045 has been added.



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Treatment Levels

For use as

- Flocculant 0.2 ~ 2.0 ppm
- Coagulant aid 0.05 ~ 1.0 ppm
- Filtration aid 0.01 ~ 1.0 ppm
- Sludge dewatering 0.05 ~ 0.2% Dry solid

Typical Properties

- ❖ Chemical Composition Polyacrylamide
- ❖ Appearance White Granule
- ❖ Iconicity Anionic
- ❖ Bulk Density (gr. /ml) 0.55 ~ 0.65
- ❖ pH of Solution (25 Degree C) 0.1% 6.5 ~ 7.5

Viscosity (cps* at 25 Degree C)

Solution %	
0.1	260
0.25	600
0.5	1,500

• Brookfield

Handling

Animal tests have shown that ANAFLOC 4041/4045 can be considered to be practically non-toxic; it should offer no hazard to health under reasonable conditions of industrial handling and use. Spilled polymer is very slippery. Spills should be scooped and / or wiped up prior to flushing with water.

Technical Service

Technical service and information for making the best use of this product are available through our representative.