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Water Treatment Division

Product Data Sheet – Anafloc 4020

ANAFLOC 4020 is a high molecular weight nonionic Polyacrylamide flocculants 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. Sludge contains 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.

Principals Uses:

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

Application:

ANAFLOC 4020 flocculants should be dissolved in water using an educator 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 50Deg. C. Stock solutions are stable for at least two weeks. 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 4020 has been added.



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Treatment Levels:

For use as

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

Typical Properties:

- | | |
|------------------------|----------------|
| ❖ Chemical Composition | Polyacrylamide |
| ❖ Appearance | White Granule |
| ❖ Ionicity | Nonionic |
| ❖ Bulk Density (gr/ml) | 0.55~0.65 |

Viscosity (cps*at 25Deg. C
Solution %

| | |
|------|-----|
| 0.1 | 70 |
| 0.25 | 180 |
| 0.5 | 400 |

*Brookfield

Handling:

Animal tests have shown that ANAFLOC 4020 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.