

Barfloc™ FP Organic Coagulants

A Step Forward in Effluent Coagulation



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Barfloc™ FP organic coagulants represent a tremendous evolution in water clarification.

In general, inorganic salts such as Ferric Chloride or Poly–Aluminum Chloride are used as primary coagulants in different stages of the waste water treatment industry and are also used for domestic effluents.

These can be also replaced by Polydadmacs or Polyamine–based products.

Barfloc™ FP solutions offer a cost effective alternative to partially or totally replace these products at every step of the waste water treatment process where coagulation is needed.

Barfloc™ FP products are a range of organic coagulants based on a patented poly–quaternary ammonium compound and have shown high efficiency and an improved economic profile in the following applications:

- COD removal on primary and secondary sedimentation
- Sludge dewatering improvement
- Color removal in textile industry
- Phosphorous removal in combination with inorganic salts,

A reduction up to 50 % of the dose rate of inorganic salts has been observed, as well as a reduction of up to 45 % of the sludge volume produced using FeCl_3 or PAC.

Their high cationicity also make Barfloc™ FP products usable as Anionic Trash Catchers in the paper making process to pretreat pulp and neutralize the negatively charged dissolved and colloidal substances.

A Range of Patented Organic Polymers

The Barfloc™ FP range is based on a patented and stabilized poly–quaternary ammonium compound which provides:

- An ultra high cationicity
- A low alkalinity
- And a medium to high molecular weight

Easy to dose as proposed as a liquid soluble in water at any ratio, Barfloc™ FP polymers have been designed to drastically reduce or eventually replace the traditional organic or inorganic coagulants.

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Industrial applications

- Municipal Waste Water Treatment Plants
- Food industries
- Slaughter houses
- Canning industries
- Dairies
- Juice production
- Pulp & Paper industries
- Textile & leather industries
- Pharmaceutical industry

Characteristics

Features/Product	BARFLOC™ FP2 Product	BARFLOC™ FP3 Product	BARFLOC™ FP4 Product	BARFLOC™ FP5 Product
Chemical Function	Polyquaternary Ammonium Compound			
Specific gravity in kg/l	1,00 – 1,05	1,05 – 1,10	0,99 – 1,19	0,99 – 1,19
Viscosity Brookfield in cps.	150 – 250	50 – 200	150 – 350	250 – 500
pH	4,0 – 9,0	4,0 – 6,0	7,5 – 8,5	7,5 – 9,5
Active content in %	14,5 – 16,0	19,0 – 22,0	34,0 – 36,0	31,0 – 34,0
Miscibility in water	100 %	100 %	100 %	100 %



Barfloc™ FP organic coagulants can be used in industrial applications such as municipal waste water treatment plants.

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