



POLYALUMINIUM CHLORIDE





HIGH & LOW BASICITY PAC GRADES

POLYALUMINIUM CHLORIDE SOLUTION

Polyaluminium Chloride is an industry standard primary coagulant which has been used for many years in the treatment of drinking water, sewage and industrial effluents and is also a well established paper processing aid. Feralco grades have wide ranging product basicities which provides for excellent efficiency & products can be matched to meet optimum treatment requirements.

Application

Products are supplied as 10, 12, 16 and 23% alumina solutions in bulk road tankers up to 30 tonnes and in 1000 litre IBC containers. All products are ready to use and can be dosed directly into the water flow by means of a suitable acid-resistant dosing pump. The main areas of application are:

- Treatment of drinking water
- Treatment of process water
- Load reduction in sewage treatment plants
- Phosphate reduction in sewage treatment plants
- Treatment of bulking sludge in sewage treatment plants
- Wet end retention in the paper process
- Anionic charge neutralisation
- Paper sizing

Main Benefits of Feralco PAC

- Broad spectrum treatment & reliable performance
- Well established technology used throughout Europe
- Stability of supply & consistent price levels
- High purity standards easily meet European standard requirements
- First class product stability



WATER TREATMENT TECHNOLOGY

Grades

PLUSpac500 – Low cationic charge density PAC for wastewater treatment

PLUSpac1000 – Medium/high cationic charge density PAC for wastewater treatment

PLUSpac2000 – Low cationic charge density PAC blend with organic polymer

PLUSpac3000 – Medium/high cationic charge density PAC blend with organic polymer

PLUSpac4000 – High cationic charge density PAC for process water treatment

PLUSpacACH – High cationic charge density PAC for process water treatment

AQUALENC G10 – Medium/high cationic charge density for the treatment of drinking water



Drinking Water Treatment

AQUALENC G10 is used for the treatment of potable water. Product doses in the range of 25-100 mg/l are typical. This product contains a high concentration of polymeric aluminium which, in turn, has a high cationic charge resulting in highly efficient coagulation. Low aluminium residuals, low turbidities & long filter runs and effective cold temperature performance are key product features. Of course, by-product sludge production is kept to a minimum.

Wastewater Treatment

PLUSpac500 offers cost effective treatment and is particularly suited to COD reduction.

PLUSpac1000 is the cornerstone of the Feralco product range because suspended solids, turbidity and COD/BOD can be treated effectively and economically.

PLUSpac2000 is available for colour removal or other difficult effluents.

PLUSpac3000 is used where a blend with an organic polymer is preferred.

MICROZIL products can be used to treat oil contaminated water.

Load Reduction

PLUSpac1000 is an effective load reduction aid in sewage treatment plants particularly when plants are close to capacity or experience fluctuations in incoming effluent. The treatment will also reduce phosphate to meet acceptable discharge consent limits.



PAPER PROCESSING TECHNOLOGY

Grades

MICROZIL S – Medium/high cationic charge density PAC containing soluble silica

MICROZIL F – High cationic charge density PAC containing soluble silica

MICROZIL P – Medium/high cationic charge density PAC containing soluble & amorphous silica



Wet End Retention

ALL MICROZIL products provide highly efficient colloidal retention by quickly & effectively neutralizing anionic trash and, at the same time, supporting high quality sheet formation. Positive benefits on wastewater discharges can also be observed.

APPLICATION SUMMARY

APPLICATION	PRODUCT									
	PLUSPAC 500	PLUSPAC 1000	PLUSPAC 2000	PLUSPAC 3000	PLUSPAC 4000	PLUSPAC ACH	Aqualenc G10	MICROZIL S	MICROZIL F	MICROZIL P
Potable Water							•			
Wastewater Treatment	•	•	•	•	•	•		•	•	•
Wastewater – Load Reduction		•								
Paper Processing								•	•	•
Paper Processing – Wet End								•	•	•
Process Water		•			•	•				
Swimming Pools						•	•			



TECHNICAL ADVICE AND SUPPORT

For further information on the use and application of any of these products, please contact our Technical Services Department.

FERALCO (UK) LTD

Feralco (UK) Ltd was formed in January 2001 following the merger of the Laporte and Alcan water treatment chemical businesses. Today it has manufacturing facilities in England (Widnes) and Scotland (R&J Garroway in Grangemouth).

Rapid growth has seen Feralco Group expand its manufacturing base to become a world leader in high performance aluminium chemicals, blends, dispersions and sols. Supply is backed by a first-class support service including application, handling and process optimisation expertise.



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