



G E O®
SPECIALTY CHEMICALS

Business Unit Profile

WATER TREATMENT CHEMICALS DIVISION

**putting eight decades of
experience to work for you**

For more than 80 years, GEO Specialty Chemicals has provided water treatment chemicals and products for municipal water, industrial wastewater, paper mill, oil and gas production and agricultural customers. We began by producing aluminum sulfate. Today, we also make aluminum chloride solution (ACS), polyaluminum chloride (PAC), aluminum chlorhydrate (ACH), sodium aluminate, water treatment polymers and aluminum/polymer specialty blends – including UltraFloc® and UltraPac®. GEO's UltraFloc products represent a family of enhanced aluminum-based coagulants and organic coagulants, which deliver performance advantages over traditional alternatives while maintaining or cutting overall chemical treatment costs.



**G E O ' s a p p r o a c h r e s u l t s
i n i n n o v a t i v e
s o l u t i o n s**

GEO sales and technical service experts team up with you to understand your process and evaluate its challenges. Through a customized approach, we can help with information on the planning, design and installation of storage, pumping, metering and point of feed facilities. Our fully equipped developmental labs and highly trained chemists conduct field and lab tests in order to customize products to meet your exacting specifications or applications. The results are the best possible solutions in the most cost-effective manner.

**s p e c i a l i z i n g i n t h e
c h e m i s t r y o f
g r o w t h**

quality from (under) the ground, up

GEO Specialty Chemicals commitment to quality products and services starts at our kaolin clay mine, and continues through final product manufacturing. GEO's fully integrated approach assures you of the highest quality products every time. Ultimately, that means extra value for you.

Each of our plants is NSF certified for drinking water and has active quality improvement teams and programs. Statistical process control ensures you will get consistent, on-spec material; waivers and blend-offs are not part of our vocabulary. All of our products meet AWWA and NSF standards.

response that's essential to your success

GEO Specialty Chemicals marketing and technical service representatives are your link to superior product technology. A network of highly qualified water treatment distributors supports our sales and service efforts. Customer service representatives are on call 24/7, and can track your order and provide instant response to your inquiries with the help of our computerized scheduling network.



Finally, our plants are nearby for quick and dependable, just-in-time delivery. For example, we manufacture water treatment products at 15 plants in the South and Southeast, strategically located to reduce shipping and inventory costs.

At GEO, we look at all aspects of every customer's situation to provide innovative answers. It's the kind of extra benefit you can expect when you do business with GEO. GEO Specialty Chemicals delivers more.

response

i n n o v a t i o n

discover how aluminum products make the critical difference

Aluminum sulfate, sodium aluminate, polymers, UltraFloc and UltraPac are some of the most important chemicals used in water clarification, paper mills and effluent treatment plants. GEO technical service specialists can show you all the GEO advantages in:

Water Treatment Plants

- Improve coagulation and reduce turbidity, silt and color
- Control water's taste and odor, and decrease chlorine use by reducing microorganisms
- Improve direct and in-line filtration
- Improve pre-treatment of water for reverse osmosis

Paper Mill Applications

- Influent water clarification
- Retention aid
- Formation aid
- Anionic trash charge neutralizer
- pH control agent
- Pitch control agent
- Alkaline papermaking contaminant scavenger
- Rosin sizing agent
- Acid catalyst for wet strength resin cure
- Effluent water clarification

Effluent Treatment Plants

- Improve coagulation rate of suspended and colloidal material, increasing sewage filterability
- Reduce suspended solids and biochemical oxygen demand (BOD)
- Improve dewatering of settling sewage sludge
- Reduce phosphate levels by reacting with phosphate in wastewater
- Improve direct, in-line and oily waste filtration
- Increase asbestos fiber removal from wastewater
- Increase removal of grease and oily wastes from petroleum, metal, food and chemical plants

q u a l i t y



Water Treatment Chemicals Division

Division Headquarters

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Specialty Products

Baltimore, MD

Specialty Products/ Aluminium Sulfate

Bastrop, LA

Specialty Products/ Polymers

Centerville, LA

Clay Plant

Little Rock, AR

Aluminum Sulfate Plants

Counce, TN
Chattanooga, TN
Coosa Pines, AL
Demopolis, AL
DeRidder, LA
Plymouth, NC
Georgetown, SC
Monticello, MS
Pennington, AL
Savannah, GA

Sodium Aluminate Plants

Lake Charles, LA
Savannah, GA

product listing

Aluminum Chlorhydrate (ACH)

Aluminum Chloride Solution (ACS)

Aluminum Sulfate

- Dry
- Commercial
- Iron-free
- Anhydrous

Application Specific Blends

- UltraFloc
- UltraPac
- Custom Blends

Clay Materials

- Absorbent Clay Concentrates
- Ag Carrier Clay Concentrates
- Calcined Bauxite
- Kaolin and Meta-Kaolin (granular/ground)
- Mullite
- Specialty Contract and Tolling Products

Polyaluminum Chloride (PAC)

Polymers

- Mannichs
- Melamine Resins
- Polyamines
- Polydadmacs

Sodium Aluminate



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