

Providing Creative Solutions



# Water Treatment Solutions



# WASTEWATER TREATMENT

## LIQUID/SOLID SEPARATION

We use years of Industry experience and process knowledge to select the best combination of coagulants and flocculants to address your water treatment issues. We successfully improve separation efficiency and minimize sludge across numerous industries including: Food Processing, Metal Finishing and Mining.

### SOLUTIONS

- Sludge Reduction
- Sludge Dewatering
- BOD, TSS, COD, FOG Reductions
- Phosphorus Reduction

### PRODUCTS

- Hydriclear Coagulants
- Hydrifloc Flocculants
  - Cationic Emulsions
  - Anionic Emulsions
  - Dry Polymers
  - Solution Polymers

## PHOSPHORUS REDUCTION

We can help you stay one step ahead of ever tightening phosphorus discharge limits. We offer a full range of options for chemical and biological phosphorus removal through comprehensive testing to provide the best option for your system.

### PRODUCTS

- Hydriclear Coagulants
  - Inorganics
  - Organics
  - Blends
  - Rare Earth

## SYSTEM OPTIMIZATION

We can optimize your existing system to function at its highest efficiency without capital investment. Through automating chemical feed, we can keep you in compliance while minimizing chemical consumption.

- Improve performance of your existing systems
- Meet regulatory limits at lowest possible costs
- Cost effective surcharge reduction
- Reduce chemical consumption by addressing root causes

## ODOR CONTROL

We offer a full range of odor management solutions - not just one. We start by determining the root cause of your H<sub>2</sub>S or odor concern then provide chemistry and feed options to achieve your desired results. Whether in the air, wastewater or sludge our neutralizers and countervailants render malodors imperceptible.

### SOLUTIONS

- H<sub>2</sub>S Control
  - Advanced Oxidation Technology
  - Hydrogen Peroxide
  - Sulfide Precipitation
  - Peracetic Acid
- General Odor Control
  - Hydrivail Odor Neutralizers
  - Hydrivail Countervailants



## PH CONTROL

As one of North America's largest chemical distributors, Hydrite has the critical mass to negotiate the lowest cost sourcing for acids and alkalis used to control pH. We pass those savings on to you. Because we stock a full range of commercially available acids and alkalis, we can offer the best product and concentration for your unique situation.

### PRODUCTS

- Alkalis
  - Caustic Soda (low freeze options)
  - Lime (dry and slurry)
  - Magnesium Hydroxide slurry
- Acids
  - Sulfuric (various concentrations)
  - Muriatic
  - Citric

# UTILITY WATER TREATMENT

## BOILER SYSTEM MANAGEMENT

Hydrite recognizes that an efficient and reliable steam system is critical to your operations. Hydrite takes care in assessing your unique system to prescribe the proper chemical program and application to maximize asset protection, prevent unplanned downtime and lost production, and minimize operating costs.

### SOLUTIONS

- Oxygen Scavengers
- Internal Treatment
- Condensate Treatment

## COOLING SYSTEM MANAGEMENT

Industrial cooling water systems present complex and interconnected challenges, which if left unaddressed can result in serious consequences to your operations. Equipment failure and reduced heat transfer efficiency can result from unaddressed scaling, fouling, corrosion, and microbiological issues, with unplanned downtime and frequent equipment repairs being incredibly costly. By implementing Ackumen cooling water system management as part of a carefully selected treatment program, you will have peace of mind that your cooling water systems are operating efficiently and unplanned downtime and equipment failures will be avoided.

### SOLUTIONS

- Scale and Corrosion Inhibitors
- Biocides - oxidizing and non-oxidizing

## INDUSTRIAL REVERSE OSMOSIS

You rely on your Reverse Osmosis unit to deliver a consistent supply of high-quality permeate water for your processes needs. Hydrite understands the importance of proper RO feedwater pre-treatment to maximize recovery and reduce the frequency of downtime needed for membrane cleaning, allowing you to achieve longer production runs while extending the life of your membranes.

### SOLUTIONS

- Antiscalants
- High and Low pH Cleaners
- Pre-Treatment Chemistries

## CLOSED LOOPS

The consequences of ignoring a closed loop may not be noticed immediately but when a problem rears its head there has often been a considerable amount of damage done. Many of these loops are process-critical, and failure or plugging of heat exchange equipment in these loops can shut a plant or process down, leading to significant downtime and repair costs. Ackumen closed loop system management as part of a carefully selected treatment program, provides a complete solution that optimizes performance 24/7/365 and recognizes and addresses potential problems before they become a threat to your operation, maintaining peak operating efficiency and driving down operating costs.

### SOLUTIONS

- Corrosion and Deposition Inhibitors
- Biocides

## ADDITIONAL CAPABILITIES

- Foam control
- Metal precipitation and removal
- Bioaugmentation
- Scale and corrosion control





## PROGRAM BENEFITS

- Reduce Total Cost of Operation
- Improve operational efficiency
- Optimize water, energy, and chemical usage
- Asset protection and preservation
- Prevent unplanned production downtime

### ABOUT HYDRITE

Established in 1929, is one of the largest chemical manufacturers and suppliers in North America. Hydrite was built upon a backbone of chemical distribution and later diversifying into specialty chemical manufacturing to offer a full chemical supply package to every one of our customers. We work hard in providing creative solutions to our customers to deliver plant efficiency and an improved operating profit for those customers.

One of Hydrite strengths and greatest assets is the technical capacity of our people and the experience they bring to our organization, and ultimately, yours. With each employee fully supporting our mission - which is to be 100% accountable for customer satisfaction - we give you the technical expertise and personal attention that you deserve. Our focus is on our customers and that is the difference you will experience.

We are proud to partner with hundreds of companies to help them make the safest and best products in the world at the lowest possible cost.

Interested in reducing your water treatment costs? Contact us today!  
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PROVIDING CREATIVE SOLUTIONS

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