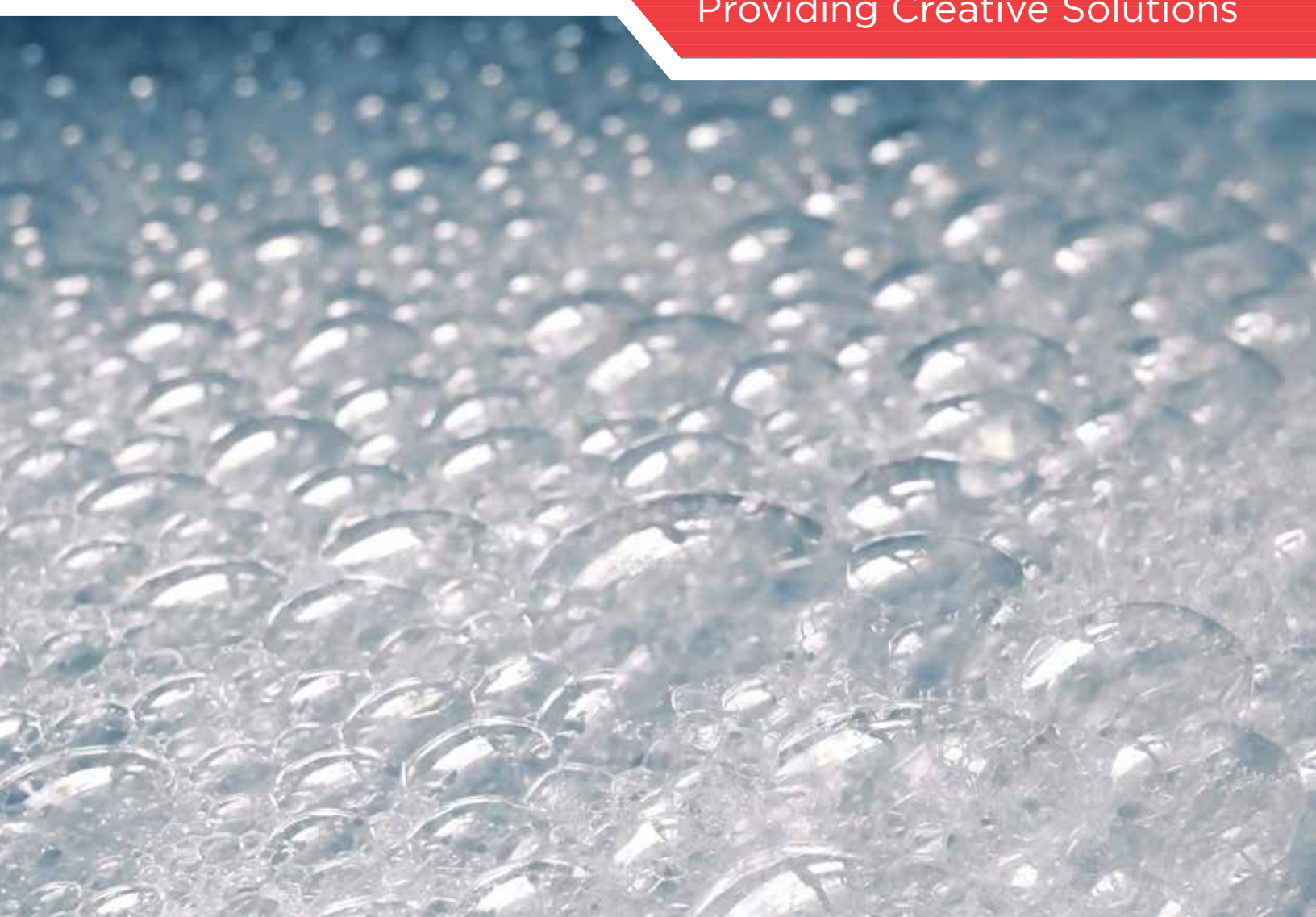


Providing Creative Solutions



■ Specialty Chemicals
■ Equipment Solutions



HYDRITE CHEMICAL CO.

About Hydrite

Established in 1929, Hydrite Chemical Co 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 chemicals to offer a full chemical supply package to each 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 Chemical Co.'s 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.

Our Primary Focus



- Paints & Coatings
- Food Processing
- Sugar Processing
- Fermentation
- Pulp & Paper
- Wastewater Treatment
- Biofuels
- Processed Wood

Specialty Chemicals
Dosing and Metering Equipment
to Maximize Operational Efficiency

A key offering to our customers to create efficiency for their operations is the delivery of chemicals to the application points. The correct application of our chemicals is critical to optimal performance and we want to make that delivery accurate and efficient. We will come on-site for a survey of where the chemicals should be stored, where the dosing system should be installed, how the dosing will be measured and monitored and lastly, how it will be applied at the point of application. The delivery systems are custom designed to each customer to ensure that the best available technology is utilized.

Storage Vessels

Our chemical delivery packages are diverse and custom designed for each customer and application need. Beginning at designing a storage solution to hold our products to pumps for delivery, we strive to ensure the most accurate solutions to improve plant efficiency and maximum performance. Our personnel will come on site for a plant survey and then work with our contracted engineers to build and install the custom system based on agreed upon design.

TANKS

Tanks are critical as the storage vessel for high volume defoamers/antifoams. Where justified, Hydrite Chemical Co can help source the right tank to fit each customer's needs.

Each tank will be designed for optimal product performance and may include either a high-torque, low rpm mixer or fitted for bottom-to-top recirculation to ensure uniformity at all times.

Tanks are generally fiberglass or high-density plastic construction to allow for lower cost, but solid integrity. Other tank materials are also optional.



BENEFITS

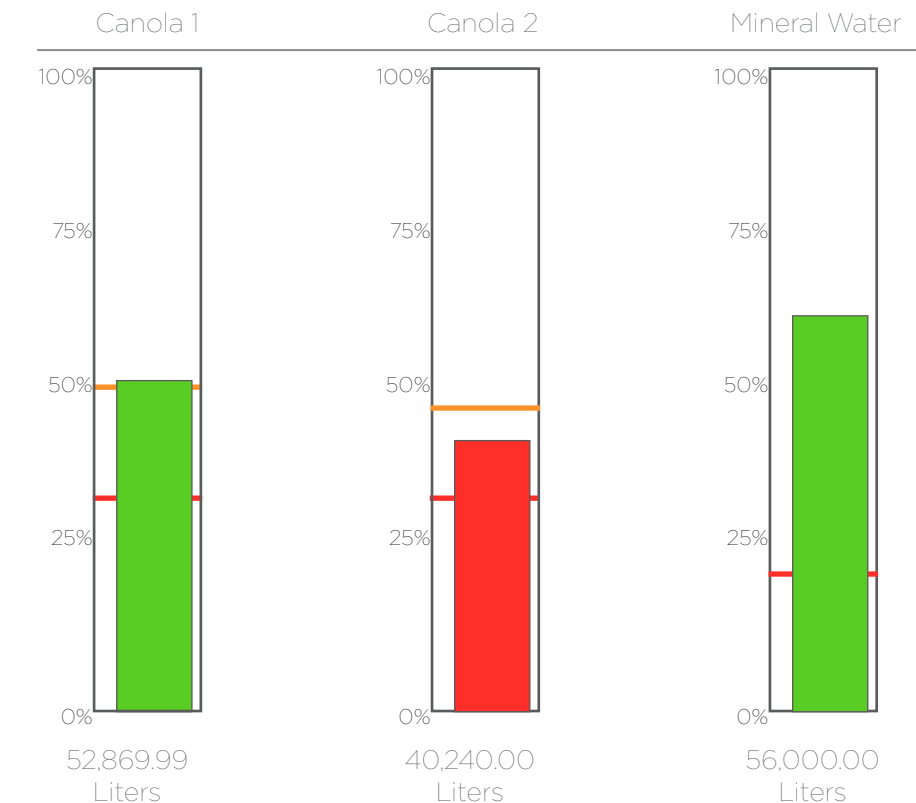
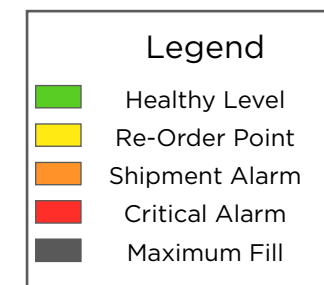
- Superior Corrosion Resistance
- High Tensile Strength & Flexibility
- Ease of Repair & Reconfiguration
- Durable & Economical
- Long Life Span
- Ease of Transport & Off-Loading
- Corrosion Resistant
- UV Stable-Resistant to Environmental Exposure

Specialty Chemicals Equipment Solutions

Along with the tanks, the peripheral equipment can also be critical. Hydrite Chemical Co. has relationships with providers of tank telemetry to allow a production facility visibility to tank levels and be able to schedule replenishment orders more accurately.

Server status: Running

Click Level Bar or Level Name to view more data



Level:
Measurement Unit:
Product:
Capacity:
Reorder:
Shipment:
Critical:

	Canola 1	Canola 2	WATER
Capacity:	100,000.00	100,000.00	100,000.00
Reorder:	0.00	0.00	0.00
Shipment:	50,000.00	47,000.00	0.00
Critical:	30,000.00	30,000.00	15,000.00

BENEFITS

- Accurate Measurement of On-Hand Inventory
- Alarms for Re-Order Volume
- Real Time Data for Daily Usage
- Ties into Control Room PLC for Visibility

Accurate and consistent delivery of defoamer/antifoam is critical to production and operational efficiency. Hydrite Chemical Co can work with production to create a unique product delivery system based upon critical inputs.

Hydrite Chemical Co sources many types and sizes of pumps. Our most commonly placed pumps are either positive displacement pumps or piston. These pumps will be sized for each application to make sure it fits the need.

DIAPHRAGM METERING PUMPS



Hydrite uses ProMinent® Sigma/s chemical metering pumps for low flow rates. These pumps are relatively inexpensive and easy to maintain.

These pumps have an interchangeable head that will allow for more accurate and consistent flow rates for viscous materials.

BENEFITS

- Easy to Operate
- Easy to Vary Flow Rate
- Can be Sized to Need
- Flow Rates of up to 1000 gals/day
- 4-20 mA Output can be Used for Data to Control Room Interface

PISTON PUMPS

Hydrite uses A&F v-10 simplex piston chemical pumps for applications with higher flow rates or if the product has a higher viscosity (>2000 cps). These pumps are very good for systems where a high use level of defoamer/anti-foam exists.

BENEFITS

- Heavy Duty
- Easy to Vary Flow Rate
- Can be Sized to Need
- Flow Rates of up to 720 gals/day
- 4-20 mA Output can be Used for Data to Control Room Interface



DELIVERY LINES

To ensure accurate delivery of product without fear of kinks, nicks or cuts, Hydrite Chemical Co will recommend reinforced Tygon® tubing.

BENEFITS

- Handles 4x the Pressure of Non-Reinforced Tubing
- Smooth, Non-Porous Bore Resists Particle Entrapment
- Clear Wall Enables Visualization of Fluid Flow
- Durability Allows for Longer Lines to be Installed to Access Many Inaccessible Application Points



FLOW METERS

Hydrite proposes installing flow meters on our systems to better understand the dosing used in the application. These systems can take the form of manual draw down tubes or direct measuring flow meters. The equipment allows the operators to get real time data on product flow rates being fed into the system at a given time.



We have recently begun using SM flow meters from IFM (pictured above). The flow meters can accurately measure low flow rates.

BENEFITS

- Can measure flow rates of 5 to 3000 mL/min
- Easy to install
- Digital readout for ease of visibility
- Can be tied to control room

IN-LINE STATIC MIXERS



For those customers that would like to feed product to application areas via water-dilution, Hydrite can propose an in-line, static mixer to ensure that the product delivered is uniform and consistent. The in-line, static mixer ensures that the defoamer/antifoam will mix with the dilution water. This equipment will reduce “gelling” and lower maintenance costs as the lines should require less care.

ENTRAINED AIR MONITORING

We have partnered with Emerson to bring unparalleled accuracy in monitoring entrained air within a given fluid system to more accurately dose defoamer/antifoam. This is the most accurate method available to better control dosing and provide efficient foam control with the operating system.



BENEFITS

- Immediate data
- On-line dosing control feedback loop
- Reduced maintenance
- Cost control



Polymer Blending System

The ProMinent ProMix™ is a pre-engineered polymer mixing system made for the water and wastewater markets. Designed as an in-line unit, the ProMix™ can be customized to meet most liquid polymer applications utilizing tubing or diaphragm pump technologies depending on the application requirement or customer preference. The unique mixing chamber allows for complete make-down of the neat or diluted polymer to deliver an optimized injection of chemical.*

BENEFITS

- Open design for easy maintenance
- Adjustable auto flush settings
- Remote start/stop
- LCD display with touch-pad control
- 4-20 mA input to pace pump



Polymer Feed System

The PolyRex is a turn-key automatic feed system for batch-wise preparation and metering of polymer solutions from powdered or liquid chemicals. The PolyRex feeds an adjustable flow of powdered or liquid polymers and an adjustable flow of preparation and dilution water. The PolyRex uses a step-by-step mixing system to effectively hydrate and mix the polymer to a homogenous and activated polymer solution.*



BENEFITS

- Automatic water control
- Preparation/stock tanks in various sizes
- User friendly control logic
- Variety of bulk bag handling systems

We strive hard to meet the needs of our customers to create problem-free and efficient chemical programs. Technology, application knowledge and equipment solutions are all available to help in the process. Our personnel are on call to help in optimizing your system. Please consult with you representative to determine the best solution for your system.



Providing Creative Solutions

Please contact our personnel to discuss our equipment offering and explore the options to improve your operations. We will have our experts visit for a survey and custom design a system specific to your needs.



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