

# MEMBRANE SANITATION SOLUTIONS





## Providing Creative Solutions

Hydrite offers a full range of services designed to implement and maintain effective chemical membrane cleaning protocols in your facility. Our sanitation offerings extend from effective detergents to in-plant support and training, ensuring that you not only receive the right chemical products but that your employees use them properly.

### The Membrane Separation Process

Because membranes are useful for filtration and separation, they hold value for clients in diverse industries. Common industries include:

- Food and beverage
- Wastewater treatment
- Waste and recycling
- Energy, oil, and gas
- Paints, coatings, inks, and adhesives
- Industrial
- Agriculture

While applications vary, the general principles underlying membrane separation remain the same—including the challenges presented by the systems. For instance, concentration polarization is a challenge faced by all separation processes which causes the composition to differ at the feed-membrane interface as compared to the rest of the mixture. While inevitable, this gradient negatively affects performance and failure rate, meaning it must be carefully managed for each individual implementation.

Hydrite has years of experience designing solutions that mitigate such challenges while meeting your own industry's specific requirements and regulations.

## **NEXT GENERATION CHEMISTRY AND SUSTAINABLE CHEMICAL ENGINEERING**

We focus on developing new products that help our customers improve cleaning efficiency and enhance their total system performance. Our chemists work to develop new and improved products to offer the latest technology in phenol free products and products that help reduce environmental impact.

## **CUSTOMIZED PROGRAMS FOR FACILITY PROTOCOLS**

Every plant is unique and cleaning protocols must be customized for each location and application. Our team of experts help you to select the right chemicals and services designed to implement and maintain effective membrane cleaning protocols in your facility and protect your investments.

## **TECHNICAL EXPERTISE**

Hydrite's membrane sanitation specialists are recognized as the industry leaders and innovators offering support and service. We work closely with the membrane manufactures and equipment suppliers to meet your needs for processing and cleaning. We have the requisite experience to improve product quality and reduce cleaning time.

## **MEMBRANE TRAINING**

We offer a comprehensive training program that covers membrane applications, systems, cleaning, and separation processes. By training your supervisors in such techniques, you ensure that your membranes are treated appropriately, extending their working life and performance.

## **LAB & EQUIPMENT**

Hydrite has a state-of-the-art membrane cleaning lab that allows us to conduct trials and soil evaluations. We are equipped to perform cleaning studies which can recover water flux on certain membrane types. We also offer cutting-edge equipment that simplifies membrane management. This programmable equipment controls, dispenses, and records chemical volumes used in cleaning to prevent errors.

## **SOIL LOAD MAPPING (SLM™)**

Hydrite Membrane SLM is an informed method for analyzing your current membrane CIP program to provide insight into procedural changes for reduction in time, chemistry, energy, or water. By investigating a membrane system's unique Soil Load Map, recommendations can be made for optimizing the current program or investigating the impact of program changes while minimizing risks to production schedules and elements.

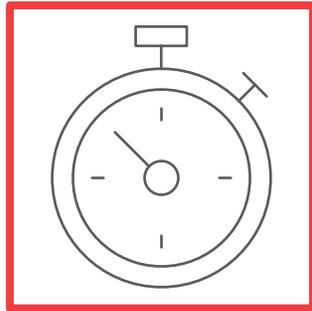


# Providing Creative Solutions

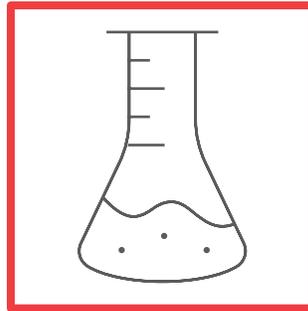
## Adding Value Through Innovation



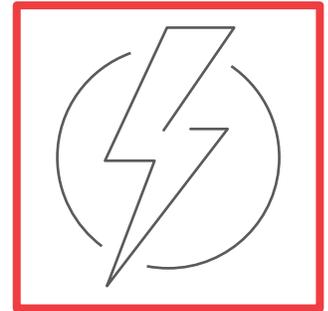
**Water**



**Time**



**Chemistry**



**Energy**

The membrane sanitation program from Hydrite represents the culmination of 30 years of research and development. We've listened to our customer's concerns regarding membrane sanitation, and understand the impact your membrane processes have on throughput and productivity. Our objective is to clean the membrane effectively and quickly, to keep your process running smoothly.

Our program includes not only a family of detergent products which provide superior performance and cost effective cleaning, but also technical support, in-plant service, training, and dispensing equipment.

The Hydrite membrane team is prepared to visit your plant to evaluate current operating conditions, cleaning practices, and plant specific objectives. We will then provide detailed recommendations to help meet your objectives and minimize your chemical expenditures, energy, water & effluent charges.

## Contact us today!



For more information:

Hydrite

17385 Golf Parkway Brookfield, WI 53045

[www.hydrite.com](http://www.hydrite.com) P: 262-792-1450 E: [info@hydrite.com](mailto:info@hydrite.com)