



# Enabling Sustainability with ZwitterCo Membranes



## The Key to Unlocking Industrial Water Reuse

ZwitterCo's breakthrough membrane technology enables water reuse and product recovery from the most challenging wastewater. ZwitterCo leverages the remarkable power of zwitterions to create an intensely hydrophilic membrane that resists fouling. It is classified as a superfiltration membrane, falling between ultrafiltration and nanofiltration.



## Paving the Way for Affordable Water Reuse

Our membranes make it possible to treat historically unfilterable streams. We enable customers to manage and recover value from water, transforming waste from a cost to a benefit.



### Compliance

Implement high quality treatment to stay below your organic discharge limits.



### Water Reuse

Meet and exceed your sustainability goals with permeate that is easy to reuse.



### Power Efficiency

Spend less time and chemicals cleaning, and more time running your operations.



### Product Recovery

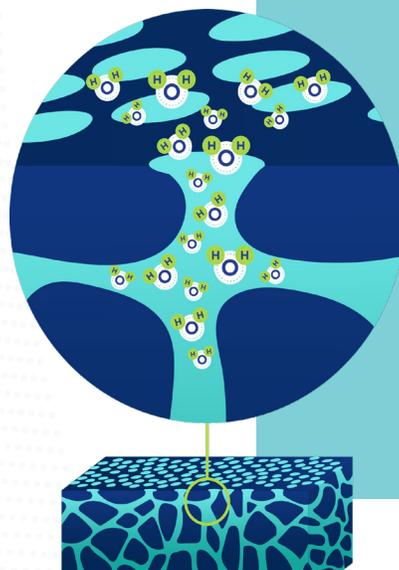
Isolate valuable compounds using membranes with precise, size-based rejection

## Immune to Irreversible Fouling

- Handles streams with over **50,000 ppm** fats, oils, and grease
- Full performance recovery after mild maintenance wash

## Increase Sustainability

- Produce ideal feedwater for RO to enable water reuse
- Less chemical use





## Decrease Costs

- **Eliminate or reduce municipal surcharges & fines**
- Small, modular footprint allows plant expansion
- Lower chemical costs

## Turn Waste into Revenue Stream

- Recover valuable constituents such as proteins and nutrients
- Produce reuse-quality water; reduce water usage
- In field pilots, the membrane has achieved up to **99% water recovery / 100x concentration factors**



## Superfiltration and Zwitterion Technology

ZwitterCo superfiltration (SF) membranes have unique chemistries (zwitterions) that offer low fouling on streams that have been considered unsustainable for membranes in the past. And because SF is tight enough to remove many dissolved organic constituents that foul and create operational challenges for RO, SF membranes are an ideal candidate for pretreatment to RO to purify water for reuse.

By linking zwitterions together with a strong backbone, we create extremely durable hydrophilic (“water-loving”) membranes that prevent organic components from adhering to their surface or clogging their pores. The result is reliable, lasting filtration.

# About ZwitterCo

ZwitterCo's breakthrough membrane technology enables filtration for the most challenging separations. We leverage the remarkable power of zwitterions to create an intensely hydrophilic membrane that resists fouling from organic molecules such as fats, oils, and proteins. The unique properties of our membranes make it practical for industries to reuse water and enhance product recovery from historically unfilterable streams. We offer water treatment and separation solutions that cut chemical demands, maintain steady performance, and last.

ZwitterCo brings decades of expertise to the industrial water market and provides comprehensive support for our technologies through our in-house engineering and lab capabilities. We have been recognized by the US Department of Energy as a leader in advanced filtration and water recovery technologies.



## Ready to see the difference at your facility?

Contact us to learn more about our solutions or to try our products in your facility.



12 Cabot Road, Suite B  
Woburn, MA 01801

[zwitterco.com](http://zwitterco.com)  
[sales@zwitterco.com](mailto:sales@zwitterco.com)