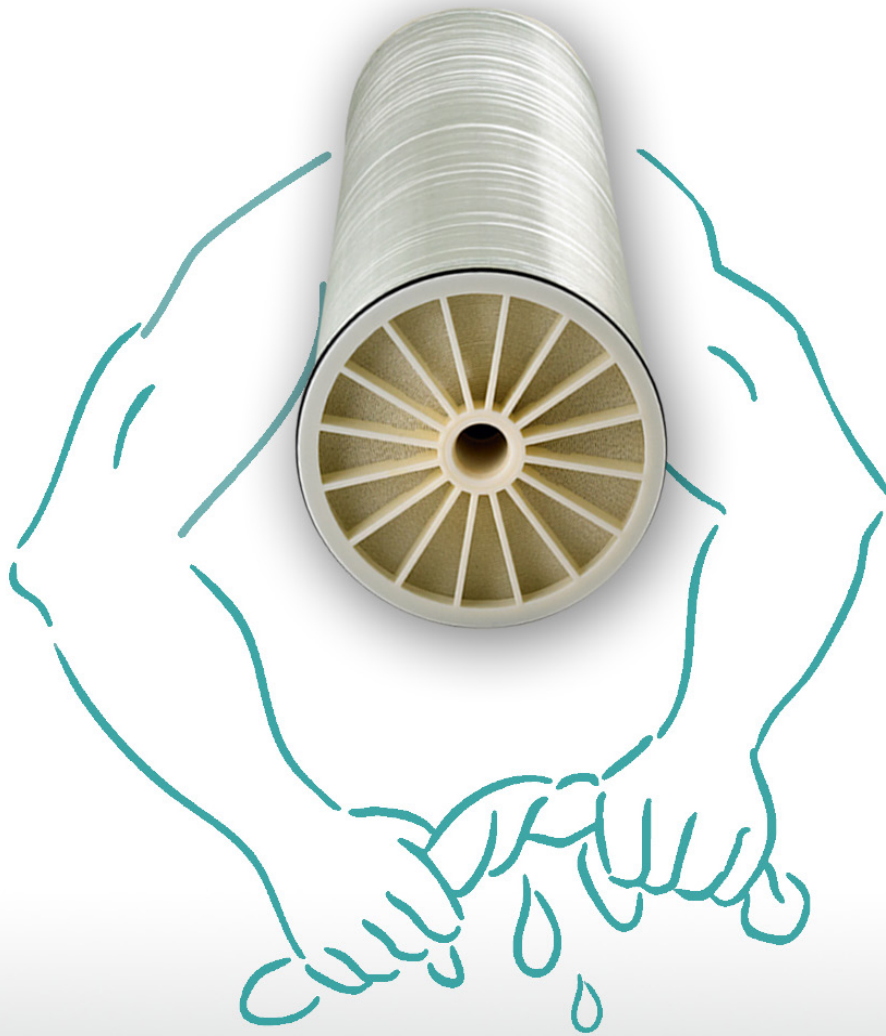


# FilmTec™ Fortilife™ XC220 Element for Ultra-High Brine Concentration



Increase resource  
recovery with brine  
TDS up to 220 g/L  
NaCl



Compatible with  
standard RO  
infrastructure



Reduced CAPEX  
and OPEX

Water scarcity and tightening discharge regulations are placing unprecedented pressure on industrial operations to maximize water recovery while minimizing waste. In response, Zero and Minimum Liquid Discharge (ZLD/MLD) strategies are gaining momentum, with industrial end users and system operators actively seeking reliable, high-performance technologies.

The FilmTec™ Fortilife™ XC220 element is purpose-built to address these constraints. Designed for ultra-high-salinity, high-pressure operation, the FilmTec™ Fortilife™ XC220 element provides brine concentrations of up to 220 g/L NaCl at operating pressures up to 80 bar, allowing MLD/ZLD systems to achieve higher recoveries with fewer downstream treatment steps, reducing liquid waste volumes, and overall cost.

By pushing membrane performance deeper into the concentration cycle, the FilmTec™ Fortilife™ XC220 element can also serve as a key enabler for brine recovery strategies. In doing so, it helps industrial operators not only comply with evolving regulations, but also unlock new pathways toward more sustainable, resilient, and economically attractive MLD/ZLD system designs.

## FilmTec™ Fortilife™ XC220 LSRRO Element

The FilmTec™ Fortilife™ XC220 element features an innovative polyamide membrane designed to enable ultrahigh brine concentration and helps to reduce reliance on energy intensive thermal treatment while unlocking opportunities for resource recovery. Designed for seamless integration into standard reverse osmosis infrastructure, the FilmTec™ Fortilife™ XC220 element provides a lower system CAPEX and OPEX without the need for specialized equipment.

### Features

The ability to achieve reject Total Dissolved Solids (TDS) level up to 220g/L NaCl and helps significantly reduce water volume

Expertly designed membrane and advanced module design offers stable performance under high pressure conditions (up to 83 bar/1,200 psi)

Robust membrane chemistry enabling a wide pH range for operation and cleaning

### Benefits

- Can lower operational costs due to improved efficiency of final thermal treatment steps
- Potential for direct crystallization, bypassing thermal evaporation entirely

- Efficient system design with other high-pressure FilmTec™ Fortilife™ XC series elements
- Maintaining standard RO conditions offers simpler operational experience and equipment accessibility

- Consistent membrane performance over a wide range of operating conditions (pH 2 – 11)
- Robust membrane chemistry that can withstand repeated chemical cleanings (pH 1 - 13)

## Providing Water Independence

DuPont Water Solutions helps to address wastewater regulatory challenges with our minimal liquid discharge (MLD) solution. MLD has the potential to minimize operating costs of achieving high water recovery while reducing the amount of energy required to operate compared to traditional ZLD processes. With the industry's broadest portfolio of purification and separation technologies, our solutions can provide cost savings, higher recovery, and improved environmental stewardship.

## Have a question?

Contact us at: [dupont.com/water/contact-us](https://www.dupont.com/water/contact-us)



[dupont.com/water](https://www.dupont.com/water)

## Key Markets and Common Challenging Water Applications

### Chemical & Petrochemical



### Lithium-ion battery manufacturing



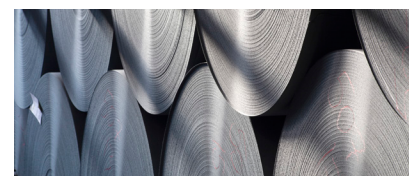
### Steel & Metal



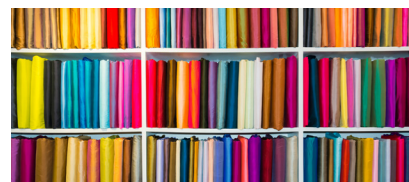
### Resource Recovery



### Pulp & Paper



### Textiles



Photos are courtesy of Getty Images and iStock photography.

All information set forth herein is for informational purposes only. This information is general information and may differ from that based on actual conditions. Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where DuPont is represented. The claims made may not have been approved for use in all countries. Please note that physical properties may vary depending on certain conditions and while operating conditions stated in this document are intended to lengthen product lifespan and/or improve product performance, it will ultimately depend on actual circumstances and is in no event a guarantee of achieving any specific results. DUPONT ASSUMES NO OBLIGATION OR LIABILITY FOR THE INFORMATION IN THIS DOCUMENT. References to "DuPont" or the "Company" mean the DuPont legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. No freedom from infringement of any patent or trademark owned by DuPont or others is to be inferred.

DuPont™, the DuPont Oval Logo, and all trademarks and service marks denoted with ™, SM or ® are owned by affiliates of DuPont de Nemours, Inc. unless otherwise noted. © 2026 DuPont. All rights reserved.

Form No. 45-D05096-en, CDP Rev. 0  
March 2026