

# FilmTec™ Fortilife™ CR100 Element

Highly Durable, Biological Fouling Resistant, Brackish Water RO Element



Imagine a system that can handle sporadic spikes in water contamination or even seasonal changes in water composition. Sound familiar? Does your manufacturing operation face these challenges? The FilmTec™ Fortilife™ CR100 Element can help your facility tackle these difficult problems.

In this scenario, the reverse osmosis (RO) system will be subjected to high-fouling waters which could result in frequent shutdowns in order to conduct harsh chemical clean-in-place (CIP). With advanced antifouling technology, the FilmTec™ Fortilife™ CR100 Element is engineered specifically for plants with challenging waters where biofouling is a problem. The element has demonstrated in field pilot tests to help reduce the need for cleanings, shutdowns, and chemical use, not only saving you time and money but helping provide more reliable operation – and peace of mind.<sup>1,2</sup>

<sup>1</sup> Depending on feed water quality and operating conditions.

<sup>2</sup> When compared at the same operating flux and recovery.

## Fouling Relief

DuPont's latest innovation in state-of-the-art fouling-resistant RO membrane technology, the FilmTec™ Fortilife™ CR100 Element is designed with your toughest fouling challenge, biological fouling, in mind. At the same time, the element also provides a combination of organic fouling resistance, robust membrane chemistry that stands up to repeated harsh cleaning chemicals, and high membrane productivity and ion rejection performance.

Features	Benefits
Industry's lowest differential pressure 400-ft <sup>2</sup> spiral-wound RO module design	a. Up to 50% less frequent cleanings due to biofouling b. Improved hydraulic balance for low organic fouling and lower energy
Organic fouling-resistant membrane chemistry	Reduced rate of flux loss in challenging waters
Durable membrane over a wide pH range (1 – 13)	Highly cleanable membrane chemistry
High A-value membrane	Up to 10% lower energy operation
Competitive salt rejection	High permeate quality to enable blending with higher TDS waters for reuse

## Clean less. Recover more.

As you get biofouling problems under control with this new element, you may choose to run your system at a higher recovery rate than you did before. That can offer major advantages for plants looking to reduce water costs, lower operating expenses, or move toward minimal liquid discharge (MLD).

To experience the performance of this advanced technology in your plant, talk to your DuPont sales representative.

## Key Markets and Common Challenging Water Applications

### Fossil Power Generation

- High-biofouling surface waters
- Cooling tower blowdown
- Low-temperature water treatment



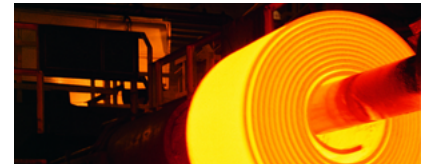
### Chemical & Petrochemical

- High-biofouling source waters
- Cooling tower blowdown
- High-fouling process wastewater
- Brine concentration
- Low-temperature water treatment



### Steel & Metal

- High-biofouling source waters
- Cooling tower blowdown
- High-fouling process wastewater



### Textiles

- High-biofouling process wastewater
- Brine concentration



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