



Dow Water & Process Solutions

DOW FILMTEC™ FORTILIFE™ CR100

Protect against fouling.



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 DOW 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 DOW FILMTEC™ FORTILIFE™ CR100 Element is engineered specifically for plants with challenging waters where biofouling is a problem. The element has proven 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.¹

¹ Depending on feed water quality and operating conditions.

² When compared at the same operating flux and recovery.

Fouling Relief

Dow's latest innovation in state-of-the-art fouling resistant RO membrane technology, the DOW 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 ² 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 resistance 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 Dow sales representative.

Key Markets and Common Challenging Water Applications

Fossil Power Generation

- High biofouling surface waters
- Cooling tower blow-down
- Low temperature water treatment



Chemical & Petrochemical

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



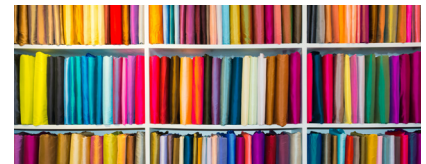
Steel & Metal

- High biofouling source waters
- Cooling tower blow-down
- High fouling process wastewater



Textiles

- High biofouling process wastewater
- Brine concentration



Water & Process Solutions

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