



# PRODUCT SPECIFICATION

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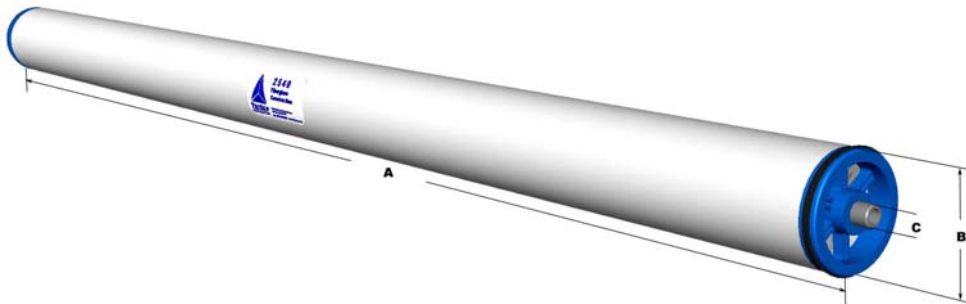
## 2.5" XN45 Nanofiltration Element Series

| Model         | Permeate flow<br>GPD (m3/day)* | Average Salt<br>Rejection (%) | Minimum Salt<br>Rejection (%) |
|---------------|--------------------------------|-------------------------------|-------------------------------|
| 2540-XN45-TSF | 600 (2.0)                      | 95.00                         | 92.50                         |

Performance is based on the following test conditions: 2,000.0 ppm MgSO<sub>4</sub>, 110.0 psi, 25°C, 15% recovery, pH 8.0, 30 minutes operation.

### OPERATIONAL AND DESIGN DATA

|  |   |
|--|---|
| Membrane Type.....                         | XN45 Polyamide Advanced Nanofiltration Membrane |
| Configuration.....                         | Spiral Wound, Fiberglass Outer Wrap             |
| Active Membrane Area.....                  | 26 ft <sup>2</sup> (2.4 m <sup>2</sup> )        |
| Recommended Applied Pressure.....          | 40 - 200 psi (3 - 14 bar)                       |
| Maximum Applied Pressure.....              | 600 psi (41 bar)                                |
| Recommended Operating Temperature.....     | 35 - 113°F (2 - 45°C)                           |
| Feedwater pH Range.....                    | 2 - 11 continuous                               |
| Chlorine Tolerance.....                    | 0.5 ppm nominal, 1.0 ppm max                    |
| Maximum Feed Flow.....                     | 6 GPM (1.4 m3/hr)                               |
| Minimum Brine Flow/Permeate Flow Ratio.... | 5:1   |
| Maximum SDI ( 15 minutes) .....            | 5.0   |
| Maximum Turbidity.....                     | 1 NTU   |



Element Weight : 15 (7)  
 Length (A) : 40.0 (1,016)    Diameter (B) : 2.5 (63)    Permeate Tube (C) : 0.75 (19.1)  
 Units in pounds and inches, units in paranthesis in kilograms and millimetres.  
 Mechanical Configuration: Filmtec Style Core Tube  
 Feed Spacer: 0.031" thick diamond spacer

\* Permeate flow is clean water flux at standard conditions above. Not applicable for all feedwater conditions. Individual element's permeate flow may vary +/- 15%.



**Engineered Membrane**  
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