iLECTM **TECHNOLOGY** LEAK-TIGHT PERFORMANCE



Water Solutions

Boost Performance of RO Systems

*iLEC*TM, an innovative element coupling technology from Dow Water Solutions, enables sustained higher quality permeate throughout the life of the element by reducing seal leakage.

iLEC technology achieves a leak-tight connection between elements and reduces the number of sealing surfaces to a single, axially compressed o-ring. *iLEC* technology is a definitive breakthrough improvement over the traditional sliding couplers.

With proven results in successful operating plants worldwide, iLEC technology is available on high performance FILMTECTM elements.

Reasons to Select $i LEC^{TM}$ Technology

- Improved permeate quality
- Lower pressure drop
- Highly reliable o-ring seal
- Leak-tight performance
- Full performance with or without lubricants
- Compatibility with existing connection methods and vessel designs
- Minimizes installation time with leak-tight connect at start-up
- Reduced energy-consuming flow resistance, lower operating expense
- Elimination of permeate interconnectors
- Fewer parts to wear out or that require maintenance

Features of *iLEC*TM Technology

- Mechanically robust connections
- Ability to handle repeated installation cycles
- Easy installation with a clockwise twist
- Immediate connection feedback during installation
- Minimizes rolled o-rings, wear and abrasion

For more information, visit www.dowwatersolutions.com/ilec or your local Dow Water Solutions representative or OEM.

Features of Construction and Reliability

Construction and reliability features included

- in each FILMTEC[™] element:
- Durable FT30 membrane
- pH 1-13 cleaning range
- Automated constructionGuaranteed active area





Look for FILMTECTM Elements with $iLEC^{TM}$ Technology in the product table, which lists some of the extra features such as:

- 34 mil feed spacer for improving element cleanability
- Fouling Resistant (FR) membrane - Semi Conductor Grade for
- ultra-pure water applications
- Low Energy (LE) membrane

		Performance Attributes						Construction Features	
	Feed Pr	Flow Rose	Stabilizard	Stabilized	Movining	34 mil Fessure (psi)	28-mil r	Achive A.	(H) Down
BW30-440 <i>i</i>	225	11,500	99.50	not tested	600		\checkmark	440	
BW30-400/34i	225	10,500	99.50	not tested	600	\checkmark		400	
BW30-400/34 <i>i</i> FR	225	10,500	99.50	not tested	600	\checkmark		400	
LE-440 <i>i</i>	150	12,650	99.30	not tested	600		\checkmark	440	
SG30LE-440 <i>i</i>	107	10,000	99.50	not tested	600			440	
SG30-400/34i	225	10,200	99.50	not tested	600		\checkmark		
SW30XHR-400 <i>i</i>	800	6,000	99.80	93-94 ¹	1,200	\checkmark		400	
SW30HR-370/34i	800	6,300	99.75	91	1,200			370	
SW30HRLE-400i	800	7,500	99.75	90	1,200		\checkmark	400	
SW30XLE-400 <i>i</i>	800	9,000	99.70	89	1,200		\checkmark	400	
SW30ULE-400 <i>i</i>	800	11,000	99.70	87	1,200		\checkmark	400	

FILMTEC[™] Elements Available with *iLEC*[™] Technology

¹Tentative specification based on in-house testing and first 1,000 elements – decision on high/low number to be made after field demonstration.

BW30 – Test conditions: 2,000 ppm NaCl, 225 psi (15.5 bar), 77°F (25°C), pH 8 and 15% recovery.

LE – Test conditions: 2,000 ppm NaCl, 150 psi (10.3) bar), 77°F (25°C), pH 8 and 15% recovery.

SG - Test conditions: 2,000 ppm NaCl, 150 psi (10.3 bar) for SG30 LE-440i and 225 psi (15.5 bar) for SG30-400/34i, 77°F (25°C),

pH 8 and 15% recovery.

SW - Test conditions: 32,000 ppm NaCl, 800 psi (5.5 M Pa) 77°F (25°C), pH 8 and 8% recovery.

For More Information

For more information about *iLEC*™, call Dow Water Solutions: North America: 1-800-447-4369 Latin America: 55-11-5188 9222 Europe: +800-3-694-6367 Asia/Pacific: +800 7776 7776 www.dowwatersolutions.com Notice: No freedom from any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, 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. Seller assumes no obligation or liability for the information in this document. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

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