



Crease Protector Technology (CPT)

For SB & SD Ultrafiltration (UF), Reverse Osmosis (RO) & Nanofiltration (ATF) Sanitary Spiral Elements



CPT Technology

In the element rolling process, it is industry-wide practice for the membrane leaf to be “creased” or “folded” at the permeate water tube creating a membrane weak point that requires further protection.

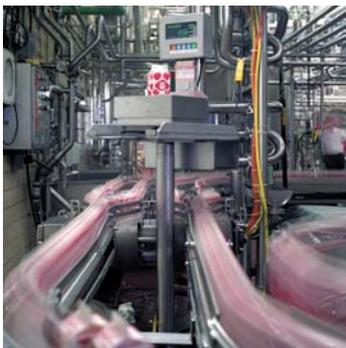
Various methods have been used to reinforce this crease area in order to avoid premature membrane failures. A common practice is to apply glue in the “fold” on the surface of the membrane. However, a typical consequence of this method can be the development of step cracks resulting in failures. There is also the potential to cause contamination in the concentrate. Additionally, the application of glue during the rolling process can be problematic in manufacturing.



Parker's new crease protector technology (CPT) creates a cleaner, stronger, more robust element by eliminating potential areas of premature membrane failure. Our proprietary technology applies glue to reinforce the crease area prior to the assembly of the element.

Benefits

CPT not only eliminates issues in the rolling process, but reduces potential product contaminations with both permeate and concentrate. This makes the element more durable which increases product life and reduces operating costs.



The value-added benefits of CPT include:

- Elimination of step cracks
- Improved sanitary conditions
- Prolonged life of separation elements
- No change to process flux and rejection

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Elements

Nanofiltration (ATF)

NF 200 are thin film composite (TFC) membrane typically rejecting organics above 200 molecular weight and separating monovalent ions from multivalent ions.

Reverse Osmosis (RO)

The RO thin film composite (TFC) membrane with high rejection rates and enhanced durability.

SB & SD Ultrafiltration (UF)

The PES Membrane with polyester support for high rejection rates of proteins.



For more information, please contact your local sales representative.

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