



**UNISOL**  
Membrane Technology



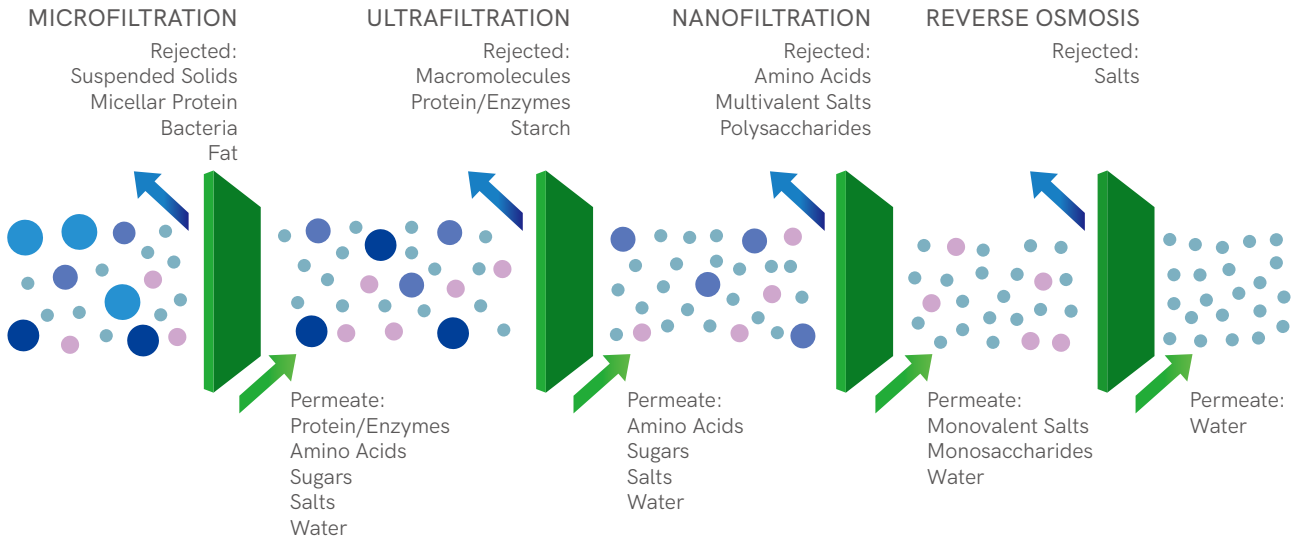
# **SPIRAL WOUND MEMBRANE ELEMENTS**

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WIDE RANGE • FDA COMPLIANT • CUSTOMIZED

# WIDE RANGE OF SPIRAL WOUND ELEMENTS

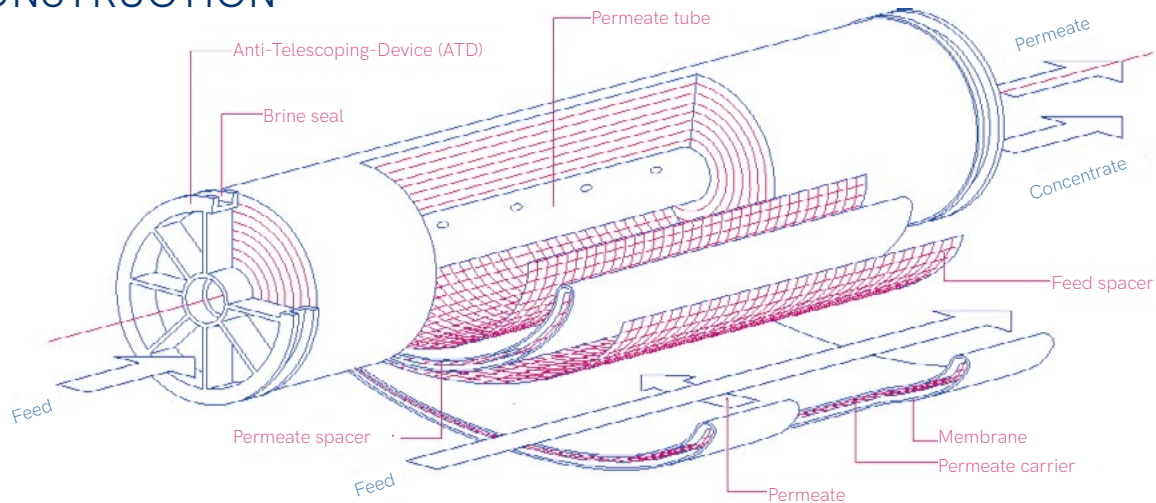
To cover the high variety of applications, UNISOL provides the complete spectrum of MF, UF, NF and RO spiral wound elements, the module design stretches from standard elements to fully customized specialty products.



## EXAMPLES OF APPLICATIONS

E-coat	Standardization of milk	Cream cheese production
Concentration of protein and gelatin	Whey concentration processing	Clarification of cheese brine
Enzymes, fermentation broths	Clarification of soy sauce	Acid recovery
Caustic recovery	Industrial water	Oil / Water emulsions






## SPIRAL WOUND ELEMENT CONSTRUCTION



## PRODUCT CODES FOR SPIRAL WOUND ELEMENTS

SN	UPS010	8038	C
Design / Application	Membrane Type / MWCO	Diameter / Length	Feed spacer
<p>SN Sanitary Design</p> <p>SH Sanitary + High °C</p> <p>ID Industrial Design</p> <p>EC Electro Coating</p> <p>PD Pharmaceutical Design</p> <p>FG Fiberglass</p> <p>CR Caustic Resistant</p> <p>AR Acid Resistant</p> <p>HP High Pressure Resistant</p> <p>TR Temperature Resistant</p> <hr/> <p>Here Sanitary Design</p>	<p>Membrane Materials</p> <p>UPS Polyethersulfone</p> <p>USP Polysulfone</p> <p>UPV Polyvinylidene Flouride</p> <p>MPV Polyvinylidene Flouride</p> <p>NFDK/NFDL Piperazinamide</p> <p>SW3013 Polyamide</p> <hr/> <p>Here Polyethersulfone MWCO 10kDa</p>	<p>Standard Dimensions</p> <p>2540</p> <p>3838</p> <p>4040</p> <p>4333</p> <p>6338</p> <p>8038</p> <p>8040</p> <p>8338</p> <hr/> <p>Here Diameter 8.0inch Length 38inch</p>	<p>Standard Feed Spacers</p> <p>A 34mil (parallel)</p> <p>B 31mil (diamond)</p> <p>C 46mil (diamond)</p> <p>D 51mil (parallel)</p> <p>E 65mil (diamond)</p> <p>F 80mil (diamond)</p> <p>G 80mil (parallel)</p> <p>H 60mil (parallel)</p> <p>J 28mil (diamond)</p> <p>M 34mil (diamond)</p> <hr/> <p>1 mil = 0.001 inch 1 mil = 0.0254 mm</p> <hr/> <p>Here 46mil diamond</p>

## ADVANTAGES

 FDA Compliant Materials	 Wide range of membrane types	 High temperature resistance
<p><b>pH</b></p> High pH, solvent resistance	 Great mechanical strength	 Customization

## OPERATING CONDITION FOR SPIRAL WOUND ELEMENTS

Type	SN/ID/PD	SH	FG	EC	CR	AR	HP	TR
Max. operating pressure loss (bar)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Max. operating pressure loss (psi)	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
Max. Temperature (°C )	50	80	50	50	50	50	50	80
Max. Temperature ( °F )	122	176	122	122	122	122	122	176
pH range during filtration	2-10	2-11	2-11	2-10	3-13	1-12	2-11	2-10
Outer wrap	Net Wrap	Net Wrap	FRP	Net Wrap	FRP	FRP	FRP	FRP

## WE SUPPORT YOU - WORLDWIDE!



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UNISOL MEMBRANE TECHNOLOGY reserves the right to change specifications without prior notification.  
For the latest version, please refer to the internet. [info@unisol-global.com](mailto:info@unisol-global.com)  
[www.unisol-global.com](http://www.unisol-global.com) | [www.wta-unisol.com](http://www.wta-unisol.com)

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