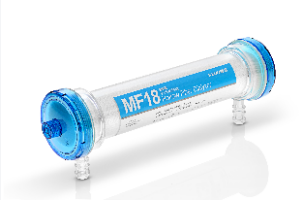
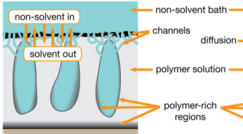
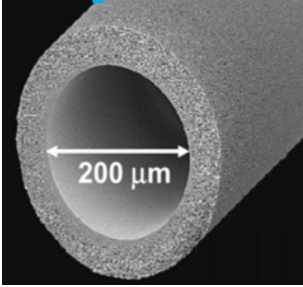


# Polymer solution spinning (NIPS)

| APPLICATIONS                                                                                                                | THEORY, KNOWLEDGE, & MODELS                                                                                          | CAPABILITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Hemodialysis</b></p>                 | <p><b>Wastewater Treatment</b></p>  | <p><b>NIPS process - basics, formulations, applications</b></p> <p><b>characterization (+focus on hemo)</b></p>  <p><b>*Nips Hollow-fiber Spinning</b></p> <ul style="list-style-type: none"><li>MF/UR/NH fiber membranes</li></ul>  <ul style="list-style-type: none"><li>✓ Two mixing-tank systems for Sulfone &amp; PVDF</li><li>✓ Homogenous &amp; Supported HF Spinning</li><li>✓ Trustech Nozzle 0.4/0.7/1.2 mm</li><li>✓ Max. Take-up Speed 100m/min</li></ul>  |
| <p><b>Drinking-water Purification</b></p>  | <p><b>Biopharma Separation</b></p>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p><b>Gas Separation</b></p>             | <p><b>Food &amp; Beverage filtration</b></p> <p><a href="#">blocked URL</a></p>                                      | <p><b>*Nips Hollow-fiber Spinning</b></p> <ul style="list-style-type: none"><li>Sulfone Hemodialysis membranes</li></ul>  <ul style="list-style-type: none"><li>✓ Two mixing-tank systems for Pellet and Powder Sulfone</li><li>✓ BICO dual pumps for precise Bore/Dope-flow control</li><li>✓ Kesen Nozzle 0.18/0.28/0.4 mm</li><li>✓ Max. Take-up Speed 45m/min</li></ul>                                                                                                                                                                          |