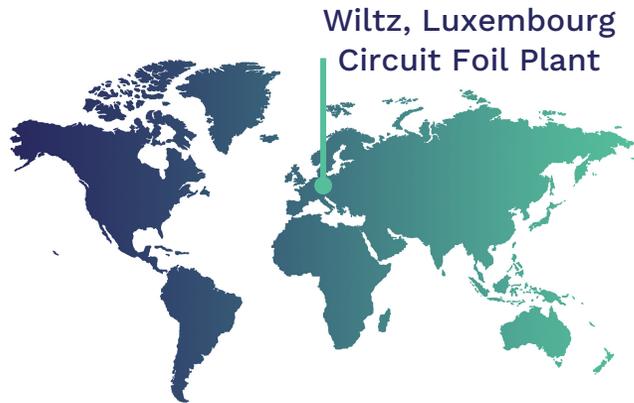


Case studies Kynar<sup>®</sup>  
& Adheflon<sup>®</sup> 51H for  
industrial process  
water treatment

# KYNAR® / Adheflon®51H FOR INDUSTRIAL PROCESS WATER

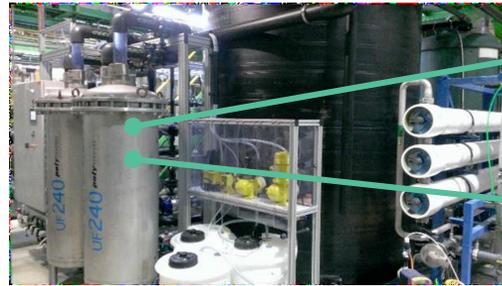
## Polymem Neophil® membrane for Circuit Foil plant in Luxembourg



Wiltz, Luxembourg  
Circuit Foil Plant

### Key facts about Circuit Foil plant in Luxembourg

- Circuit Foil: worldwide leading supplier of copper foils to high-tech industries (printed circuit board manufacturers)
- In Wiltz, waste process water was treated as follows: decanter / sand filter / 30µm pre-filters / ion exchanger / Reverse Osmosis (RO). To decrease the frequency of RO membranes replacement, ultrafiltration prior to RO was implemented.
- Installed in February 2015 with PSU membranes and replaced in October 2017 by Neophil® membranes based on Kynar® & Adheflon®51H additive.



2 modules to produce 30 m<sup>3</sup>/h of ultra-filtered water

Effluent treated contains mainly bacteria (more than 1 million per liter)



**KYNAR®**  
**Adheflon®51H**

### Outcome

- Lower chemical consumption compared to PSU membranes: no need for use of caustic for enhanced backwashes & bacteria removal
- Permeability back up to the initial value after each maintenance cleaning. RO downstream of the UF performs better: no flow loss and stable permeate conductivity.

### Value Chain

