KYNAR® PVDF WATER FILTRATION MEMBRANE
CASE STUDY

KYNAR® DH100 FOR INDUSTRIAL PROCESS
WATER IN LUXEMBOURG

Circuit Foil Plant
Wiltz, Luxembourg

Membrane Partner
Polymem
www.polymem.fr
Circuit Foil is a leading worldwide supplier of copper foils to high-tech industries particularly printed circuit board manufacturers.

In the plant of Wiltz, prior to the installation of ultrafiltration, the waste process water was treated as follow: decanter / sand filter /30μ pre-filters / ion exchanger / Reverse Osmosis (for antimony removal). The reverse Osmosis membranes were replaced approximately every three months. To decrease this RO membranes replacement frequency and optimize the process operation, the use of ultrafiltration prior to RO was envisaged.

Installed in February 2015 with PSU membranes and replaced in October 2017 by Neophil® membranes based on Kynar® DH100.

The general behavior is good with less chemicals consumption than for PSU membranes (caustic is no more used during chemical enhanced backwashes). The bacteria removal efficiency reaches the same level.

The permeability goes back up to the initial value after each maintenance cleaning. Reverse osmosis downstream of the UF works much better, no flow loss and stable permeate conductivity.
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