

FLAT SHEET MEMBRANES

Flat sheet membranes are designed for use in process filtration units and other bench scale test equipment, including the HP4750 stirred cell, CF042 Cell, or Sepa. These polymeric membranes are also ideal for any process requiring the testing of a variety of separation techniques. Flat sheet membranes are available for RO, NF, UF, MF, and FO applications in rectangles, squares, or sheets pre-cut to fit specific process filtration units.

PROCESS	APPLICATIONS	
Reverse Osmosis	• Desalination • Acid concentration • Antibiotic concentration • Reactive silica removal • Evaporator condensate	• Dyehouse wastewater reclamation • Laundry wastewater reclamation • Fruit juice concentration • Starch/sugar
Nanofiltration	• Acid purification • Cheese whey desalting • Alcohol purification • Antibiotic concentration • Heavy metal removal • Sugar fractionation	• Water softening • Detergent • BOD/COD reduction • Dextrose purification • Plating waste
Ultrafiltration	• Organics purification • Protein separation • Colloidal silica removal • Dye purification • Quenchant recovery • Suspended solids removal	• Oil/water separations • Enzyme concentration • Whey concentration • Organics fractionation • Cell harvesting
Microfiltration	• Cell harvesting • Lysate clarification • Oil/water separations	• RO/NF pretreatment • Suspended solids removal
Forward Osmosis	• Water reclamation from oil and gas exploration • Landfill wastewater • Carpet manufacturing wastewater • Pressure Retarded Osmosis (PRO) to generate electricity	• Alternative energy/biogas wastewater • Medical/dental wastewater • Membrane bioreactors • Seawater desalination • Radioactive wastewater
Organic Solvent Nanofiltration	• Removal of impurities or product purification • Monomer/dimer separation • Molecular fractionation • Room temperature solvent exchange	• Catalyst recovery and recycle • Color removal • Solvent recycling