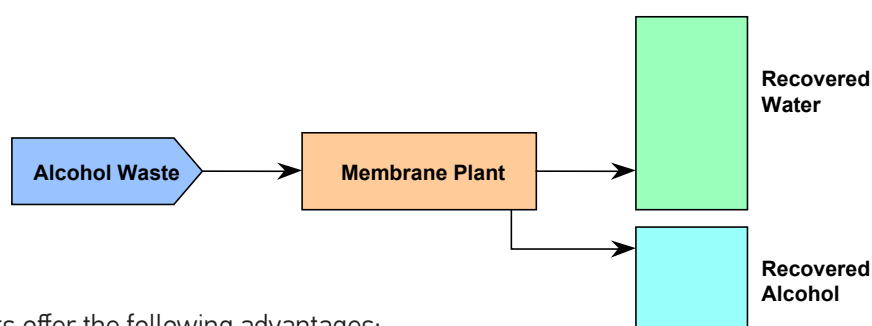


FOOD & BEVERAGE APPLICATION

ALCOHOL RECOVERY

Low molecular weight alcohols, primarily methanol and ethanol, are extensively used as solvents and cleaners in many industries. During process operations they become contaminated, and depending on the actual application, may need to be purified prior to recovery. Membranes offer the following advantages compared with conventional distillation or purification plants:

- Low capital and operating costs;
- Optimum product recovery;
- Reliable and easy to operate;
- Modular and easy to upgrade.



Esmil Process Systems membrane plants offer the following advantages:

- Long performance;
- Easy clean;
- Robust construction;
- Suitable for challenging applications:
 - High temperature;
 - High/low pH.

SPECIALISTS IN THE TREATMENT OF CHALLENGING INDUSTRIAL EFFLUENTS

PROVEN MEMBRANE APPLICATIONS

INDUSTRY	APPLICATION
Metal processing	Recovery and reuse of Sulphuric Acid
Metal preparation	Reclamation of metal salts
Metal finishing	Treatment and recycle of rinse water
Panel Board Industry	Product (fibre) recovery from effluent
Pulp & Paper Industry	Effluent treatment – reduction of suspended and soluble organics Treated effluent reduction, recycle and re-use
Textile Dye Manufacturing	Product (dye) concentration, purification and recovery
Industrial Laundries	Oily waste water treatment Treated effluent reduction, recycle and re-use
Food & Beverage Processing	Product concentration, purification and recovery Recovery and re-use of contaminated condensate Treatment and recycle of bottle washing effluent
Pharmaceutical Industry	Product recovery by separation and fractionation
Biotechnology	Effluent treatment – reduction of suspended and soluble organics Treated effluent reduction, recycle and re-use

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