

Industrial Membranes Overview

For over 20 years, GE has served a large range of industrial fluid separation needs by providing spiral wound membrane elements. The membranes are used in both process separation and water stream recovery. Membranes that treat the process streams add value in various ways including: purifying and concentrating valuable products, isolating valuable by-products, and recovering, reusing important fluid materials. Membranes that treat influent water sources prepare the water for any usage within the industrial process for dissolving, mixing, diluting, rinsing, quenching, cooling or in the utilities, for boilers and cooling tower feed. Membranes are also used to treat wastewater to enable water reuse in the facility or to meet effluent discharge requirements.

GE has a wide range of membranes for industrial application meeting all of your fluid stream needs. This range includes microfiltration (MF) for clarification applications and for suspended solids removal, ultrafiltration (UF) for applications such surface water pre-filtration, TOC/color removal, nanofiltration (NF) for salt separation, dye removal / concentration or metals recovery and reverse osmosis (RO) for water recovery & process stream concentration.

Not only does GE offer a wide spectrum of membranes, but these are also available in a diversity of configurations to meet your key fluid characteristics (temperature, viscosity, solid content) as well as the specific process requirements like pressure and sanitation.

Industrial Membranes by Membrane Type

RO	NF	UF	MF
SE Series SG Series	DK Series DL Series	GE Series GH Series GK Series PT Series PW Series MW Series	JX Series

Specific Industrial Applications

Application	Product Name	Membrane Type
Brine Purification	DK, DL Series	NF
Dye Desalting	DK, DL Series	NF
Textile Effluent Treatment	GH, GK Series	UF
Hot Product Demineralization, Concentration	Duratherm* EXL	NF, RO
Hot Condensate Recovery	Duratherm STD	RO
High Value Organic Fractionation	GE, GH, GK Series	UF
Acid Recovery, Metal Reclamation	Duracid	NF
Landfill Leachate	Industrial RO3, DuraSlick*	RO, NF
Emulsified Oil/Water Separation	MW Series	UF
Electro-Deposition Paint Concentration	JX-Series	MF



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