

industrial membranes overview

For over 20 years, SUEZ 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.

SUEZ 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 SUEZ 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 | 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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