



FILMTEC Membranes

Membrane Start-Up Performance and Stabilization

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The start-up performance of an RO/NF membrane system and the time required to reach the stabilized performance depends on the prior storage conditions of the membrane. Dry membranes and wet preserved membranes, if properly stored, reach the same stabilized performance after some hours or a few days of operation. The flow performance of wet membranes is typically stable right from the start, while dry membranes tend to start at a slightly higher flow. The salt rejection of FILMTEC™ membranes in general improves during the first few hours or days of operation and remains stable then. Wet membranes stabilize faster than dry membranes.

Special Systems: Double Pass RO

When a double pass system is started up, the first pass system must have been in operation for at least 24 hours before the permeate of the first pass is fed to the membranes of the second pass. Otherwise a permanent flux loss of the second pass may result. The pH of the feedwater to both passes have to be adjusted for optimum results in rejection. A final product water conductivity of $< 1 \mu\text{S}/\text{cm}$ is being obtained routinely from brackish water sources with double pass BWRO membrane systems.

Special Systems: Heat Sanitizable RO

New HSRO heat sanitizable spiral elements must be pre-conditioned prior to initial use by exposure to hot water. Please refer to [Heat Sanitization \(Section 6.10.4\)](#).

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For more information about FILMTEC membranes, call the Dow Liquid Separations business:

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Notice: The use of this product in and of itself does not necessarily guarantee the removal of cysts and pathogens from water. Effective cyst and pathogen reduction is dependent on the complete system design and on the operation and maintenance of the system.

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