



TRISEP® TS80

High Rejection NF Membrane

TRISEP® TS80 flat sheet is a versatile nanofiltration membrane that offers high solute rejection of both salts and uncharged organic solutes while operating at lower pressures than reverse osmosis membranes. In many water purification applications, TS80 is considered a "softening" membrane, and operates at a pressure of about 100 psi. TS80 membrane sheet is available in both dry and wet flat sheet rolls and is FDA compliant.

MEMBRANE CHARACTERISTICS

Membrane Chemistry	Backing Material	Stabilized MgSO ₄ Rejection (%) ^a	Minimum MgSO ₄ Rejection (%)
Thin-Film Polyamide	Non-Woven Polyester	99.2	98.5

Flux Range LMH (GFD) ^b	Thickness (µm)	pH Range	Chlorine Tolerance ^c
49.3 - 81.6 (29.0 - 48.0)	130 - 170	1.0 - 12.0	< 0.1 ppm

a Typical NaCl rejection: 80%

b Test conditions: 2,000 ppm MgSO₄, 7.6 bar (110 psi), 25°C (77°F), 15% recovery, pH 8.0, 30 minutes operation. Membrane specifications may change without notice as design revisions occur.

c Oxidizing agents, such as free chlorine, in contact with polyamide membranes may result in shortened operating life or membrane failure.

IMPORTANT INFORMATION

Standard Sizes: TRISEP flat sheet membrane is available in a sample size of 305 mm x 1,016 mm (12 in x 40 in) and in a nominal roll size of 305 m x 1,016 mm (1,000 ft x 40 in). Custom lengths may be available on request.

Initial Flush: MANN+HUMMEL Water & Fluid Solutions recommends flushing membrane for 30 minutes and discarding permeate during the flush prior to operation.

Storage: Membrane is shipped dry unless wet membrane is specifically requested. Membrane shipped dry should be stored in a cool, dry place. If shipped wet, TRISEP membrane must remain sealed and refrigerated prior to use. Please see Membrane Storage Guide – Flat Sheet Membrane (TSG-O-011).

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