



Membrane Products

TRISEP® Reverse Osmosis (RO)

ACM1	Higher Rejection RO	NaCl	99.5% ¹
ACM2	"Standard" High Rejection RO	NaCl	99.5% ¹
ACM3	Higher Productivity RO	NaCl	99.3% ¹
ACM4	Low Energy RO	NaCl	99.3% ¹
ACMX™	Ultra-Low Pressure RO	NaCl	99.0% ^{2, 7}
X-20™	Low-Fouling RO	NaCl	99.5% ¹
SB20	High Rejection Cellulose Acetate	NaCl	98.0% ³
SB50	Higher Productivity Cellulose Acetate	NaCl	96.0% ³

TRISEP® Nanofiltration (NF)

TS80	Higher Rejection / "Softening" NF	MgSO ₄ NaCl	99.0% ⁴ 80.0% ⁵
TS50	Higher Rejection NF for Separations and Desalting	MgSO ₄ NaCl	99.0% ⁴ 50.0% ⁵
TS40	NF for Separations and Desalting	MgSO ₄ NaCl	99.0% ⁴ 40.0% ⁵
XN45	NF for Purification, Separation and Demineralization	MgSO ₄ NaCl	96.0% ⁴ 20.0% ⁵
UA60	Open NF for Purification, Separation and Demineralization	MgSO ₄ NaCl	80.0% ⁴ 10.0% ⁵
SB90	Cellulose Acetate NF for Low Pressure Water Purification	NaCl	85.0% ¹
SBNF	Cellulose Acetate for Color Removal	MWCO NaCl	2,000 Da 40 – 60% ⁶

TRISEP® Ultrafiltration (UF)

UF5	PES UF Membrane	MWCO	5,000 Da
UF5pHT*	PES UF Membrane	MWCO	5,000 Da
UF10	PES UF Membrane	MWCO	10,000 Da
UF10pHT*	PES UF Membrane	MWCO	10,000 Da
UE50	PES UF Membrane	MWCO	100,000 Da
UB50	PES UF Membrane	Pore Size	0.03 µm
UB70	PVDF UF Membrane	Pore Size	0.03 µm

TRISEP® Microfiltration (MF)

MF01	PES MF Membrane	Pore Size	0.1 µm
TM10	PVDF MF Membrane	Pore Size	0.2 µm

NADIR® Nanofiltration (NF)

NP030*	Acid/Caustic Stable PES NF Membrane	Na ₂ SO ₄	80 – 95% ⁸
NP010*	Acid/Caustic Stable PES NF Membrane	Na ₂ SO ₄	35 – 75% ⁸

NADIR® Ultrafiltration (UF)

UH004*	PESH UF for Protein Concentration	MWCO	4,000 Da
UP005*	PES UF for Protein Concentration	MWCO	5,000 Da
UP010*	PES UF for Protein Concentration	MWCO	10,000 Da
UP020*	PES UF for Protein Concentration	MWCO	20,000 Da
UH030*	PESH UF for Protein Separation	MWCO	30,000 Da
UH050*	PESH UF for Protein Concentration	MWCO	50,000 Da
US100*	PSH UF for Treatment of Fermentation Broth	MWCO	100,000 Da
UP150*	PES UF for MBR	MWCO	150,000 Da
UV150	PVDF UF Membrane for E-Coat Paint	MWCO	150,000 Da

NADIR® Microfiltration (MF)

MP005*	PES MF for Cell Separation	Pore Size	0.05 µm
MV020	PVDF MF for Particle Filtration	Pore Size	0.20 µm

¹ 2,000 mg/L NaCl @ 15.5 bar (225 psi), 25°C (77°F), pH 8

² 500 mg/L NaCl @ 6.9 bar (100 psi), 25°C (77°F), pH 8

³ 2,000 mg/L NaCl @ 29.0 bar (420 psi), 25°C (77°F), pH 8

⁴ 2,000 mg/L MgSO₄ @ 7.6 bar (110 psi), 25°C (77°F), pH 8

⁵ Approximate rejection at 2,000 mg/L NaCl @ 7.6 bar (110 psi), 25°C (77°F), pH 8

⁶ Approximate rejection at 2,000 mg/L NaCl @ 9.7 bar (140 psi), 25°C (77°F), pH 8

⁷ Two versions of ACMX™ membrane currently available

⁸ 5,000 mg/L Na₂SO₄ @ 40 bar (580 psi), 20°C (68°F)

* Available on PP backing