NANOFILTRATION MEMBRANES

INDUSTRIAL-PURPOSE ELEMENT

Production Introduction



The industrial nanofiltration element is designed for removing from water various organics, microbes, viruses and most metallic ions with two or higher valence while retaining part of the sodium, potassium, calcium and magnesium ions, etc. Nanofiltration, free of chemical reaction, heating and transformation, can keep the biological activity undamaged and maintain the primary flavor or fragrance of substance unchanged, and is increasingly applied in production of drinking water and in separation and concentration/purification processes for foodstuff, medicine, biological engineering and pollution treatment, etc.



Relatively low rejection rate of monovalent salt; Moderate rejection rate of divalent salt; High removal rate of TOC.



Higher rejection rate; Satisfactory removal of insecticide, herbicide, TOC and transition metals

With new design of wider feedwater channel, this element is designed for special-purpose

separation, and has better pressure resistance and fouling resistance, and has higher selective separation performance to monovalent, divalent and multivalent ions.

Testing Conditions

Testing Pressure100 psi (0.69Mpa)

Temperature of Testing Solution......25°C

Concentration of Solution (NaCl) 2000ppm

Concentration of Solution (MgSO₄) 2000ppm

pH Value of Solution.....7.5

Single Element Recovery...... 15%

VONTRON



Specifications and Major Properties

Model	Active Membrane Area ft²(m²)	Solution Type	Average Permeate GPD(m³/d)	Stable Rejection(%)
VNF1-8040	400 (37.2)	NaCl	12000 (45.5)	30 ~ 50
		MgSO₄	10000 (37.9)	≥96
VNF2-8040	400 (37.2)	NaCl	10000 (37.9)	90 ~ 98
		MgSO₄	10000 (37.9)	≥96
VNF-8040K	400 (37.2)	MgSO ₄	10000 (37.9)	≥98
VNF1-4040	80 (7.4)	NaCl	2400 (9.1)	30 ~ 50
		MgSO₄	2000 (7.5)	≥96
VNF2-4040	80 (7.4)	NaCl	2000 (7.5)	90 ~ 98
		MgSO₄	2000 (7.5)	≥96
VNF1-2540	28 (2.6)	NaCl	800 (3.03)	30 ~ 50
		MgSO₄	650 (2.46)	≥96
VNF2-2540	28 (2.6)	NaCl	700 (2.65)	90 ~ 98
		MgSO₄	700 (2.65)	≥96