



Somicon AG

## Nitto Standard Spiral Wound Membrane List

Status January 2007

Typ	Material	Operation	max. pH Range (1)	max. op. Pressure (bar)	max. Temp. (C°)-(2)	Apparent Retention (3)	Max Feed Flow (L/m)	Minimum Concentrate Flow (L/m)	Available Sizes (4)	Additional Literature (5)	Average Water Flux (m <sup>3</sup> /d) at test conditions(6)
NTR-7410	Modified PES	NF	2-11	40	40	10 % NaCl	25 42	5 10	2.5 4	yes	8 25
NTR-7410 HG	Modified PES	NF	2-11	40	60	10 % NaCl	25 42	5 10	2.5 4	yes	6 20
NTR-7450 HG	Modified PES	NF	2-11	40	60	50 % NaCl	25 42	5 10	2.5 4	yes	4.5 20
NTR-7450 HG (T)	Modified PES	NF	2-11	40	60	50 % NaCl	60	10	4	yes	10
NTR-7250 HG	Properitary	NF	2-8	25	45	50 % NaCl	25 42	5 10	2.5 4	yes	
NTR-729 HG	Properitary	NF	2-8	25	45	90 % NaCl	25 42	5 10	2.5 4	yes	2 6.5
ES10	Aromatic Polyamide	RO	2-10	42	40	99.5% NaCl	25 42 200	5 10 45	2.5 4 8	**	1.5 6.7 30
ES15	Aromatic Polyamide	RO	2-10	30	40	99.5 % NaCl	245	45	8	**	37
LF10	Special, Low Fouling	RO	2-10	30	40	99.5 % NaCl	25 42 200	5 10 45	2.5 4 8	yes	1.6 7 30
ES 20	Aromatic PA	RO	2-10	40	40	99.7 % NaCl	48 245	12 56	4 8	yes	6 30
NTR-759 HR	Aromatic Polyamide	RO	2-10	30	80	99.5 % NaCl	25 42 200	5 10 45	2.5 4 8	yes	1.6 7 30
NTR-759 HG	Aromatic Polyamide	RO	2-10	30	80	99.5 % NaCl	25 42	5 10	2.5 4	yes	1.6 7 30
NTR-70 SWC	Aromatic Polyamide	RO	2-10	55	80	99.7 % NaCl	25 42 200	5 10 45	2.5 4 8	yes	1 4
NTR-70 HG	Aromatic Polyamide	RO	2-10	55	60	99.7 % NaCl	25/42	5/10	2.5/4	yes	1 4
ES20-U	Aromatic Polyamide	RO	2-10	40	40	99.7 % NaCl	48/245	10/45	4/8	yes	6 30
NTR-759 UP	Aromatic Polyamide	RO	2-10	40	40	99.5 % NaCl	200	45	8	yes	8
LES90 HG	Special	NF	1-10***	40	60	95 % NaCl	25/42	5/10	2.5/4	yes	** **

1) Normally a pH of max. + 1 can be used for cleaning for short intervals

2) Please consult Somicon for process design.

3) As determined under standard test conditions

4) For other sizes, consult Somicon

5) We assist our customers on the basis of dozens of processes realized by us. Confidential data available only after secrecy agreement

6) Based on test conditions, for orientation only

\*\* no data

Testing Facility and Pilot Plants available at Somicon, Basel site

Other derivative membranes have been developed for special applications. For your process please contact Somicon AG