

SnowPure Excelliontm

Ion Exchange Membranes

SnowPure, LLC
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MEMBRANE SPECIFICATIONS	Excellion TM	
	CATION MEMBRANE p/n I-100, MI-100	ANION MEMBRANE p/n I-200, MI-100
MEMBRANE TYPE	Heterogeneous, Strong Acid	Heterogeneous, Strong Base, Type I
CHEMICAL FORM	Na(+) Form	Cl(-) Form
STANDARD WIDTH, DRY:	INCHES CM	13 33
STANDARD LENGTH:, DRY	FEET METERS	Up to 100 Up to 30.5
MEMBRANE THICKNESS: (DRY)	INCHES MM	0.0125 – 0.0135 0.32 – 0.34
ELECTRICAL RESISTANCE 0.5N NaCl	(ohm-cm ² , DC) 7.5 – 12.5	(ohm-cm ² , DC) 5 - 10
WATER PERMEABILITY ml / min / cm ² / psi	Less than 0.0005	Less than 0.0005
MULLEN BURST TEST	TYPICAL MINIMUM	44-47 PSI 15 PSI
TOTAL CAPACITY	meq/sqm	Maximum 400-500
NORMAL TEMPERATURE STABILITY H/OH form Na/Cl form (as supplied)	90°C 90°C	60°C 90°C
CHEMICAL STABILITY @ 50°C Up to 45% H ₂ SO ₄ Up to 45% HCl Up to 35% NaOH pH 0-13	Stable Stable Stable Stable	Stable Stable Stable Stable
NOTES:	<ul style="list-style-type: none"> • EXCELLIONTM should be preconditioned by expanding in 85-90°C DI water for 24-48 hours. • Membranes swell 15-25% in all dimensions when preconditioned. • Custom ion-exchange membranes can be made on request. 	

Manufactured under US Patents 6,503,957 and 6,716,888.

GENERAL LIMITED WARRANTY

Excellion Ion Exchange Membranes are offered for sale and warranted, as indicated below, by SnowPure LLC.

All information included herein falls within the normal range of product properties and is based on technical data that SnowPure believes to be reliable. This information should not be used to establish specification limits, nor used alone as the basis of design. It is the user's responsibility to determine the suitability of the product described in this bulletin and that the user's particular conditions of use present no health or safety hazards. Product samples are routinely offered by SnowPure to establish suitability and conditions of use, both of which are the sole obligation of the user.

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