

SCOTTCART MEMBRANE PES

SINGLE LAYER ASYMMETRIC MEMBRANE CARTRIDGES DESIGNED FOR
REMOVAL OF YEAST AND BACTERIA (MICROBIAL STABILITY) IN BEVERAGES

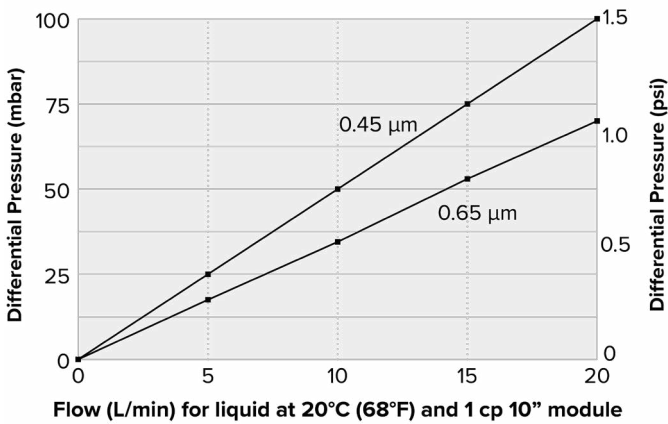
DESCRIPTION

ScottCart final membrane polyether sulfone (PES) cartridges were optimized for sterile filtration of wine, cider, sparkling wine, beer, etc. The inert and highly asymmetric PES membrane provides validated microbial retention to typical spoilage organisms.

FEATURES

- Can be integrity tested
- Can be chemically regenerated
- Compatible with pH range of 1-14

PERFORMANCE CHARACTERISTICS



SPECIFICATIONS

MATERIALS OF CONSTRUCTION

CARTRIDGE AREA	MATERIAL
FILTRATION MEMBRANE:	Polyethersulphone
UPSTREAM SUPPORT:	Polyester
DOWNSTREAM SUPPORT:	Polyester
SUPPORT CORE:	Polypropylene
OUTER PROTECTION CAGE:	Polypropylene
END CAPS:	Nylon
END CAP INSERT:	316L Stainless Steel
O-RINGS:	Silicone

FOOD CONTRACT COMPLIANCE

Materials conform to the relevant requirements of FDA 21 CFR Part 177, current EC1935 / 2004 and current USP Plastics Class VI - 121°C (249.8°F).

OPERATING LIMITS

Up to 70°C (158°F) continuous operating temperature and higher short-term temperatures during CIP to the following limits:

TEMPERATURE		MAX. FORWARD dP	
°C	°F	BAR	PSI
20	68	5.0	72.5
40	104	4.0	58.0
60	140	3.0	43.5
80	176	2.0	29.0
90	194	1.0	14.5
> 100	> 212 (steam)	0.3	4.0

EFFECTIVE FILTRATION AREA (EFA)

10" (250 mm)	Up to 0.6m ² (6.45 ft ²)
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CLEANING AND STERILIZATION

ScottCart Membrane PES cartridges can be repeatedly steam sterilized in-situ or autoclaved at a maximum temperature of 130°C (266°F). However, **we recommend steam sanitizing up to 121°C (250°F) for 20 minutes** to prolong the lifespan of the cartridge.

They can be sanitized with hot water at up to 90°C (194°F) and are compatible with a wide range of chemicals. Please refer to our Directions for Use document or contact Scott Laboratories for more information.



RETENTION CHARACTERISTICS

The retention characteristics of ScottCart Membrane PES filters have been validated by challenges performed with the following organisms.

ORGANISM	LRV when challenged with a minimum of 10 ⁷ cfu per cm ²	
	0.45	0.65
<i>Saccharomyces cerevisiae</i>	FR	FR
<i>Brettanomyces bruxellensis</i>	FR	FR
<i>Lactobacillus brevis</i>	FR	FR
<i>Acetobacter oeni</i>	FR	FR
<i>Serratia marcescens</i>	FR	FR

*FR - Fully retentive during challenge
When expressed as titre reduction "FR" equates to >10⁷ per 10" module.

INTEGRITY TEST DATA

All filters are flushed with pharmaceutical grade purified water prior to dispatch. They are integrity tested to the following limits:

TEST PARAMETERS	MICRON RATING	
	0.45	0.65
DIFFUSIONAL FLOW		
Test Pressure (bar)	1.4	1.0
Test Pressure (psi)	20.0	15.0
Max. diffusional flow per 10" (ml/min)	16.0	16.0
BUBBLE POINT		
Test Pressure (bar)	2.0	1.3
Test Pressure (psi)	29	19
PRESSURE HOLD		
Test Pressure (bar)	1.6	1
Test Pressure (psi)	23	15

MANUFACTURING TRACEABILITY

Each filter cartridge displays the product name, product code and lot number. Additionally, each module displays a unique serial number providing full manufacturing traceability.

ORDERING INFORMATION

- 0.45 micron, 30" Code 7, item number: 7845073
- 0.65 micron, 30" Code 7, item number: 7865073