

### SCOTTCART MEMBRANE PES 0,45 - 0,65

#### DESCRIPTION

ScottCart Membrane 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

ScottCart Membrane PES, inert and highly asymmetric, provides proven microbial retention to common spoilage organisms, while preserving the unique properties of the wine and ensuring that it reaches the consumer as desired by the winemaker. Combined with hydrophilic properties that facilitate integrity testing, ScottCart Membrane PES filters offer guaranteed performance throughout their lifetime.

ScottCart Membrane PES filters have been designed to offer a cost-effective solution for the microbial stabilization of wine, ensuring greater process control and greater operational efficiency.

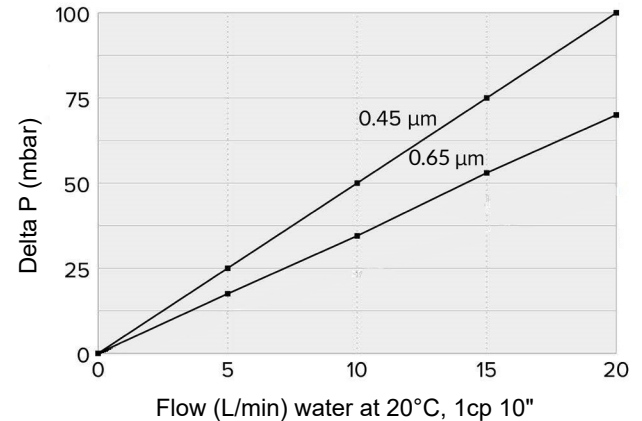
#### CHARACTERISTICS

- Proven retention of spoilage organisms
- Inert construction materials
- Integrity easily verifiable on site

#### ADVANTAGES

- ScottCart Membrane PES guarantee effective microbial stabilization of products (wine, beer, fruit juices, alcoholic beverages sparkling etc.)
- Preserve the desired characteristics of the product
- Guaranteed filtration performance
- Chemically resistant to a pH between 1 and 14
- Chemically regenerable.

#### 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:	Stainless Steel 316L
O-RING:	Silicone

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#### 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	BAR
20	5,0
40	4,0
60	3,0
80	2,0
90	1,0
> 100	0,3

#### EFFECTIVE FILTRATION AREA (EFA)

- Up to 0,6 m<sup>2</sup> for 10" (250 mm)

#### CLEANING AND STERILIZATION

ScottCart Membrane PES cartridges can be repeatedly steam sterilized in-situ or autoclaved at a maximum temperature of 90 °C and are compatible with a wide range of chemicals. Please refer to our Directions for Use document or contact Perdomini-IOC for more information.

#### RETENTION CHARACTERISTICS

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

MICRO-ORGANISM	LRV when challenge with a minimum of 10 <sup>7</sup> cfu per cm <sup>2</sup>	
	0,45	0,65
<i>Saccharomyces cerevisiae</i>	FT	FT
<i>Brettanomyces bruxellensis</i>	FT	FT
<i>Lactobacillus brevis</i>	FT	FT
<i>Acetobacter oeni</i>	FT	FT
<i>Serratia marcescens</i>	FT	FT

\*FR - Fully retentive during challenge  
When expressed as titre reduction "FR" equates to >10<sup>7</sup> per 10" module.

#### 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.

#### 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).

