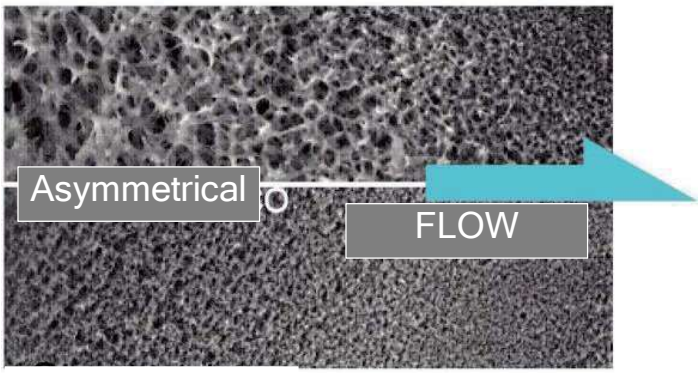
IOC-CART

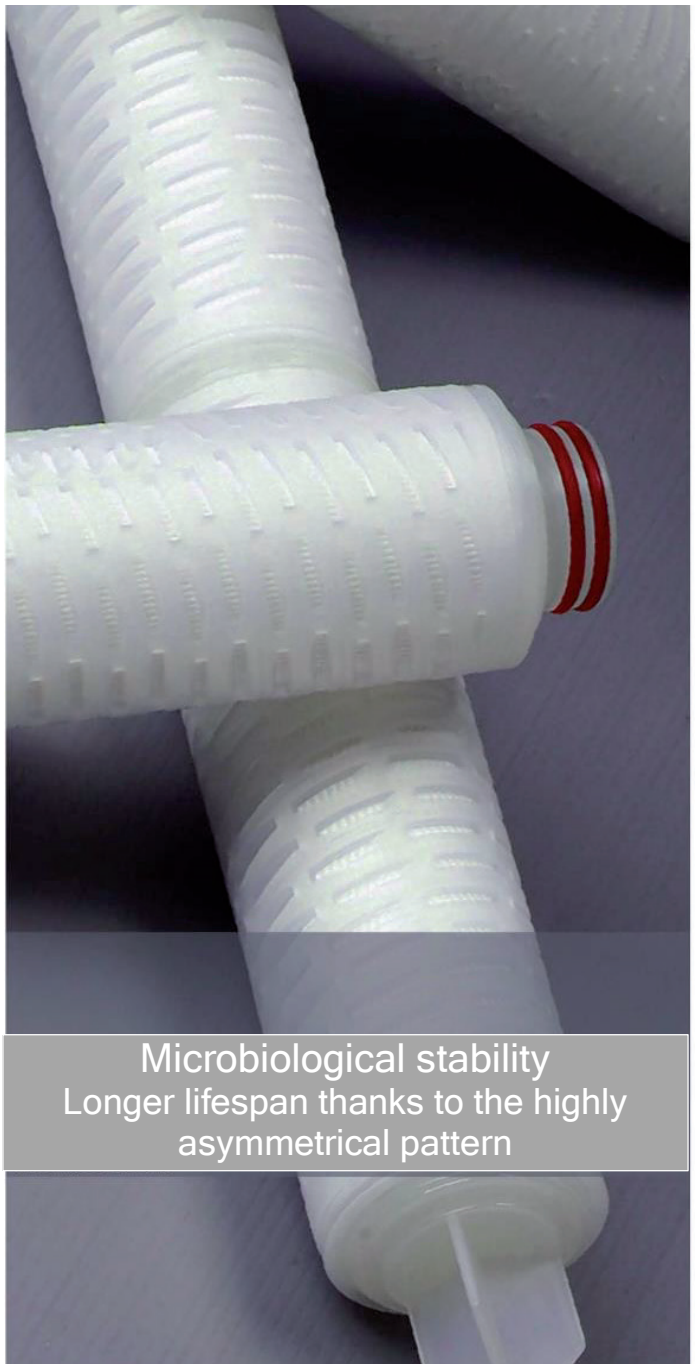
MEMBRANE PES 08

Increased lifespan thanks to the asymmetrical PES membrane • High degree of sterilisation

IOC-CART PES08 filter cartridges boast unique membranes in hydrophilic PES with an asymmetric pattern.
Their features include excellent flow capacity, exceptional ability to capture contaminants and a long lifespan.
Thanks to the significantly higher flow capacity than other filtration media for sterilisation, with IOC-CART PES08, filtration costs are noticeably reduced.



Symmetrical



Features and Advantages

- The highly asymmetrical PES membrane means that the cartridge keeps capturing large quantities of contaminants for a long time. Each filter cartridge undergoes an integrity test before shipping.
- Available in 0.8 µm pore size for effective removal of yeasts and particles.
- Conforms to standards for materials in contact with foodstuffs: FDA CFR Title 21 177-182 and Reg (EC) 1935/2004

TECHNICAL SPECIFICATIONS

MATERIALS

Filtration medium	Asymmetrical PES membrane
Cage/support	Polypropylene
Core/End cap	Polypropylene

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Révélons votre différence

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Operating conditions

Max. temperature	**80°C**	
Max. differential pressure	6,9 bar/25°C (parallel exchange) 2,4 bar/80°C (parallel exchange)	
Bubble point	**>0,6 bar**	
Diffusion flow	<20 ml/min at 480 mbar	
Steam sterilization	**≥ 100 cicli**	
(satured steam)	**121°C/30 min @ max. differential pressure**	**0,3**
Hot-water sterilisation	85°C/30 min @ max. differential pressure	2 bar
Cleaning solution	**Caustic solution**	
Effective filtration surface	0,58m^2 / 10 inches	

Reliable Microbiological Control

In the winemaking industry, the main purpose of a membrane filter cartridge is to provide effective protection against unwanted microorganisms.

Usual Log reduction value (LRV)			
Brevundimonas diminuta		*Lactobacillus brevis*	*Saccharomyces cerevisiae*
0,8 µm	**N/A**	**N/A**	**>7/cm^2**

The log reduction values have been calculated using the following formula: $LRV = \log_{10} \frac{\text{Total number of microorganisms entering the filter}}{\text{Total number of microorganisms leaving the filter}}$

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