

PSW Series

ASCOWINE FILTERING CARTRIDGES
PES MEMBRANE
DIAMETER 2.71" (69 mm)



MAIN APPLICATIONS:

- FOOD & BEVERAGE

CHARACTERISTICS:

- Polyethersulfone or Nylon 6.6 membrane
- Highly hydrophilic filter media
- Available in single or double membrane arrangement
- Ideal for haze and contaminating
- Designed for wine cold stabilization
- High flow-rate
- High filtration area
- High dirt holding capacity
- Filtration direction from out to in
- Available with five different end caps type
- Pure polypropylene hardware
- Polypropylene or borosilicate micro fibre support layers
- Resin or glue free construction
- Thermo-weld assembly
- FDA approved material
- Endotoxicity, extractible and oxidizing agent limits
In accordance with USP standard
- Manufactured in clean room
- Packing with antistatic materials
- Traceable lot number
- Integrity test carried out on 100% of production lots
- In line integrity testable
- Absolute filtration rating from 0.45 to 1.2 μm

ASCO FILTRI

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TECHNICAL DATA

MAX. WORKING TEMPERATURE
80 °C @ 4.1 bar

STERILIZATION/ SANITIZATION
- 125 °C for 30' in autoclave
without Delta-P
- 140 °C for 30' in line
with steam
Guaranteed 108 cycles
of 30' at 121 °C
- 90 °C with hot water

DIFFERENTIAL PRESSURE

Cartridge replacement:
2.0 bar @ 25 °C

Max. allowable:
Normal flux:
4.1 bar @ 25 °C

Reverse flux:
2.1 bar @ 25 °C

CONSTRUCTION MATERIALS

Filter media:

- Polyethersulfone membrane
- Nylon 6.6 membrane

Support layers:

- Polypropylene
- Borosilicate micro fibre

Hardware:

- Polypropylene

Gaskets:

- EPDM
- Silicone

DIMENSIONS

External diameter:
2.71" (69 mm)

Length:
10", 20", 30", 40"

FILTERING AREA

0.68 m² x 10"

Flow-rate / Delta-P data:

Filtration (µm)	Wine with IF < 10	
	PES	Nylon
0.45	1.50	1.20
0.65	1.70	1.50
0.80	1.80	1.60
1.20	1.90	1.70

Wine flow-rate (m³/h) - Initial Delta-P 0.1 bar

Degradation for 30" for 10' test:

(µm)	Test pressure	Diffusion
	[mbar]	[mbar]
0.45	900	200
0.65	700	200
0.80	600	200
1.20	600	200

Value valid for cartridges with PES membrane + borosilicate micro fibre..

$$\text{Degradation value (mbar)} = \frac{\text{diffusion (ml/min)} \times T_{\text{test}} \text{ (min)} \times P_{\text{atm}} \text{ (mbar)}}{\text{Dead volume (ml)}}$$

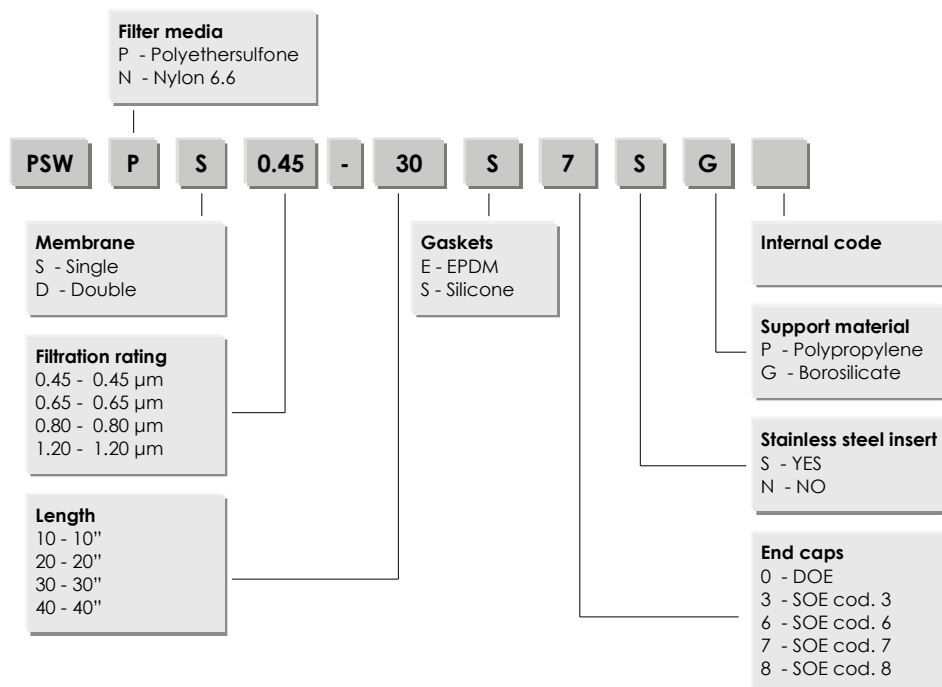
Bacteria challenge:

(µm)	Bacteria challenge	
0.45	> 10 ⁷ LRV/cm ²	Oenococcus oeni
0.65	> 10 ⁷ LRV/cm ²	Saccharomyces cerevisiae

Membrane support layers:

- G:** Borosilicate recommended for the reduction of high concentration of finely dispersed colloids
- P:** Polypropylene recommended for high temperature sanitization or concentrated highly aggressive chemicals sanitization

Ordering information:



We reserve the right to change the data of this specification without notice.

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