

HixFlow® PES

HixFlow® PES cartridges are filters with a Polyethersulfone membrane, specially developed for microbiological stabilization in the food and beverage industry. They are characterized by a larger filtering area that offers very high performance and flows, with low levels of extractables and superior quality microbiological safety.

Features

Ample chemical compatibility
Low extractables
High Flow rates
Testable integrity



Quality

Cartridges produced in a controlled environment
Manufactured according to the ISO9001 Quality Management
The filter complies with the norms and regulations of materials approved to be in contact with food.

Specifications

Materials

Membrane: Heterologous Polyethersulfone (PES)
Support and drainage: Polypropylene (PP)
O-rings: Silicone, EPDM or Viton
Sealing technology: Thermal bonding, without adhesives
Core & Housing: Polypropylene (PP)

Dimensions

Diameter: Ø 68mm
Length: 10", 20", 30"

Retention, µm

0.2, 0.45, 0.65

Filtering Area

10"	7.75 ft²	0.72 m²
20"	15.5 ft²	1.44 m²
30"	23.3 ft²	2.16 m²

Adapter

Double O-Ring 226 Lock (S7) & Double Open End (DOE)

Working Information

Max. Working Pressures and Temperatures

Δp 5.5bar @ 0-38°C
Δp 4.1bar @ 66°C
Δp 1.5bar @ 82°C

Integrity Test (at 23°C)

	Bubble Point	Difusive Flow
0.2µm	≥3200 mbar	≤30ml/min/10" @ 2.8 bar
0.45µm	≥2100 mbar	≤25ml/min/10" @ 1.7 bar
0.65µm	≥1200 mbar	≤15ml/min/10" @ 0.6 bar

Bacterial Endotoxins

0.25 EU/ml determined by LAL test.

Typical Flow Rate (per 10" of cartridge at 210 mbar)

0.2µm ≥ 20.7 L/min
0.45µm ≥ 28 L/min
0.65µm ≥ 35 L/min

Bacterial Retention

0.2µm > 10⁷ CFU/cm² *Brevundimonas diminuta*
0.45µm > 10⁷ CFU/cm² *Serratia marcescens*
0.65µm > 10⁷ CFU/cm² *Saccharomyces cerevisiae*

Sterilization

Autoclaving/SIP at max 134°C, 30 min, 1 bar, min. 25 cycles.

Ordering Information

Name	Filter Media	Type	Pore Size	Length	Adapter
HF	PE	A	06	30	S7
HF	PE	A	02	10	S7
			04	20	
			06	30	DOE
	PES	Absolute			