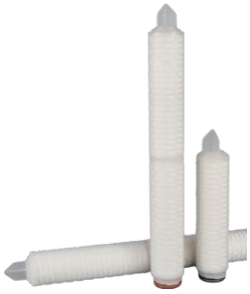
PES Membrane Filter Cartridge Datasheet (imperial units)

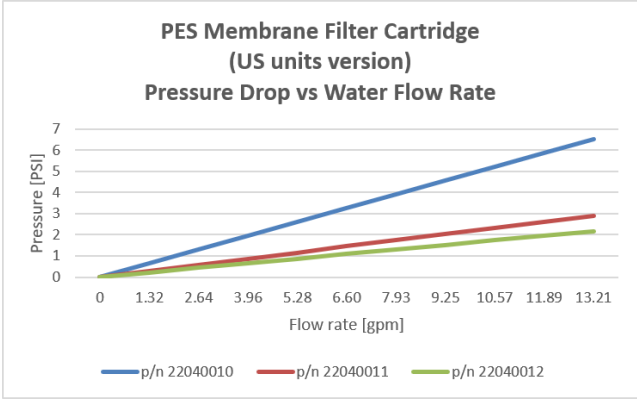
PES Membrane Filter Cartridge Series – 0.22µm / 0.45µm / 0.65µm

Each cartridge is 100% integrity tested. PES Membrane Filter Cartridge Series utilizes high bubble point, low diffusion flow, and strongly asymmetric PES membranes with a gradient pore structure. They offer large dirt-holding capacity, high flow rate, and long service life.

Specifications



Filter code	22040010 / 22040011 / 22040012
Filter media	High Bubble Point Asymmetric PES Membrane
Support/drainage/ End cap/cage/core	PP
Filter area	5.92ft^2 for 10"
Outer diameter	2.8 inches
Max. Operating temp	194°F
Bubble point value	0.22µm ≥ 49.31PSI @77°F water 0.45µm ≥ 36.26PSI @77°F water 0.65µm ≥ 18.86PSI @77°F water
Diffusion Flow	0.22µm ≤ 25ml/min / 10" @73.4°F water @ 39.45PSI 0.45µm ≤ 35ml/min / 10" @73.4°F water @ 26.11PSI 0.65µm ≤ 25ml/min / 10" @73.4°F water @13.05PSI
Max. Operating differential pressure	Forward 60.92PSI @77°F Reverse 30.46PSI @77°F



0.22µm LRV>7(B.Diminuta ATCC 19146)
0.45µm LRV>7(S.Marcecens ATCC 19146)
0.65µm LRV>7(S.Cerevisiae ATCC 19146)

Ordering Information

Part Number	Removal Rating	Length	End cap	O-Ring
22040010	0.22µm	30in	226Fin	Silicone
22040011	0.45µm	30in	226Fin	Silicone
22040012	0.65µm	30in	226Fin	Silicone

All materials comply with the FDA 21 CFR and EU No. 10/2011 requirements for food contact materials.

Updated 22 June, 2026

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PP Membrane Filter Cartridge Datasheet (imperial units)

PP Membrane Filter Cartridge Series – 1.0µm

PP Membrane Filter Cartridge Series combines high-efficiency polypropylene membranes with a continuously graded pore structure and multi-layer media. This advanced design enables high-precision particle retention while effectively preventing premature clogging in complex fluid processes.

The series is specifically engineered for the filtration of suspended particulates, colloids, and high-viscosity fluids.

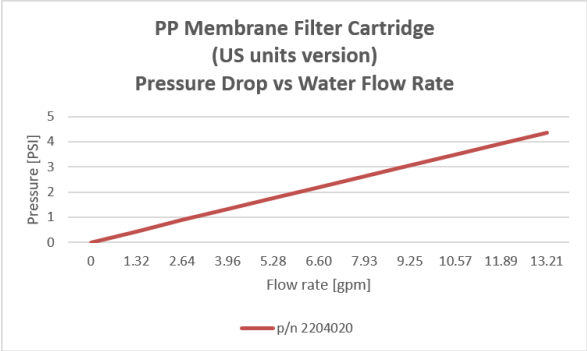
It is an ideal solution for handling gels, proteins, and complex organic suspensions, ensuring consistent filtrate quality while protecting downstream terminal filters.

Applications

Biopharmaceutical, food & beverage, microelectronics, and process water industries for particle removal, activated carbon removal, and prefiltration to ensure system protection and product purity.

Specifications

Filter code	2204020
Filter media	Multilayer high efficiency advance Polypropylene
Support/drainage End cap/cage/core	PP continuous filament PP
Filter area	4.84ft^2 for 10"
Max. Operating temp	176°F
Max. Operating differential pressure	Forward 60.92PSI @77°F Reverse 30.46PSI @77°F



2204020 is a pleated membrane-style filter. It combines Absolute Rating (1µm) precision with a multi-layer structure for a large dirt-holding capacity.

Ordering Information

Part Number	Removal Rating	Length	End cap	O-Ring
2204020	1.0µm	30in	226Fin	Silicone

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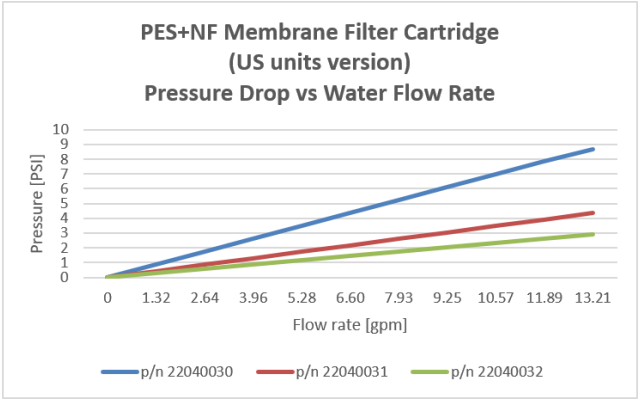
PES+NF Membrane Filter Cartridge Datasheet (imperial units)

PES+NF Membrane Filter Cartridge Series – 0.22µm / 0.45µm / 0.65µm

PES+NF Membrane Filter Cartridge Series feature high bubble point, low diffusion flow, and strongly asymmetric PES membranes with a gradient pore structure. They provide high throughput, extended service life, and excellent particle retention. Each cartridge is 100% integrity tested.

Specifications

Filter code	22040030 / 22040031 / 22040032
Filter media	High Bubble Point Asymmetric Polyetherosulphone + Nanofiber (Prefilter)
Support/drainage/ End cap/cage/core	PP
Filter area	6.67ft^2 for 10"
Outer diameter	2.8 inches
Max. Operating temp	194°F
Bubble point value	0.22µm ≥ 49.31PSI @77°F water 0.45µm ≥ 36.26PSI @77°F water 0.65µm ≥ 18.86PSI @77°F water
Diffusion Flow	0.22µm ≤ 25ml/min / 10" @73.4°F water @ 39.45PSI 0.45µm ≤ 35ml/min / 10" @73.4°F water @ 26.11PSI 0.65µm ≤ 25ml/min / 10" @73.4°F water @13.05PSI
Max. Operating differential pressure	Forward 60.92PSI @77°F Reverse 30.46PSI @77°F



0.22µm LRV>7(B.Diminuta ATCC 19146)
0.45µm LRV>7(S.Marcecens ATCC 19146)
0.65µm LRV>7(S.Cerevisiae ATCC 19146)

Ordering Information

Part Number	Removal Rating	Length	End cap	O-Ring
22040030	0.22µm	30in	226Fin	Silicone
22040031	0.45µm	30in	226Fin	Silicone
22040032	0.65µm	30in	226Fin	Silicone

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Nylon Membrane Filter Cartridge Datasheet (imperial units)

Nylon Membrane Filter Cartridge Series – 0.22µm / 0.45µm / 0.65µm

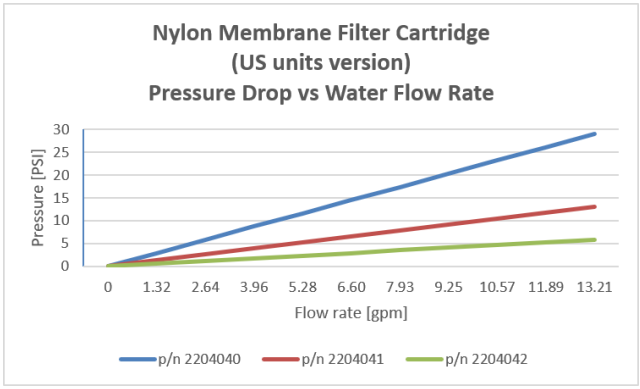
Nylon Membrane Filter Cartridge Series are manufactured using advanced thermal welding technology and utilize nylon microporous membranes as the filtration medium. Each cartridge is 100% integrity tested before shipment.

Applications

Pharmaceutical, food and beverage, electronics, chemical processing, and water treatment industries.

Specifications

Filter code	22040040 / 22040041 / 22040042
Filter media	Nylon
Support/drainage/End cap/cage/core	PP
Filter area	7.32ft^2 for 10"
Max. Operating temp	194°F
Diffusion Flow	0.22µm ≤ 30ml/min / 10" @73.4°F water @ 36.26PSI 0.45µm ≤ 30ml/min / 10" @73.4°F water @ 23.21PSI 0.65µm ≤ 30ml/min / 10" @73.4°F water @ 13.05PSI
Max. Operating differential pressure	Forward 60.92PSI @77°F Reverse 30.46PSI @77°F



0.22µm LRV>7(B.Diminuta ATCC 19146)
0.45µm LRV>7(S.Marcecens ATCC 19146)
0.65µm LRV>7(S.Cerevisiae ATCC 19146)

Ordering Information

Part Number	Removal Rating	Length Endcap	End cap	O-ring	Core/Cage
22040040	0.22µm	30in	226Fin	Silicone	PP Hardware
22040041	0.45µm	30in	226Fin	Silicone	PP Hardware
22040042	0.65µm	30in	226Fin	Silicone	PP Hardware

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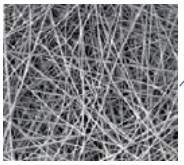
NBP Membrane Filter Cartridge Datasheet (imperial units)

NBP Membrane Filter Cartridge Series – 1.0µm

NBP Membrane Filter Cartridge Series is a NBP hydrophilic nanofiber PVDF filter cartridge which optimizes the prefiltration in cold-filtered beer, precision filtration of beer or clarifying filtration of wine. The removal ratings of the nanofiber membrane filter are set according to the size of microorganisms and colloids The depth and gradient filtration of NBP makes it ideal for clarifying filtration of beer and wine. The gradient filter also possesses long service life and high flow rate. Compared with conventional membrane filters, NBP is more cost-saving and brings the customer more benefits.

Features

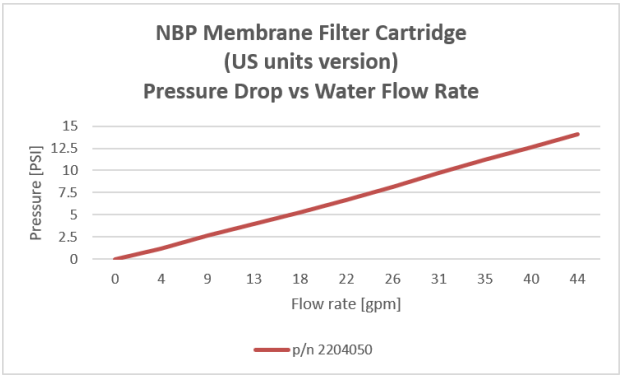
- True nanosized-fiber filter media with outstanding porosity
- Absolute removal ratings, 99.9% retention efficiency, and bubble-point testing available
- Multi-layer and gradient filtration design, optimized microorganism and colloid retention
- High flow rate and high pollutant holding capacity
- Washable, long service life
- Broad chemical compatibility



Scanning electron micrograph (25000 mag)

Specifications

Filter code	22040050
Filter media	Multilayer PP & Nanofiber PVDF
Support/drainage/End cap/cage/core	PP
Filter area	5.60ft^2 for 10"
Max. Operating temp.	<176° F
Max. Operating differential pressure	Forward 60.92PSI @77°F Reverse 30.46PSI @77°F
Compatible pH	1.0-14.0



Ordering Information

Part Number	Removal Rating	Length	End cap	O-ring
22040050	1.0µm	30in	226Fin	Silicone

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