

ESPOR BW sterilizing grade filter features a microbially retentive polyehtersulphone membrane for fast, reliable and cost-effective sterile filtration for beverage industry.

Specially designed as a beverage grade cartridge, ESPOR BW utilizes an advanced highly asymmetric PES membrane which provides graded filtration throughout its unique pore morphology, resulting in high flow rates, long life, improved throughput and cost-effective performance.

ESPOR BW all-polypropylene construction provides very low level of extractable, maximized mechanical strength and chemical compatibility enabling the filter to withstand repeated chemical cleaning and sterilization.

Features and Benefits

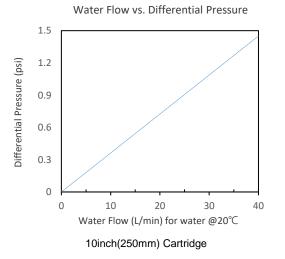
Applications

- · Validated bacterial retention
- · Extended service life
- · High flow rate
- · Low pressure drop
- · high contaminant loading capacity
- · Repeatedly integrity testable
- Cost-effective
- All polypropylene construction
- Very low extraction
- · Excellent chemical compatibility



- Food & Beverages
- Microbial stabilization

Performance Characteristics



ESPOR BW PES Filter Cartridges

Liquid Filters

• Polyethersulfone Membrane



ESPOR BW Filter Cartridges

Specifications

Materials of Construction

Polyethersulfone

Polypropylene

Polypropylene

Polypropylene

Polypropylene

Polypropylene

Silicone

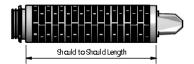
316L Stainless Steel

- Main Media :
- Upstream Support:
- Downstream Support:
- Inner Core:
- Outer Cage:
- End Caps:
- End Cap Insert*:
- * Available in 226 endcap
- Standard o-rings:

Nominal Dimensions

Outside Diameter : 71.5mm
Inner Diameter : DOE(27.0mm), SOE(31.0mm)
S-S Length of 10" Cartridge : 237.5mm
S-S Length of 20" Cartridge: 485.0mm
S-S Length of 30" Cartridge: 732.5mm
S-S Length of 40" Cartridge : 980.0mm

* S-S Length



Recommended Operation Conditions

Up to 70 °C continuous operating temperature and higher short-term temperature during CIP to the following limits : 5.0 bard (72.5psid) @ 20 °C 4.0 bard (58.0psid) @ 40 °C 3.0 bard (43.5psid) @ 60 °C 2.0 bard (29.0psid) @ 80 °C 1.0 bard (14.5psid) @ 90 °C 0.3 bard (4.0psid) @ >100 °C (steam)

Recommended Change out Pressure

2.4 bard (35psid)

Effective Filtration Area

0.74sqm / 10" cartridge

Cleaning and Sterilization

ESPOR BW can be repeately steam sterilized in situ or autoclaved at up to 130 \degree (226°F). They can be sanitized with hot water at up to 85 \degree (185°F) and are compatible with a wide range of chemicals.

Food Contact Compliance

All materials of construction are FDA listed and conform to the relevant requirements of 21 CFR Part 177.

Filtration Rating

 0.2μ m

Bacterial Retention

> 10⁷ cfu/cm² Brevundimonas diminuta Carried out to methods specified in ASTM F838-05

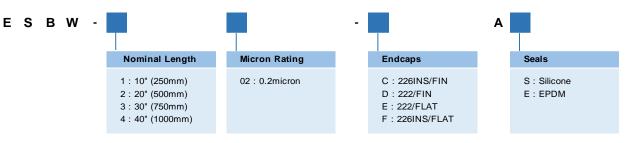
Integrity Test Data

All filters are flushed with pharmaceutical grade purified water and integrity tested to the following limits. < 42cc/min at 2.2bar

Cleanliness

TOC (USP 643) : <500ppb Conductivity (USP 645) : <1.3uS/cm Endotoxin (USP85) : <0.25EU/ml

Ordering Information





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