Sartopore® 2 HF 0.2 µm
Sterilizing Grade Filter Cartridges

Product Information

- Highest flowrates due to increased effective filtration area
- Ideal solution for filtration of water-based pharmaceutical formulations
- Broadest chemical compatibility & highest thermal resistance

Maximum flowrate performance
Due to its enlarged effective filtration area, the single layer hydrophilic polyethersulfone membrane gives Sartopore® 2 HF higher flowrate performance in the target applications than any other sterilizing grade filtration cartridge. Thus ensuring shortest filtration cycle times and minimized total costs.

Broadest compatibility and excellent wettability
In addition to its outstanding performance, the single layer polyethersulfone membrane gives Sartopore® 2 HF broad chemical compatibility, including a pH-range from pH 1 to pH 14, and a high thermal resistance. Sartopore® 2 HF cartridges can be easily wetted for integrity testing even after drying at 80°C for 12 hours.

Highest safety and reliability
Sartopore® 2 HF filter cartridges 0.2 µm rated are fully validated as sterilizing grade filters according to current ASTM F-838 guidelines. Each individual element is tested for integrity by Bubble Point and Diffusion test prior to be released assuring absolute reliability.

Applications
- Buffers
- Large volume parenterals
- WFI
- Cleaning and sanitizing agents
- Bulk pharmaceutical products
- Any application that requires exceptional flow rates
Technical Data

### Available Sizes

| Cartridges | Filtration Area | Max. Diffusion at 2.5 bar | 36 psi [ml/min] | Min. Bubble Point [bar | psi] |
|------------|-----------------|---------------------------|----------------|----------------------|
| Size 1     | 0.7 m² | 7.5 ft² | 21 | 3.2 | 46 |
| Size 2     | 1.4 m² | 15.1 ft² | 42 | 3.2 | 46 |
| Size 3     | 2.1 m² | 22.6 ft² | 63 | 3.2 | 46 |

### Max. Allowable Differential Pressure

**Cartridges**
- 5 bar | 72.5 psi at 20°C
- 2 bar | 29 psi at 80°C

### Max. Allowable Back Pressure

2 bar | 29 psi at 20°C (for all elements)

### Materials

- **Prefilter Membrane**
  Polyethersulfone, asymmetric

- **Endfilter Membrane**
  Polyethersulfone, asymmetric

- **Support Fleece**
  Polypropylene

- **Core**
  Polypropylene

- **End Caps**
  Polypropylene

- **Outer Support**
  Polypropylene

- **O-Ring**
  Silicone
  (other materials on request)

### Pore Size Combination

0.2 μm
**Regulatory Compliance**

- Each individual element is tested for integrity by Bubble Point and Diffusion test
- Fully validated as sterilizing grade filters according to ASTM current F-838 guidelines
- Designed, developed and manufactured in accordance with an ISO 9001 certified Quality Management System
- Meet or exceed the requirements for WFI quality standards set by the current USP
- Non pyrogenic according to USP Bacterial Endotoxins
- USP Plastic Class VI Test
- Non fiber releasing according to 21 CFR

**Sterilization**

**Cartridges**

In-Line Steam Sterilization

134 °C, 0.3 bar, 20 min.
Min. 25 Sterilization Cycles

or

Autoclaving

134°C, 2 bar, 30 min
Min. 25 Sterilization Cycles

**Performance**

**Flow Rate Comparison**

![Graph showing flow rate comparison](image)

30" Filter cartridges at 1 bar | 14.5 psi differential pressure (20°C)

**Water Flow Rates for Standard Cartridges**

![Graph showing water flow rates](image)

Standardized at 20°C

**Technical References**

- Validation Guide: SPK5741-e
- Extractables Guide: SPK5742-e
Ordering Information

Cartridge

| 544 | 25 | 07 | A | 1 | ----HF |
---|---|---|---|---|---|
Adapter
25: 2 Flange Bayonet adapter with 226 double o-ring

Filter Size
1: 0.7 m² | 7.5 ft² (10")
2: 1.4 m² | 15.1 ft² (20")
3: 2.1 m² | 22.6 ft² (30")

(Standard with silicone o-ring optional with EPDM o-ring. Example: 5442507A1----EHF)