

Supor™ EAV

FILTERS IN MINI KLEENPAK™ 20 CAPSULES

Supor™ EAV filters incorporate a hydrophilic and asymmetric polyethersulfone (PES) membrane to combine superior dirt load capacity for even the finest particles with a broad pH compatibility. They offer extended service life, as well as very short processing times in the case of high-volume buffers, cell culture media, and supernatants.

In biotechnology, blood product, vaccine, and buffer applications, these membrane benefits mean higher yield, higher process safety, less total filtration time, less filters to change and less cost.

The Mini Kleenpak™ 20 capsule format is suited to both the filtration of low volumes of fluids (50 mL to 2 L) in the laboratory for filterability purposes, or in a GMP production environment where a certified product is essential.

The benefits of Supor EAV filters in Mini Kleenpak 20 capsules membrane include:

- Hydrophilic, controlled asymmetric PES membrane for high microbial and particulate reduction with outstanding service life.
- Bacterial titer reduction in excess of 1×10^6 for *Brevundimonas diminuta*, ensuring low bioburden levels in filtrate regardless of bacterial loading.
- Broad pH compatibility for processing a wide range of buffers and other fluids.
- Mini Kleenpak 20 capsule format, which eliminates housing cleaning and associated validation for ease of use and integration into single-use systems.
- Low binding PES membrane for maximum transmission of proteins.



Fig 1. Supor EAV membrane in Mini Kleenpak 20 capsules.

Quality standards

- 100% integrity tested.
- Manufactured for use in conformance with cGMP.
- Each filter is fully traceable by individual marked lot and serial number.
- ISO9001 certified quality system.
- Meets United States pharmacopeia (USP) biological reactivity test, *in vivo*, for class VI-121°C plastics.
- Certificate of test provided includes:
 - fabrication integrity.
 - materials of constructions.
 - effluent quality for cleanliness, total organic carbon (TOC) and water conductivity, pH and pyrogens.

Specifications

Typical flow rates

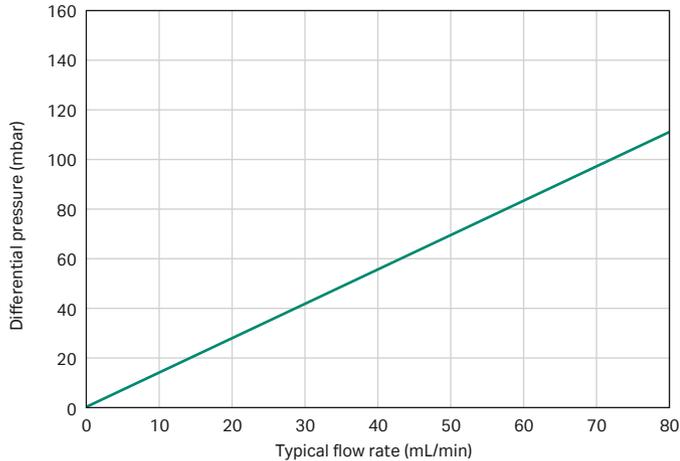


Fig 2. Typical liquid flow rate vs differential pressure in water at 20°C.

Operating parameters ¹

Maximum operating pressure	4.1 bar (60 psi) at 20°C
Minimum operating pressure	1.0 bar (15 psi) at 60°C

¹ In compatible fluids which do not soften, swell or adversely affect the filter or its materials of construction.

Materials of construction

Filter membrane	Hydrophilic PES
Housing, vent plug and support material	Polypropylene (PP)
Filling bell	Polycarbonate
Sealing technology	Thermal bonding

Typical hold-up volume

< 2.5 mL

Sterilization

This product is supplied pre-sterilized by gamma irradiation.

Autoclave	1 cycle at 125°C
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Warning: pre-sterilized Mini Kleenpak 20 filters should not be re-irradiated. This product may not be sterilized by *in-situ* steaming.

Dimensions (nominal)

Capsule length	83 mm
Capsule diameter	67 mm

Effective filtration area (EFA)

20 cm²

Ordering information

Description	Product code
Supor EAV filter in Mini Kleenpak 20 capsules, 6 to 13 mm stepped hose barb connections, pre-sterilized.	KM5EAVP2S

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