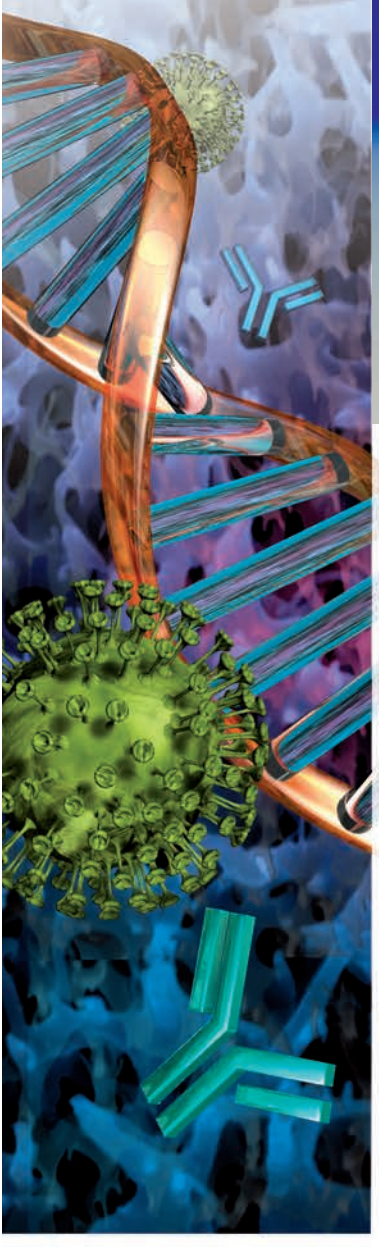
PALL Life Sciences

USD 2635

# Mini Kleenpak™ capsules with Supor® EAV membrane



## *Advanced Filtration Technology for Bioburden Control*

### Supor Grade EAV Membrane Filtration Technology

Pall Mini Kleenpak capsules with Supor EAV membrane are high capacity, high flow rate filters ideally suitable for filter-sizing studies or the processing of small volumes of pharmaceutical GMP process streams.

### Applications

- Bioburden control of chromatography and ultrafiltration buffers
- Prefiltration and/or bioburden control of biological or protein solutions
- Bioburden reduction prior to sterilizing filtration on aseptic filling lines

### Benefit from using Mini Kleenpak capsules with Supor EAV membrane in your process

- **Superior value** – An asymmetric, high capacity Mach*V* polyethersulfone (PES) membrane ensures maximum flow and throughput performance for smaller, more cost-effective filtration systems.
- **Economical scale-up** – For large production volumes, scale up from Mini Kleenpak capsules to high-area AB-style cartridges and Kleenpak Nova capsule filters. These formats feature a unique, Pall-patented Ultipleat® cartridge pleating construction coupled with a narrow core design for the highest flow rates and rapid fluid processing when effective time and cost control is paramount.
- **Safety** – Validated for the retention of *Brevundimonas diminuta* (ATCC♦ 19146) with a typical titer reduction of $10^6$ $T_R$ (6 LRV), they assure safety in applications where an absolute sterility claim is not essential.

*Filtration. Separation. Solution.*SM

## Specifications

### Materials of Construction

| | |
|---|---|
| Filter Membrane | Hydrophilic asymmetric PES |
| Support/Drainage | Polypropylene non-woven |
| Capsule Shell | Polypropylene |
| Core and Endcaps | Polypropylene |
| Filling Bell | Polycarbonate |
| Sealing Technology | Thermal bonding without adhesives |

### Operating Parameters[1]

| | |
|---|---|
| Maximum Operating Temperature | 40 °C |
| Maximum Operating Pressure | 4.1 bar (60 psi) at 38 °C |

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

### Sterilization[2]

| | |
|---|---|
| Autoclave 'G' option | 3 x 30 minutes at 135 °C |
| Gamma Irradiation 'G' option | Maximum of 50 kGy |

[2] *• Pre-sterilized Mini Kleenpak capsules must not be re-sterilized.*
*• Mini Kleenpak capsules must not be sterilized in-situ by passing steam under pressure*

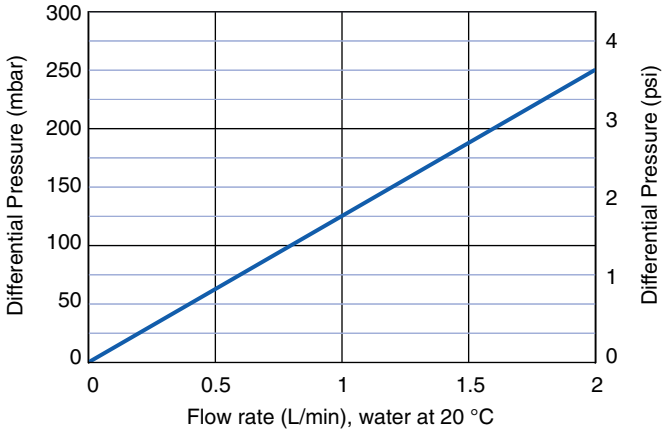
### Typical Extractables in Water at 20 °C

< 2 mg per filter capsule

### Nominal Dimensions

| | |
|---|---|
| Maximum Diameter Including Valves | 53 mm (2.1 in.) |
| Length - Code 2 | 105 mm (4.1 in.) |
| Length - Code 8 | 73 mm (2.9 in.) |

### Typical Liquid Flow vs. Differential Pressure




For liquids other than water, multiply differential pressure by fluid viscosity (cP).

### Nominal Effective Filter Area (EFA)

260 $cm^2$ (0.28 $ft^2$)

### Removal Rating[3]

0.2 µm Nominal

[3] *Validated filter reduction of B. diminuta at $10^8$ $T_R$ (6 LRV), correlated to an integrity test value. Please contact Pall for further information.*

## Ordering Information[4]

**Pall Part Number: KA02EAVP** ☐ ☐

| Code | Connection Options |
|---|---|
| 2 | ¼ – ½ in. (6 – 13 mm) stepped hosebarb |
| 8 | ½ – ¾ in. (13 – 19 mm) sanitary flange |

| Code | Shipping Format |
|---|---|
| G | Non-sterile gamma irradiatable/ autoclavable |
| S[5] | Pre-sterilized using gamma irradiation |

[4] *3 filters per box*
[5] *'S' option with Code 2 connection is provided with filling bell on outlet. It is removable for in-line use*


PALL Life Sciences

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