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Technical Application Brief

Compatibility of Oxidative Sanitizers with PES

Polyethersulfone (PES), the media used in BevReady Pure, is susceptible to degradation when in contact with oxidizers. Because of this, hydrogen peroxide and peroxyacetic acid (PAA) can both pose challenges if they are used to clean and disinfect PES, and they must be handled with care. There is an increased risk with higher temperatures, higher concentrations and repeated/dynamic exposure, and the risk becomes higher when the chemicals are used in combination. This risk is true of all PES membranes.



Recommendations

For maximum filter life, we do not recommend using sanitizers that combine both peroxyacetic acid and hydrogen peroxide when cleaning and disinfecting the BevReady Pure membranes (0.45 or 0.2µm grades). The combination of strong oxidizers and potential long-term storage times (24-48+ hours) create conditions that can lead to shorter filter life.

We do recommend the use of PAA, when used alone, for:

- CIP in low concentrations, 100-200 ppm at ambient temperature
- Short-term storage, at concentrations of 500-2000 ppm

Other short-term storage options include:

- Citric acid (pH 3.5) and sulfur (potassium metabisulfite) at 1000-2000 ppm
- Nitrogen blanket of 1-1.5 bar (monitor gauges)

Once removed from storage, we recommend visual inspection and re-sanitization if filters have been stored for a long period (36-48+ hours)

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