Porous PTFE Cleaning Guidance

Porous PTFE is chemically inert and highly hydrophobic due to its low surface energy, but its pore structure requires controlled cleaning to maintain function.

- Recommended methods:
  - Use high-purity solvents such as Isopropyl Alcohol (IPA) or acetone, followed by a deionised (DI) water rinse to remove residues.
  - Sterilisation by steam autoclave (121–134 °C) or Ethylene Oxide (EtO) is compatible and does not impact pore integrity or hydrophobicity.
- Avoid:
  - Surfactant detergents, strong oxidisers, or silicone-based cleaners, as they can alter surface properties, promote pore wetting, or leave residues that obstruct airflow.

Key point: Correct cleaning maintains airflow performance and water entry pressure (WEP), while improper methods risk pore blockage, reduced hydrophobic barrier function, or contamination.

For further guidance, please contact: technical-service@cglifesciences.com