

Pall Laboratory Membrane Filters

Technical Specifications & Material Selection Guide

Product Overview

Pall laboratory membrane filters are high-performance disc and cartridge media engineered for precision sample clarification, sterilization, mobile phase preparation, and microbiological analysis. Utilizing highly controlled manufacturing processes, these membranes guarantee consistent pore structures, low extractables, and exceptional lot-to-lot reproducibility.

Membrane Material Performance Comparison

Specification	GN-6 Metrical (MCE)	Nylaflo (Nylon)	Supor (PES)	PTFE
Primary Application	Microbiology, Water Testing	HPLC Prep, Solvents	Biologicals, Pharma	Aggressive Chemicals, Gases
Fluid Interaction	Hydrophilic	Hydrophilic	Hydrophilic	Hydrophobic
Pore Sizes (µm)	0.45	0.2, 0.45	0.2, 0.45	0.2, 0.45
Max Temp (Water)	74 °C	100 °C	85 °C	135 °C
Protein Binding	High	High	Very Low	Low
Autoclavable	Yes (121–123 °C)	Yes (121 °C)	Yes (121 °C)	Yes (121 °C)

Detailed Performance Profiles

1. GN-6 Metrical Membranes (Mixed Cellulose Ester)

- Engineered explicitly for membrane filtration isolation techniques in microbial enumeration.
- Certified to meet strict regulatory parameters for water quality analysis, including EPA and ASTM standards.
- Features a crisp gridline pattern for optimal colony contrast and minimal fatigue during quantification.

2. Nylaflo Membranes (Nylon)

- Highly versatile membrane with excellent chemical resilience to bases, esters, and alcohols.

- Inherently hydrophilic properties eliminate the need for pre-wetting agents, minimizing fluid contamination.

3. Supor Membranes (Polyethersulfone)

- Low protein binding metrics maximize target analyte recovery in premium biopharmaceutical applications.
- Exceptional flow velocity characteristics shorten process filtration run times significantly.