Hall Pyke

Membrane Filtration

Fluorofil™ F100

The SMART choice for filtration

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PTFE Membrane Cartridges for Solvent Filtration

Fluorofil™ F100 cartridges are manufactured using a highly hydrophobic 1 micron PTFE membrane. The enhanced PTFE membrane offers exceptionally high liquid flow rates at low pressure differentials (see graph) making Fluorofil™ F100 cartridges ideally suited to solvent filtration.

Features and Benefits

- Guaranteed particle retention in a liquid challenge
  Fluorofil™ F100 cartridges are validated for particle removal in liquids by using the industry standard modified OSU F-2 single pass challenge test. The retention rating is correlated to the bubble point. Each module is individually tested to ensure it reaches the required bubble point value.
- Flow ΔP characteristics
  The unique characteristics of the PTFE membrane, combined with the construction of the Fluorofil™ F100 filter cartridge, results in exceptionally high liquid flow rates at low pressure differentials.
- Cartridge integrity and low TOC levels
  All Fluorofil™ F100 cartridges are integrity tested and supplied clean, having been flushed with pure water. When required they can be pulse flushed with 18MΩ.cm pyrogen-free ultra-clean water.
- Solvents and aggressive chemicals
  The exceptional chemical resistance of PTFE allows Fluorofil™ F100 filter cartridges to be compatible with aggressive chemical solutions, including strong acids, alkalis, solvents and etchants.

Materials of Manufacture

Filter membrane:	PTFE	Inner core:	Polypropylene
Membrane support:	Polypropylene	Outer support:	Polypropylene
Irrigation mesh (support):	Polypropylene	End fittings:	Polypropylene
Drainage layer:	Polypropylene	Sealing:	Fusion bonding

Gaskets and O-Rings

PTFE encapsulated, Viton, Ethylene Propylene, Nitrile or Silicone.

Maximum Differential Pressure (in water)

Normal flow direction at:
20°C (68°F): 6.0bar (87lb/in2)
80°C (176°F): 4.0bar (58lb/in2)
100°C (212°F): 3.0bar (43lb/in2)

Operating Temperature

Maximum continuous: 80°C (176°F)

Effective Filtration Area

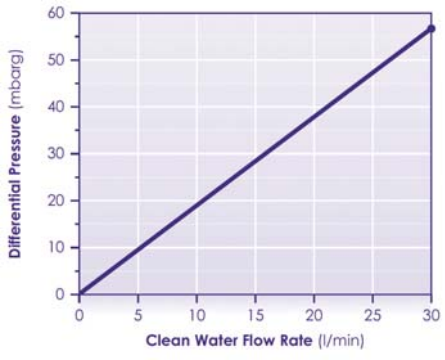
Absolute Micron Rating (in water)	Effective Filtration Area (each 254mm (10") module)
1.0µm (β5000, 99.98%)	0.68m2 (7.3ft2)

Applications

- Carbon fines removal
  For the removal of carbon fines typically used in Pharmaceutical intermediates.
- Fine chemicals and solvents
  The removal of particles from processing chemicals and solvents, such as MEK, Ethyl Acetate, Pyridine, Tetrahydrofuran (THF).
- Photoresists and developers
  The microfiltration of photoresists and developer solvents, susceptible to contamination and precipitation during manufacture, storage and processing.

Flow Characteristics

Clean Water Flow Rates



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www.hallpyke.ie

Head Office, 3A Sunbury Industrial Estate, Ballymount Road, Walkinstown, Dublin 12.
T. +353-1-4501411 **F.** +353-1-4507960 **E.** info@hallpyke.ie **W.** www.hallpyke.ie