

Hall Pyke



Membrane Filtration

Chemifil™

The SMART choice for filtration

Chemifil™

Polypropylene Membrane Cartridge Filters

Chemifil™ cartridges are manufactured using a polypropylene membrane of uniform thickness and high voids volume, with a homogeneous structure and controlled pore sizes. Designed for the removal of sub-micron organic and inorganic particulate matter, the inherent structural stability of the membrane eliminates any risk of media migration and minimises the release of particles.

Features and Benefits

- **Chemifil™ cartridges**
The all polypropylene cartridge construction makes it an ideal choice for the filtration of aggressive chemicals.
- **Guaranteed microbial ratings**
Chemifil™ cartridges are validated for bacterial removal according to HIMA guidelines and ASTM F838-05, with a log reduction value >7.
- **Flow ΔP characteristics**
Chemifil™ filter cartridges provide high flow rates at low pressure differentials. These features result in lower energy consumption and fewer filter cartridges per system.
- **Steam sterilisation**
- **Solvents and aggressive chemicals**
The exceptional chemical resistance of polypropylene allows Chemifil™ filter cartridges to be compatible with aggressive chemical solutions, including strong acids, alkalis, solvents and etchants.
- **Full traceability**
- **Controlled manufacturing environment**

Materials of Manufacture

Filter membrane:	Polypropylene	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

Ethylene Propylene, PTFE encapsulated, Silicone or Nitrile.

Maximum Differential Pressure

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)
 120°C (248°F): 2.0bar (29lb/in2)
 125°C (257°F): 1.5bar (22lb/in2)

Effective Filtration Area

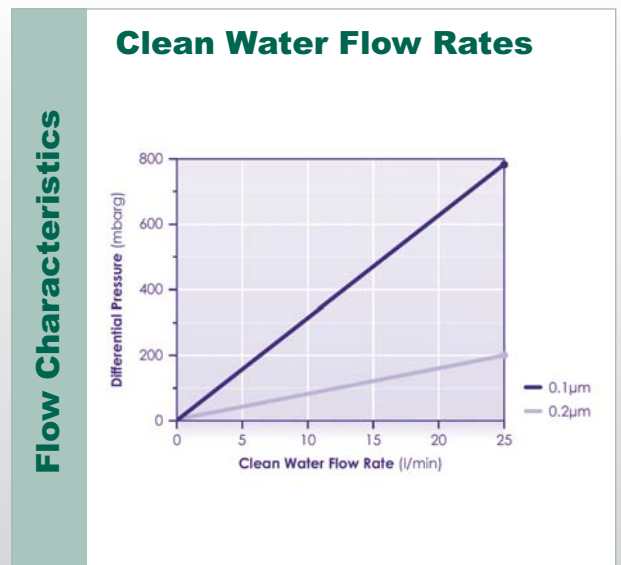
Absolute Microbial Rating	Effective Filtration Area (each 254mm (10") module)
0.1 and 0.2µm	0.66m2 (7.1ft2)



Applications

Chemifil™ polypropylene membrane cartridges meet the demanding filtration requirements of pharmaceutical, semiconductor and fine chemical manufacturers. They can be used for the fine filtration of aggressive chemical solutions including acids, alkalis, solvents and etchants. They are also suitable for a wide range of sterile venting and gas filtration applications, including the filtration of wet gases.

- Fine chemicals and solvents
- Photoresists and developers
The microfiltration of photoresists and developer solvents, susceptible to contamination and precipitation during manufacture, storage and processing.
- Pure water supply systems
- Sterile process gases
- Sterile vents



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