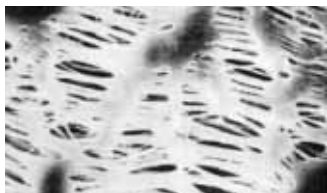
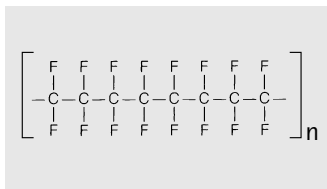


Hydrophobic PTFE Membrane Filters, Type 118, for the Filtration of Air, Gases or Chemicals



The main application of this membrane filter types is the air | gas filtration. They are made purely of PTFE (polytetra-fluorethylene), and are therefore permanently hydrophobic. Unlike other (hydrophilic) filter types, they are not wetted by air humidity, allowing unhindered passage of air also at low differential pressures.

PTFE membrane filters have an excellent chemical compatibility, so that they are also used for the filtration of solvents and acids, to which other filter types are not resistant. Due to their hydrophobic characteristics, they must be pre-wetted with ethanol or methanol before the filtration of aqueous media.



Typical performance for PTFE membrane filters

Adsorption	8 µg/cm ² for gamma-globulin (0.2 µm pore size)
Bubble point acc. DIN 58355	Minimum value for Isopropanol 0.2 µm = 1.0 bar (100 kPa, 15 psi), for 0.45 µm = 0.7 bar (70 kPa, ~10 psi). Average value for 1.2 µm = 0.45 bar (45 kPa, 6.52 psi), for 5 µm = 0.1 bar (10 kPa, 1.45 psi)
Chemical compatibility	Resistant to almost all chemicals
Extractables with water	None detectable
Flow rate for air	Average values per cm ² area at Δp = 0.05 bar (5 kPa, 0.725 psi): 0.2 l/min for 0.2 µm, 0.3 l/min for 0.45 µm, 1.6 l/min for 1.2 µm and 4 l/min for 5 µm pore size
Material	Polytetrafluorethylene
Sterilization	By autoclaving at 121°C or 134°C or with ethylene oxide.
Sterilizing filtration	Filters with 0.2 µm pore size are validated with the Bacteria Challenge Test.
Thickness acc. DIN 53105	Average values, 65 µm for 0.2 µm and 100 µm for 5 µm pore size.

Order numbers for PTFE membrane filters, type 118

13 mm diameter	11803-013 N	1.2 µm, pack of 100
	11806-013 N	0.45 µm, pack of 100
	11807-013 N	0.2 µm, pack of 100
25 mm diameter	11842-025 N	5 µm, pack of 100
	11803-025 N	1.2 µm, pack of 100
	11806-025 N	0.45 µm, pack of 100
	11807-025 N	0.2 µm, pack of 100
47 mm diameter	11842-047 N	5 µm, pack of 100
	11803-047 N	1.2 µm, pack of 100
	11806-047 N	0.45 µm, pack of 100
	11807-047 N	0.2 µm, pack of 100
50 mm diameter	11842-050 N	5 µm, pack of 100
	11803-050 N	1.2 µm, pack of 100
	11806-050 N	0.45 µm, pack of 100
	11807-050 N	0.2 µm, pack of 100
100 mm diameter	11842-100 G	5 µm, pack of 25
	11803-100 G	1.2 µm, pack of 25
	11806-100 G	0.45 µm, pack of 25
	11807-100 G	0.2 µm, pack of 25
142 mm diameter	11842-142 G	5 µm, pack of 25
	11803-142 G	1.2 µm, pack of 25
	11806-142 G	0.45 µm, pack of 25
	11807-142 G	0.2 µm, pack of 25
293 mm diameter	11806-293 G	0.45 µm, pack of 25
	11807-293 G	0.2 µm, pack of 25