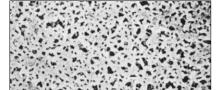
Filtration

Membrane Filter Discs

Low Adsorption Cellulose Acetate

Membranes with high flow rates, very low adsorption characteristics coupled with thermal stability. This makes the 0.2µm pore size excellently suited for use in disc filter holders to sterilise aqueous solutions, buffers, sera and media.



Specifications:

Bubble points Max. values wetted with water, 3.5 bar (350 kPa) for 0.2µm, 2.0

bar (200kPa) for 0.45µm, 1.3 bar (130 kPa) for 0.65µm and 0.8

bar (80 kPa) for 0.8µm

Compatibility Stable within the pH range 4-8 and resistant against most alco-

hols, hydrocarbons and oils

Extractables With water less than 1%

Flow rates Average values for water per cm² at 1 bar differential pressure,

22ml/min for 0.2µm, 69ml/min for 0.45µm, 130ml/min for 0.65µm

and 200ml/min for 0.8µm

Limits Max temp 180°C Cellulose acetate Material

Sterilisation By autoclaving at 121°C or 134°C, with χ -radiation or ethylene

Thickness Average value 135µm

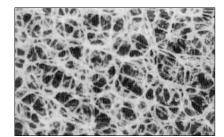
Order numbers for 13mm cellulose acetate filter discs type 111

F292	Filter membrane 13mm \emptyset , 0.8 μ m pore size white, plain	pack of 100
F122	Filter membrane 13mm Ø, 0.45µm pore size white, plain	pack of 100
F124	Filter membrane 13mm Ø, 0.2µm pore size white, plain	pack of 100

25mm filter discs

F293	Filter membrane 25mm Ø, 0.8µm pore size white, plain	pack of 100
F294	Filter membrane 25mm Ø, 0.65µm pore size white, plain	pack of 100
F123	Filter membrane 25mm Ø, 0.45µm pore size white, plain	pack of 100
F125	Filter membrane 25mm Ø, 0.2µm pore size white, plain	pack of 100

Other diameters available - 30mm, 47mm, 50mm, 85mm, 90mm, 100mm, 142mm, 293mm. Please ask.



RC Membrane Discs for Organic Solvents

Hydrophilic membrane discs for the removal of particles from solvents see list page 4.1.

Specifications

Adsorption Approx. 24µg/cm² for 0.2µm pore size, 18µg/cm² for 0.2µm pore size See list page 4.1. Also resistant to aqueous solutions pH 3-12 Compatibility

Extractables With water less than 1%

Average values per cm² area for water at 1 bar (100kPa) pressure, 20ml/ Flow rates

min for 0.2µm, 47ml/min for 0.45µm

Material Regenerated cellulose, reinforced with non-woven cellulose Sterilisation By autoclaving at 121°C or 134°C, dry heat (180°C), χ-radiation or

ethylene oxide

Thickness Average value 160µm

Order numbers for 13mm diameter RC filter membranes type 184

F295	0.45µm	pack of 100
F296	0.2µm	pack of 100
25mm fi	Iter discs	
F297	0.45µm	pack of 100
F298	0.2µm	pack of 100

E-mail: sales@taab.co.uk

Other sizes available 47mm, 50mm, 100mm, 142mm, 293mm - please ask

Filtration

Cellulose Nitrate

Cellulose nitrate gives very uniform pore structure over a wide range of pore sizes.

Specifications

Bubble points On request

Compatibility Chemically resistant to aqueous solutions in the pH range 4-8, to

hydrocarbons and some other organic solvents

Extractables Less than 1% with water Flow rates 750ml/min for 8µm pore size

570ml/min for 5µm pore size 430ml/min for 3µm pore size 320ml/min for 1.2µm pore size 130ml/min for 0.65µm pore size 69ml/min for 0.45µm pore size 33ml/min for 0.3µm pore size 22ml/min for 0.2µm pore size 5ml/min for 0.1µm pore size

Heat stability Do not expose to temperatures above 130°C

Sterilisation By autoclaving at 121°C, χ -radiation or ethylene oxide Varies with pore size, $90\mu m$ (0.1 μm) to $140\mu m$ ($8\mu m$)



F135 Filter membrane 13mm Ø 0.45μm pore size, white, plain pack of 100 pack of 100 pack of 100 pack of 100 pack of 100

25mm filter discs

F300 Filter membrane 25mm Ø 0.45μm pore size, white, plain pack of 100 pack o

Additional pore sizes as above specification (see *flow rates*) in other diameters of 20mm, 30mm, 37mm, 40mm, 47mm, 50mm, 80mm, 85mm, 90mm, 100mm, 120mm, 142mm, 150mm, 257mm, 293mm. The 47mm and 50mm filter discs are available in pre-sterilised packs. **Please ask.**

Polyamide Filter Membranes

Type 250 for the filtration of **alkaline solutions** and **organic solvents**. These filters are specified for the isolation of legionella and their high adsorption and good mechanical strength make them very useful for blotting procedures. They are both hydrophilic and chemically resistant to most bases including 1N NaOH so are very good general purpose particle removing or sterilising filters for alkaline solutions. Their compatibility with many organic solvents and their favourable price compared with PTFE membranes, makes them an economical choice for particle removal for HPLC. They are not recommended for applications such as sterilising filtration of tissue culture solutions as their relatively high adsorption could cause loss of important trace substances. For these applications cellulose acetate is best used.

Specification

Extractables With water less then 0.2%

Compatibility Stable within pH range 3-14 and resistant to many solvents

Flow rates Average values per cm2 area for water at 1 bar, 23ml/min for 0.2µm,

46ml/min for 0.45µm

Sterilisation By autoclaving at 121°C, χ-radiation or ethylene oxide

Thickness Average value 125µm

Order numbers for 13mm diameter polyamide type 250 filters

 F302
 0.45μm
 pack of 100

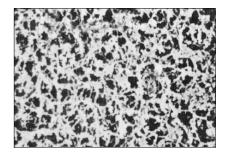
 F303
 0.2μm
 pack of 100

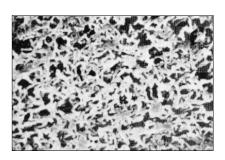
25mm diameter filters

 F304
 0.45μm
 pack of 100

 F305
 0.2μm
 pack of 100

Other diameters available - 47mm, 50mm, 90mm, 142mm, 293mm please ask

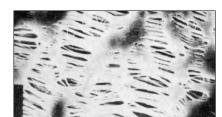




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4

Filtration



PTFE Membrane Filters

Type 118 **hydrophobic** membranes for the filtration of **air**, **gases** and **chemicals**.

These membranes are made purely from PTFE. They allow unhindered passage of moist air or other gases even at low differential pressures as, unlike the hydrophilic membranes, they bare not wetted and blocked by the moisture.

The extreme chemical resistance of PTFE makes these filters very useful for the filtration of those solvents or aggressive chemicals for which other membranes are unsuitable. When used for filtration of aqueous solutions they must be pre-wetted with a solvent such as ethanol or isopropanol before water passage can occur.

Specifications

 $\begin{array}{ll} \textit{Adsorption} & 8 \mu \text{g/cm2 for } \chi\text{-globulin for 0.2}\mu\text{m pore size} \\ \textit{Compatibility} & \text{Resistant to almost all solvents and chemicals} \end{array}$

Extractables With water none detectable

Flow rates Average values per cm² area for air at p=0.05 bar. 0.2l/min for 0.2µm,

0.3l/min for 0.45, 1.6l/min for $1.2\mu m$ and 4l/min for $5\mu m$

Sterilisation By autoclaving at 121°C or 131°C, χ -radiation or with ethylene oxide Average value from 65 μ m for 0.2 μ m pore size to 100 μ m for 5 μ m

Order numbers for 13mm PTFE filters type 118

F306	1.2µm pore size	pack of 100		
F307	0.45µm pore size	pack of 100		
F308	0.2µm pore size	pack of 100		
25mm diameter PTFE membrane				
F309	5µm pore size	pack of 100		
F310	1.2µm pore size	pack of 100		
F311	0.45µm pore size	pack of 100		
F312	0.2µm pore size	pack of 100		

Fax: +44 (0) 118 981 7881

E-mail: sales@taab.co.uk