

qpore[®]

Finest Filtration

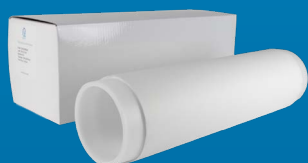
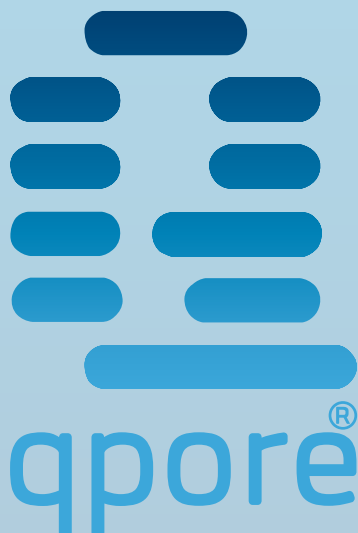


Table of Contents

Centrifugal Filters	3
Bottle-Top Filters and Filtration Units	4
Membrane Filters	6
Syringe Filters	8
Paper Filters	13
Glass Fiber Filters	15
Transfer Membranes	15



Smart solutions for laboratory filtration

With **qpore®** you are choosing a brand that is rethinking **laboratory filtration**. Developed in close collaboration with users, qpore® combines **high-quality materials**, **precise workmanship** and **impressive performance** – all at a price that speaks for itself.

Whether research, quality control or routine work – qpore® delivers filtration solutions that perfectly combine **efficiency** and **cost-effectiveness**. It pays to compare: qpore® stands for top quality that everyone can afford.

Centrifugal Filters

q pore® centrifugal filters offer an efficient solution for concentrating and purifying biological samples. Their vertical design and large filtration area ensure fast sample processing and high recovery rates of over 90 %.

- **High efficiency:** Fast filtration & high recovery rates.
- **Sample protection:** A physical dead-stop prevents drying out and reduces sample loss.

- **Versatility:** Various molecular weight cut-offs (MWCO) and a broad range of applications, from proteins and nucleic acids to antibodies.
- **Low protein binding:** PES membranes for minimal binding of biomolecules.
- **Precise application:** Ideal for concentrating and purifying biological samples such as peptides, enzymes, antibodies and other macromolecules.

Ultrafiltration centrifugal filter

The ultrafiltration centrifugal filters enable fast, efficient concentration and purification of biological samples. Their vertical design and maximum filtration area ensure rapid sample processing and a high recovery rate (typically above 90 % of the diluted starting solution). Samples are concentrated gently to preserve protein activity and conformation. A physical dead-stop in the filter device prevents the sample from drying out during filtration and reduces potential sample loss. These filters offer a wide range of molecular weight cut-offs (MWCO) and are made of PES membranes with low binding of proteins and nucleic acids.

- sterile: No
- TBST MAX: 40 °C
- Outer bottom: conical
- Membrane material: polyethersulfone (PES)

Features:

- Low biological binding and high chemical resistance
- Special design to prevent drying out and protect samples from damage caused by excessive centrifugation
- Wide choice of pore sizes for different MWCO requirements
- Effective filtration area of up to 7.2 cm² (15 ml) and 3.5 cm² (4 ml), enabling a higher flow rate

Art. no.	Centrifugal filter Maxi, 1 pack (12 pcs each)
6-0160	Ultrafiltration centrifugal filter Maxi 15 ml 5kDa
6-0161	Ultrafiltration centrifugal filter Maxi 15 ml 10kDa
6-0162	Ultrafiltration centrifugal filter Maxi 15 ml 30kDa
6-0163	Ultrafiltration centrifugal filter Maxi 15 ml 50kDa
6-0164	Ultrafiltration centrifugal filter Maxi 15 ml 100kDa
6-0173	Microfiltration centrifugal filter Maxi 15 ml 0.1 µm
6-0174	Microfiltration centrifugal filter Maxi 15 ml 0.22 µm
6-0175	Microfiltration centrifugal filter Maxi 15 ml 0.45 µm



Applications:

- Concentration/desalting of proteins/nucleic acids
- Buffer exchange or desalting of components
- Recovery of biomolecules from culture media
- Concentration/separation of viruses
- Coarse separation of biomolecular mixtures
- Removal of particles and debris from cell lysate
- Removal of primers, adapters or molecular markers from reaction mixtures

Art. no. Centrifugal filter Midi, 1 pack (24 pcs each)

6-0165	Ultrafiltration centrifugal filter Midi 4 ml 5kDa
6-0166	Ultrafiltration centrifugal filter Midi 4 ml 10kDa
6-0167	Ultrafiltration centrifugal filter Midi 4 ml 30kDa
6-0168	Ultrafiltration centrifugal filter Midi 4 ml 50kDa
6-0169	Ultrafiltration centrifugal filter Midi 4 ml 100kDa
6-0170	Microfiltration centrifugal filter Midi 4 ml 0.1 µm
6-0171	Microfiltration centrifugal filter Midi 4 ml 0.22 µm
6-0172	Microfiltration centrifugal filter Midi 4 ml 0.45 µm

Art. no. Centrifugal filter Mini, 1 pack (25 pcs each)

6-0176	Ultrafiltration centrifugal filter Mini 500 µl 5kDa
6-0177	Ultrafiltration centrifugal filter Mini 500 µl 10kDa
6-0178	Ultrafiltration centrifugal filter Mini 500 µl 30kDa
6-0179	Ultrafiltration centrifugal filter Mini 500 µl 50kDa
6-0180	Ultrafiltration centrifugal filter Mini 500 µl 100kDa

Bottle-Top Filters and Filtration Units



Cellulose Acetate (CA) Bottle-Top Filters

These sterile qpore® bottle-top filters with a cellulose acetate (CA) membrane offer fast flow rates and very low protein binding, making them ideally suited to filtering cell culture media. With a GL 45 screw cap and hose connector, these bottle-top filters are designed for vacuum filtration applications directly into the sterile bottle.

Features:

- › Quick connector for tubing with an inner Ø of 8–12 mm
- › Graduated filter funnel
- › Sterile, pyrogen-free, detergent-free
- › The bottle-top filters are individually wrapped sterile, 24 pcs per pack
- › Packaging with pre-cut tear-open aid - no additional tools needed to open

Applications:

- › Sterile filtration of cell culture media
- › Microbiological media
- › Buffer solutions and other biological solutions
- › 24 pcs/pack

Art. no. Bottle-top filter, CA, sterile

6-0006	Bottle-top filter, 0.22 µm, 250 ml
6-0007	Bottle-top filter, 0.45 µm, 250 ml
6-0010	Bottle-top filter, 0.22 µm, 500 ml
6-0011	Bottle-top filter, 0.45 µm, 500 ml



Polyethersulfone (PES) Bottle-Top Filters

With a GL 45 screw cap and hose connector, these bottle-top filters are designed for vacuum filtration applications directly into the sterile bottle.

Features:

- › Quick connector for tubing with an inner Ø of 8–12 mm
- › Graduated filter funnel
- › Sterile, pyrogen-free, detergent-free
- › The bottle-top filters are individually wrapped sterile, 24 pcs per pack
- › Packaging with pre-cut tear-open aid - no additional tools needed to open

Applications:

- › Sterile filtration of cell culture media
- › Microbiological media
- › Buffer solutions and other biological solutions
- › 24 pcs/pack

Art. no. Item description

6-0037	Bottle-top filter, PES, sterile, 0.10 µm, 250 ml
6-0004	Bottle-top filter, PES, sterile, 0.22 µm, 250 ml
6-0005	Bottle-top filter, PES, sterile, 0.45 µm, 250 ml
6-0040	Bottle-top filter, PES, sterile, 0.10 µm, 500 ml
6-0008	Bottle-top filter, PES, sterile, 0.22 µm, 500 ml
6-0009	Bottle-top filter, PES, sterile, 0.45 µm, 500 ml
6-0193	Bottle-top filter, PES, sterile, 0.1 µm, 1000 ml
6-0194	Bottle-top filter, PES, sterile, 0.22 µm, 1000 ml
6-0195	Bottle-top filter, PES, sterile, 0.45 µm, 1000 ml

We offer **bottle-top filters and filtration units** that are particularly suitable for filtering larger sample volumes.

All membranes are manufactured from the finest raw materials to the highest quality standards.

- **High flow rates:** For fast filtration
- **Low protein binding:** Ideal for filtering cell culture media.
- **Sterile & pyrogen-free:** Ensures the highest hygiene & safety standards.
- **Detergent-free:** No contaminant residues left in the filtered solutions.



Polyvinylidene Fluoride (PVDF) Bottle-Top Filters

qpore® offers an extensive range of bottle-top filters made of different materials, particularly suitable for filtering larger sample volumes. All membranes are manufactured from the finest raw materials to the highest quality standards.

These sterile qpore® bottle-top filters with a hydrophilic polyvinylidene fluoride (PVDF) membrane offer the fastest flow rates.

With a GL 45 screw cap and hose connector, these bottle-top filters are designed for vacuum filtration applications directly into the sterile bottle.

- 24 pcs/pack

Polyethersulfone (PES) Filtration Units

Sterile filtration units with a polyethersulfone (PES) membrane. At the end of filtration, the sterile solution can be stored in the filtrate bottle until use. Scope of delivery: filter funnel with PES membrane, vacuum connector, lid, filtrate bottle and cap.

- Quick connector for tubing with an inner Ø of 8-12 mm
- Graduated filter funnel
- Sterile, pyrogen-free, detergent-free
- The filtration units are individually wrapped sterile, 12 pcs per pack
- Packaging with pre-cut tear-open aid - no additional tools needed to open

Applications:

- Sterile filtration of cell culture media
- Microbiological media
- Buffer solutions and other biological solutions

Art. no.	Filtration unit, PES
6-0051	250/250 ml, 0.22 µm, Ø 50 mm
6-0052	250/250 ml, 0.45 µm, Ø 50 mm
6-0053	250/500 ml, 0.1 µm, Ø 50 mm
6-0054	250/500 ml, 0.22 µm, Ø 50 mm
6-0055	250/500 ml, 0.45 µm, Ø 50 mm
6-0056	500/500 ml, 0.22 µm, Ø 90 mm
6-0057	500/500 ml, 0.45 µm, Ø 90 mm
6-0058	500/1000 ml, 0.1 µm, Ø 90 mm
6-0059	500/1000 ml, 0.22 µm, Ø 90 mm
6-0060	500/1000 ml, 0.45 µm, Ø 90 mm
6-0190	1000/1000 ml, 0.1 µm, Ø 90 mm
6-0191	1000/1000 ml, 0.22 µm, Ø 90 mm
6-0192	1000/1000 ml, 0.45 µm, Ø 90 mm

Art. no.	Item description
6-0038	Bottle-top filter, PVDF, 250 ml, 0.22 µm, Ø 50 mm
6-0039	Bottle-top filter, PVDF, 250 ml, 0.45 µm, Ø 50 mm
6-0041	Bottle-top filter, PVDF, 500 ml, 0.22 µm, Ø 90 mm
6-0042	Bottle-top filter, PVDF, 500 ml, 0.45 µm, Ø 90 mm



Membrane Filters

qpore® membrane filters are made from high-quality raw materials and are suitable for a wide variety of filtration applications in the laboratory.

Polytetrafluoroethylene (PTFE) Membrane Filters, hydrophilic and hydrophobic

The hydrophilic qpore membrane filters made of polytetrafluoroethylene (PTFE) are ideally suited to filtering dipolar media where high chemical resistance is required. The PTFE membranes are biologically and chemically inert and offer high flow rates.

› 200 pcs/pack

Art. no.	Item description
6-0084	Membrane filter, PTFE, non-sterile, hydrophobic, 0.22 µm, Ø 47 mm
6-0085	Membrane filter, PTFE, non-sterile, hydrophobic, 0.45 µm, Ø 47 mm
6-0086	Membrane filter, PTFE, non-sterile, hydrophilic, 0.22 µm, Ø 47 mm
6-0087	Membrane filter, PTFE, non-sterile, hydrophilic, 0.45 µm, Ø 47 mm

Polyethersulfone (PES) Membrane Filters, sterile and non-sterile

Thanks to their asymmetric pore structure, the hydrophilic membrane filters made of pure polyethersulfone (PES) offer the highest flow rate of any membrane material. Their low protein and API binding makes PES membrane filters ideally suited to filtration in the life sciences. Owing to their high thermal stability, PES membrane filters can also be used to filter hot liquids.

› sterile: 100 pcs/pack, non-sterile: 200 pcs/pack

Art. no.	Item description
6-0096	Membrane filter, PES, non-sterile, 0.22 µm, Ø 47 mm
6-0097	Membrane filter, PES, non-sterile, 0.45 µm, Ø 47 mm
6-0151	Membrane filter, PES, sterile, 0.22 µm, Ø 47 mm
6-0152	Membrane filter, PES, sterile, 0.45 µm, Ø 47 mm

Polyamide/Nylon (PA) Membrane Filters

The hydrophilic membrane filters made of pure nylon wet evenly and retain their tear strength in general filtration and medical applications, without the need for wetting additives.

They are flexible, durable, tear-resistant and autoclavable up to 135 °C. The high-quality nylon membrane filters are suitable for aqueous solutions, most organic solvents and a wide variety of biological samples, especially where other membranes are unsuitable.

Art. no.	Item description
6-0094	Membrane filter, Nylon, non-sterile, 0.22 µm, Ø 47 mm, 200 pcs/pack
6-0095	Membrane filter, Nylon, non-sterile, 0.45 µm, Ø 47 mm, 200 pcs/pack
6-0181	Membrane filter, Nylon, non-sterile, 0.65 µm, Ø 47 mm, 100 pcs/pack
6-0182	Membrane filter, Nylon, non-sterile, 1.0 µm, Ø 47 mm, 100 pcs/pack
6-0183	Membrane filter, Nylon, non-sterile, 3.0 µm, Ø 47 mm, 100 pcs/pack
6-0184	Membrane filter, Nylon, non-sterile, 5.0 µm, Ø 47 mm, 100 pcs/pack
6-0186	Membrane filter, Nylon, non-sterile, 0.22 µm, Ø 90 mm, 50 pcs/pack

Cellulose Acetate (CA) Membrane Filters

The hydrophilic qpore membrane filters made of pure cellulose acetate (CA) are among the filters with the lowest binding properties. These filters allow high filtration volumes, reducing the number of filter changes required. CA membrane filters are ideally suited to filtering proteins and enzymes, sterile filtration of cell culture media and other applications - wherever preserving the original protein composition and concentration matters.

› 200 pcs/pack

Art. no.	Item description
6-0082	Membrane filter, CA, non-sterile, 0.22 µm, Ø 47 mm
6-0083	Membrane filter, CA, non-sterile, 0.45 µm, Ø 47 mm



Polyvinylidene Fluoride (PVDF) Membrane Filters, hydrophilic and hydrophobic

The hydrophobic qpore membrane filters made of polyvinylidene fluoride (PVDF) bind far less protein than membrane filters made of nylon, PTFE or mixed cellulose ester. They offer a very high flow rate compared with other membrane materials.

Their low protein and API binding makes PVDF membrane filters ideally suited to filtration in the life sciences. These membrane filters are also excellent for the clarifying filtration of air and other gases.

› 200 pcs/pack

Art. no.	Item description
6-0088	Membrane filter, PVDF, non-sterile, hydrophobic, 0.22 µm, Ø 47 mm
6-0089	Membrane filter, PVDF, non-sterile, hydrophobic, 0.45 µm, Ø 47 mm
6-0090	Membrane filter, PVDF, non-sterile, hydrophilic, 0.22 µm, Ø 47 mm
6-0091	Membrane filter, PVDF, non-sterile, hydrophilic, 0.45 µm, Ø 47 mm



Mixed Cellulose Ester (MCE) Membrane Filters

This hydrophilic, non-sterile qpore® membrane filter made of mixed cellulose ester (MCE) is composed of cellulose acetate and cellulose nitrate and is characterized by a soft, uniform surface structure.

Effective retention properties combined with high flow rates and excellent thermal resistance make this membrane filter suitable for a broad range of applications, from clarifying and sterile filtration to airborne particle analysis.

Features:

- › Membrane diameters 25 mm and 47 mm
- › High flow rates
- › Membrane thickness approx. 130 µm
- › Good thermal resistance (max. 90 °C)
- › The membrane filters are non-sterile, **packed in units of 200 pcs.**

Applications:

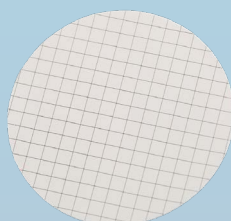
- › Clarifying and sterile filtration of liquids
- › Airborne particle analysis
- › Contamination analysis of fuels and hydraulic fluids
- › Various biological applications (cell harvesting or cell washing)

Art. no.	Item description
6-0026	Membrane filter, CME, non-sterile, 0.22 µm, Ø 25 mm
6-0027	Membrane filter, CME, non-sterile, 0.22 µm, Ø 47 mm
6-0028	Membrane filter, CME, non-sterile, 0.45 µm, Ø 25 mm
6-0029	Membrane filter, CME, non-sterile, 0.45 µm, Ø 47 mm

Mixed Cellulose Ester (MCE) Membrane Filters, sterile, gridded

Features:

- › Membrane diameters 47 mm and 50 mm
- › Grid spacing: 3.1 x 3.1 mm
- › High flow rates
- › Short wetting time: < 3 seconds
- › Membrane thickness approx. 130 µm
- › Working temperature max. 90 °C
- › The membrane filters are individually wrapped sterile, **packed in units of 100 pcs.**



Applications:

- › Clarifying and sterile filtration of liquids
- › Airborne particle analysis
- › Contamination analysis of fuels and hydraulic fluids
- › Various biological applications (colony counting, cell harvesting, cell washing)



Mixed Cellulose Ester (MCE) Membrane Filters, sterile, gridded

qpore® gridded membranes made of mixed cellulose ester (MCE) consist of cellulose acetate and cellulose nitrate. Because the MCE membrane is biologically inert, it is widely used in analytical and research applications. MCE membrane filters feature a smoother, more uniform surface than pure nitrocellulose filters. The color contrast of the filter surface makes particle detection easier and minimizes eye fatigue. Many microbiological techniques use colony counting after incubation as the standard quantification method. Gridded filters have clearly defined grid lines at 3.1 mm intervals. The special ink used is non-toxic and completely free of bacterial growth inhibitors. White gridded discs are intended for the recovery and retention of E. coli bacteria in water/ wastewater analysis and for other microbiological tests.

- › The membrane filters are sterile, packed in units of 150 pcs.

Art. no.	Mixed Cellulose Ester (MCE) Membrane Filters, sterile, gridded
6-0120	Suitable for dispensers, 0.22 µm, Ø 47 mm
6-0121	Suitable for dispensers, 0.45 µm, Ø 47 mm
6-0122	Suitable for dispensers, 0.8 µm, Ø 47 mm



Art. no.	Item description
6-0030	Membrane filter, CME gridded, sterile, 0.22 µm, Ø 47 mm
6-0031	Membrane filter, CME gridded, sterile, 0.45 µm, Ø 47 mm
6-0032	Membrane filter, CME gridded, sterile, 0.80 µm, Ø 47 mm
6-0033	Membrane filter, CME gridded, sterile, 0.22 µm, Ø 50 mm
6-0034	Membrane filter, CME gridded, sterile, 0.45 µm, Ø 50 mm

Syringe Filters



Cellulose Acetate (CA) Syringe Filters, sterile

This sterile qpore® syringe filter has a hydrophilic cellulose acetate membrane. With a membrane diameter of 25 mm and an effective filtration area of approx. 3.9 cm², this filter is ideal for sample preparation in the volume range from 1.5 to 100 ml.

Thanks to its low protein binding, this syringe filter is ideal for the sterile and clarifying filtration of culture media, buffers and aqueous solutions in general. The rugged polypropylene filter housing withstands pressures of up to 6.5 bar, allowing fast filtration.

Features:

- › Membrane diameter: 25 mm
- › Low dead volume
- › Nitrate-free
- › Stable at pH 1-14
- › DNA-, DNase-, RNase- and pyrogen-free
- › Luer connectors: female Luer-Lock, male Luer slip
- › No risk of mix-ups thanks to labeling (membrane type, pore size)

The syringe filters are individually wrapped sterile, 100 pcs per pack.



Cellulose Acetate (CA) Syringe Filters, non-sterile

This non-sterile qpore® syringe filter has a hydrophilic CA membrane, making it ideal for filtering aqueous solutions. CA exhibits low protein binding. This makes the syringe filter suitable wherever the application or clarifying filtration is permitted under non-sterile conditions, typically in sample preparation prior to HPLC or GC. Glass fiber prefilter included.

The rugged polypropylene filter housing withstands pressures of up to 6.0 bar, allowing fast filtration.

Features:

- › Low dead volume
- › Stable at pH 1-14
- › Luer connectors: female Luer-Lock, male Luer slip
- › No risk of mix-ups thanks to labeling (membrane type, pore size)

The syringe filters are non-sterile, packed in a bag of 100 pcs.



Art. no.	Item description
6-0012	Syringe filter, CA, 0.22 µm, Ø 25 mm, sterile
6-0013	Syringe filter, CA, 0.45 µm, Ø 25 mm, sterile
6-0014	Syringe filter, CA, 0.22 µm, Ø 30 mm, sterile
6-0015	Syringe filter, CA, 0.45 µm, Ø 30 mm, sterile

Art. no.	Item description
6-0062	Syringe filter, CA, glass fiber prefilter, non-sterile, 0.22, Ø 30 mm
6-0063	Syringe filter, CA, glass fiber prefilter, non-sterile, 0.22, Ø 30 mm

qpore® syringe filters provide high-quality filtration for a wide range of applications and stand out for their high chemical resistance, fast flow rates and low dead volume.

- **Versatile applications:** Ideal for sterile filtration, cell removal and clarifying filtration of solutions.
- **Fast filtration:** High flow rates thanks to hydrophilic membranes.
- **Robust and stable:** Suitable for a wide pH range (1–14).
- **Various sizes:** A choice of diameters (13 mm to 33 mm) and materials.
- **Sterile or non-sterile:** Whatever your needs require, for maximum flexibility.



Syringe filter, glass fiber

The qpore® glass fiber syringe filters with a pore size of 1 µm are particularly well suited to the prefiltration of heavily loaded samples. The special housing allows this syringe filter to be mounted onto a second syringe filter, enabling two-step filtration in a single operation.

The male Luer-Lock outlet connector on article 6-0061 enables a firm connection between the glass fiber syringe filter and the female Luer-Lock inlet of a second syringe filter.

All other glass fiber syringe filters have female Luer-Lock and male Luer slip connectors.

The syringe filters are non-sterile, packed in a bag of 100 pcs.

Mixed Cellulose Ester (MCE) Syringe Filters, sterile and non-sterile

The sterile syringe filter has a hydrophilic MCE membrane with very good thermal and chemical resistance. Its excellent flow rate makes it ideal for sterile filtration, clarifying filtration and cell removal under sterile conditions. The rugged polypropylene filter housing withstands pressures of up to 5.0 bar, allowing fast filtration. The male Luer-Lock connector makes it possible to screw several of these filters together in series.

- Low dead volume
- Stable at pH 1–14
- DNA-, DNase-, RNase- and pyrogen-free
- Luer connectors: female Luer-Lock, male Luer-Lock
- No risk of mix-ups thanks to labeling (membrane type, pore size)
- 100 pcs/pack (sterile version individually wrapped)

Art. no.	Syringe filter, CME
6-0127	CME, sterile, 0.22 µm, Ø 13 mm
6-0128	CME, sterile, 0.45 µm, Ø 13 mm
6-0076	CME, sterile, 0.22 µm, Ø 33 mm
6-0077	CME, sterile, 0.45 µm, Ø 33 mm
6-0135	CME, non-sterile, 0.8 µm, Ø 13 mm
6-0136	CME, non-sterile, 1 µm, Ø 13 mm
6-0137	CME, non-sterile, 3 µm, Ø 13 mm
6-0138	CME, non-sterile, 5 µm, Ø 13 mm
6-0139	CME, non-sterile, 8 µm, Ø 13 mm
6-0140	CME, non-sterile, 0.8 µm, Ø 30 mm
6-0141	CME, non-sterile, 1 µm, Ø 30 mm
6-0142	CME, non-sterile, 3 µm, Ø 30 mm
6-0143	CME, non-sterile, 5 µm, Ø 30 mm
6-0144	CME, non-sterile, 8 µm, Ø 30 mm
6-0118	CME, glass fiber prefilter, non-sterile, 0.22, Ø 13 mm
6-0119	CME, glass fiber prefilter, non-sterile, 0.45, Ø 13 mm
6-0078	CME, glass fiber prefilter, non-sterile, 0.22, Ø 30 mm
6-0079	CME, glass fiber prefilter, non-sterile, 0.45, Ø 30 mm

Art. no.	Syringe filter, glass fiber
6-0331	non-sterile, 0.7 µm, Ø 4 mm, 200 pcs/pack
6-0334	non-sterile, 1.0 µm, Ø 4 mm, 200 pcs/pack
6-0337	non-sterile, 2.7 µm, Ø 4 mm, 200 pcs/pack
6-0332	non-sterile, 0.7 µm, Ø 13 mm, 100 pcs/pack
6-0335	non-sterile, 1.0 µm, Ø 13 mm, 100 pcs/pack
6-0338	non-sterile, 2.7 µm, Ø 13 mm, 100 pcs/pack
6-0333	non-sterile, 0.7 µm, Ø 25 mm, 100 pcs/pack
6-0336	non-sterile, 1.0 µm, Ø 25 mm, 100 pcs/pack
6-0339	non-sterile, 2.7 µm, Ø 25 mm, 100 pcs/pack
6-0061	non-sterile, 1.0 µm, Ø 33 mm, 100 pcs/pack





Polyethersulfone (PES) Syringe Filters, sterile

This sterile qpore® syringe filter has a hydrophilic PES membrane with high mechanical and chemical resistance and minimal protein adsorption. Its excellent flow rate makes it ideal for sterile filtration, clarifying filtration and cell removal under sterile conditions.

The rugged polypropylene filter housing withstands pressures of up to 5.0 bar, allowing fast filtration. The male Luer-Lock connector on the 33 mm diameter version makes it possible to screw several of these filters together in series.

Art. no.	Item description
6-0043	Syringe filter, PES, sterile, 0.1 µm, Ø 25 mm
6-0044	Syringe filter, PES, sterile, 0.22 µm, Ø 25 mm
6-0045	Syringe filter, PES, sterile, 0.45 µm, Ø 25 mm
6-0046	Syringe filter, PES, sterile, 0.1 µm, Ø 30 mm
6-0047	Syringe filter, PES, sterile, 0.22 µm, Ø 30 mm
6-0048	Syringe filter, PES, sterile, 0.45 µm, Ø 30 mm

- › Membrane diameters 13, 25, 30 and 33 mm
- › Low dead volume
- › Stable at pH 1-14
- › DNA-, DNase-, RNase- and pyrogen-free
- › Luer connectors:
 - Female Luer-Lock, male Luer slip: 13, 25 and 30 mm Female Luer-Lock, male Luer-Lock: 33 mm
- › No risk of mix-ups thanks to labeling (membrane type, pore size)

The syringe filters are individually wrapped sterile, 100 pcs per pack.

Art. no.	Item description
6-0123	Syringe filter, PES, sterile, 0.1 µm, Ø 13 mm
6-0124	Syringe filter, PES, sterile, 0.22 µm, Ø 13 mm
6-0125	Syringe filter, PES, sterile, 0.45 µm, Ø 13 mm
6-0067	Syringe filter, PES, sterile, 0.1 µm, Ø 33 mm
6-0068	Syringe filter, PES, sterile, 0.22 µm, Ø 33 mm
6-0069	Syringe filter, PES, sterile, 0.45 µm, Ø 33 mm

Polyethersulfone (PES) Syringe Filters, non-sterile

This non-sterile qpore® syringe filter has a hydrophilic PES membrane, making it ideal for filtering aqueous solutions.

PES offers a high filtration speed and low protein binding. This makes the syringe filter suitable wherever the application or clarifying filtration is permitted under non-sterile conditions, typically in sample preparation prior to HPLC or GC.

The rugged polypropylene filter housing withstands pressures of up to 6.0 bar, allowing fast filtration.

- › Low dead volume
- › Stable at pH 1-14
- › Luer connectors: female Luer-Lock, male Luer slip
- › Glass fiber prefilter included
- › No risk of mix-ups thanks to labeling (membrane type, pore size)

The syringe filters are non-sterile, packed in a bag of 100 pcs.

Art. no.	Item description
6-0064	Syringe filter, PES, non-sterile, glass fiber prefilter, 0.22, Ø 25 mm
6-0065	Syringe filter, PES, non-sterile, glass fiber prefilter, 0.45, Ø 25 mm





Polyamide/Nylon (PA) Syringe Filters

This non-sterile qpore® syringe filter has a hydrophilic nylon membrane and is ideal for filtering aqueous solutions and solvents.

The clean, pure nylon membrane combines the fastest flow rates with low non-specific binding.

This makes the syringe filter suitable wherever the application or clarifying filtration is permitted under non-sterile conditions, typically in sample preparation prior to HPLC or GC.

The effective filtration area of the syringe filter is 1.65 or 4.90 cm². The rugged polypropylene filter housing withstands pressures of up to 6.0 bar, allowing fast filtration.

Features:

- › Low dead volume
- › Stable at pH 3–12
- › Luer connectors: female Luer-Lock, male Luer slip
- › Glass fiber prefilter included
- › No risk of mix-ups thanks to labeling (membrane type, pore size)

The syringe filters are non-sterile, packed in a bag of 100 pcs.

Art. no.	Item description
6-0116	Syringe filter, Nylon, 0.22 µm, Ø 13 mm, non-sterile
6-0117	Syringe filter, Nylon, 0.45 µm, Ø 13 mm, non-sterile
6-0016	Syringe filter, Nylon, 0.22 µm, Ø 17 mm, non-sterile
6-0017	Syringe filter, Nylon, 0.45 µm, Ø 17 mm, non-sterile
6-0018	Syringe filter, Nylon, 0.22 µm, Ø 30 mm, non-sterile
6-0019	Syringe filter, Nylon, 0.45 µm, Ø 30 mm, non-sterile

Polytetrafluoroethylene (PTFE) Syringe Filters, sterile and non-sterile

This non-sterile qpore® syringe filter has a PTFE membrane with high resistance to solvents, acids and bases. This makes it suitable wherever the application or clarifying filtration is permitted under non-sterile conditions, typically in sample preparation prior to HPLC or GC. Glass fiber prefilter included.

When filtering hydrophilic solutions, pre-rinsing with a solvent is necessary to make the hydrophobic membrane permeable to aqueous solutions.

The rugged polypropylene filter housing withstands pressures of up to 6.0 bar, allowing fast filtration.

Features:

- › Low dead volume
- › Stable at pH 1–14
- › Luer connectors: female Luer-Lock, male Luer slip
- › No risk of mix-ups thanks to labeling (membrane type, pore size)

› 100 pcs/pack (sterile version individually wrapped)

Art. no.	Item description
6-0112	glass fiber prefilter, PTFE, non-sterile, hydrophobic, 0.22µm, Ø 13 mm
6-0113	glass fiber prefilter, PTFE, non-sterile, hydrophobic, 0.45µm, Ø 13 mm
6-0133	glass fiber prefilter, PTFE, non-sterile, hydrophilic, 0.22 µm, Ø 13 mm
6-0024	glass fiber prefilter PTFE, non-sterile, hydrophilic, 0.45 µm, Ø 13 mm
6-0156	polypropylene prefilter, PTFE, non-sterile, hydrophobic, 0.22 µm, Ø 13 mm
6-0020	glass fiber prefilter PTFE, non-sterile, hydrophobic, 0.22 µm, Ø 17 mm
6-0021	glass fiber prefilter PTFE, non-sterile, hydrophobic, 0.45 µm, Ø 17 mm
6-0134	glass fiber prefilter, PTFE, non-sterile, hydrophilic, 0.22 µm, Ø 25 mm
6-0025	glass fiber prefilter PTFE, non-sterile, hydrophilic, 0.45 µm, Ø 25 mm
6-0022	glass fiber prefilter PTFE, non-sterile, hydrophobic, 0.22 µm, Ø 30 mm
6-0023	glass fiber prefilter PTFE, non-sterile, hydrophobic, 0.45 µm, Ø 30 mm
6-0129	PTFE, sterile, hydrophobic, 0.22 µm, Ø 25 mm
6-0130	PTFE, sterile, hydrophobic, 0.45 µm, Ø 25 mm
6-0149	PTFE, sterile, hydrophilic, 0.22 µm, Ø 25 mm
6-0150	PTFE, sterile, hydrophilic, 0.45 µm, Ø 25 mm
6-0080	PTFE, sterile, hydrophobic, 0.22 µm, Ø 33 mm
6-0081	PTFE, sterile, hydrophobic, 0.45 µm, Ø 33 mm





Polyvinylidene Fluoride (PVDF) Syringe Filters, sterile and non-sterile

The sterile hydrophilic qpore® syringe filters made of polyvinylidene fluoride (PVDF) bind far less protein than syringe filters made of nylon, PTFE or mixed cellulose ester. They offer a very high flow rate compared with other membrane materials. Their low protein and API binding makes PVDF membrane filters ideally suited to filtration in the life sciences.

- › Membrane diameter 33 mm
- › Low dead volume
- › Stable at pH 1–14
- › DNA-, DNase-, RNase- and pyrogen-free
- › Luer connectors: female Luer-Lock, male Luer-Lock
- › No risk of mix-ups thanks to labeling (membrane type, pore size)

› 100 pcs/pack (sterile version individually wrapped)

Art. no.	Syringe filter, PVDF
6-0114	glass fiber prefilter, non-sterile, hydrophobic, 0.22, Ø 13 mm
6-0115	glass fiber prefilter, non-sterile, hydrophobic, 0.45, Ø 13 mm
6-0074	glass fiber prefilter, non-sterile, hydrophobic, 0.22, Ø 30 mm
6-0075	glass fiber prefilter, non-sterile, hydrophobic, 0.45, Ø 30 mm
6-0072	glass fiber prefilter, non-sterile, hydrophilic, 0.22, Ø 30 mm
6-0073	glass fiber prefilter, non-sterile, hydrophilic, 0.45, Ø 30 mm
6-0070	sterile, hydrophilic, 0.22 µm, Ø 33 mm
6-0071	sterile, hydrophilic, 0.45 µm, Ø 33 mm

Membrane Holders for Syringes

Reusable syringe filter holders are unaffected by chemicals and contain no trace elements that could leach into the liquid being filtered. This makes them ideal for particle removal in sample preparation.

- › Compatibility: chemical resistance as for polycarbonate and silicone
- › Dead volume: less than 0.3 ml
- › The holder requires a membrane filter with a diameter of 25 mm
- › 25 mm diameter: filtration area 3 cm²
- › Flow rates: typical values for water at 1 bar (100 kPa): 70 ml/min with 0.2 µm and 110 ml/min with 0.45 µm pore size filters
- › Materials: top and bottom made of polypropylene. Silicone gasket (20.5 x 26.5 mm, replacement available as a pack of 10)
- › Pressure limit: max. operating pressure 7 bar (700 kPa)
- › Sterilization by autoclaving (121 °C)

Applications:

- › Gas particle and bacteria filtration
- › Filtration of oil particles and bacteria
- › Filtration of alcohol particles and bacteria

Art. no.	Item description
6-0066	Syringe filter holder, Ø 25 mm, 10 pcs/pack

Noliquids Safety Filters, hydrophobic Polytetrafluoroethylene (PTFE), sterile

qpore® Noliquids safety filters prevent room air from being contaminated with harmful aerosols and protect vacuum pumps against the ingress of liquids. Also suitable for the sterile venting of bioreactors.

The filters can be autoclaved several times, which keeps costs low!

› Packaging unit: individually packed

Art. no.	Item description
6-0035	Noliquids safety filter PTFE, 0.22 µm, Ø 50 mm
6-0036	Noliquids safety filter PTFE, 0.45 µm, Ø 50 mm



Paper Filters

Protective Paper for Work Surfaces

The qpore® protective papers for work surfaces feature an absorbent paper on one side (liquid absorption 170 ml/m²) and a PE-coated film on the other.

Art. no. qpore® bench protection paper 125g/m²

6-0311	500 x 600 mm, 100 pcs/pack
6-0312	Width = 460 mm x 50 m, 1 roll
6-0313	Width = 600 mm x 50 m, 1 roll



Quantitative filter paper

The quantitative, ash-free qpore® filter papers are made from 100% high-quality cotton linter fibers and alpha-cellulose fibers subjected to a stringent chemical process. The filters are washed using a special acid treatment and then cleared of impurities with demineralized water. This process achieves an ash content of less than 0.01 %. These papers are used in a wide variety of demanding analyses.

Packaging unit: pack of 100 pcs

Art. no. Quantitative filter paper, QP303

6-0287	84g/m ² , fast / white dot, 55 mm
6-0288	84g/m ² , fast / white dot, 70 mm
6-0289	84g/m ² , fast / white dot, 90 mm
6-0290	84g/m ² , fast / white dot, 110 mm
6-0291	84g/m ² , fast / white dot, 125 mm
6-0292	84g/m ² , fast / white dot, 150 mm
6-0293	84g/m ² , fast / white dot, 185 mm
6-0294	84g/m ² , fast / white dot, 240 mm

Art. no. Quantitative filter paper, grade QP300

6-0303	84g/m ² , very slow / blue dot, 55 mm
6-0304	84g/m ² , very slow / blue dot, 70 mm
6-0305	84g/m ² , very slow / blue dot, 90 mm
6-0306	84g/m ² , very slow / blue dot, 110 mm
6-0307	84g/m ² , very slow / blue dot, 125 mm
6-0308	84g/m ² , very slow / blue dot, 150 mm
6-0309	84g/m ² , very slow / blue dot, 185 mm
6-0310	84g/m ² , very slow / blue dot, 240 mm

Art. no. Quantitative filter paper, grade QP304

6-0279	84g/m ² , very fast / black dot, 55 mm
6-0280	84g/m ² , very fast / black dot, 70 mm
6-0281	84g/m ² , very fast / black dot, 90 mm
6-0282	84g/m ² , very fast / black dot, 110 mm
6-0283	84g/m ² , very fast / black dot, 125 mm
6-0284	84g/m ² , very fast / black dot, 150 mm
6-0285	84g/m ² , very fast / black dot, 185 mm
6-0286	84g/m ² , very fast / black dot, 240 mm

Art. no. Quantitative filter paper, grade QP301

6-0295	84g/m ² , medium / red dot, 55 mm
6-0296	84g/m ² , medium / red dot, 70 mm
6-0297	84g/m ² , medium / red dot, 90 mm
6-0298	84g/m ² , medium / red dot, 110 mm
6-0299	84g/m ² , medium / red dot, 125 mm
6-0300	84g/m ² , medium / red dot, 150 mm
6-0301	84g/m ² , medium / red dot, 185 mm
6-0302	84g/m ² , medium / red dot, 240 mm



Standard filter paper

The standard filter papers are made from 100% cellulose. They can be used in a wide range of settings: research laboratories, schools/universities, and industries such as chemicals, pharmaceuticals, cosmetics, water treatment and food.

- Material: paper
- Filtration speed: medium/medium-fast/fast

Packaging unit: pack of 100 pcs

Art. no.	Standard filter paper, grade QP101
6-0232	73g/m ² , medium, 47 mm
6-0233	73g/m ² , medium, 55 mm
6-0234	73g/m ² , medium, 70 mm
6-0235	73g/m ² , medium, 90 mm
6-0236	73g/m ² , medium, 110 mm
6-0237	73g/m ² , medium, 125 mm
6-0238	73g/m ² , medium, 150 mm
6-0239	73g/m ² , medium, 185 mm
6-0240	73g/m ² , medium, 240 mm
Art. no.	Standard filter paper, grade QP101/f
6-0241	73g/m ² folded, medium, 150 mm
6-0242	73g/m ² folded, medium, 190 mm
6-0243	73g/m ² folded, medium, 250 mm
Art. no.	Standard filter paper, grade QP102
6-0217	64g/m ² , medium-fast, 47 mm
6-0218	64g/m ² , medium-fast, 55 mm
6-0219	64g/m ² , medium-fast, 70 mm
6-0220	64g/m ² , medium-fast, 90 mm
6-0221	64g/m ² , medium-fast, 110 mm
6-0222	64g/m ² , medium-fast, 125 mm
6-0223	64g/m ² , medium-fast, 150 mm
6-0224	64g/m ² , medium-fast, 185 mm
6-0225	64g/m ² , medium-fast, 240 mm
Art. no.	Standard filter paper, grade QP102/f
6-0226	64g/m ² folded, medium-fast, 110 mm
6-0227	64g/m ² folded, medium-fast, 130 mm
6-0228	64g/m ² folded, medium-fast, 150 mm
6-0229	64g/m ² folded, medium-fast, 190 mm
6-0230	64g/m ² folded, medium-fast, 250 mm
6-0231	64g/m ² folded, medium-fast, 330 mm
Art. no.	Standard filter paper, grade QP103
6-0244	73g/m ² , fast, 55 mm
6-0245	73g/m ² , fast, 70 mm
6-0246	73g/m ² , fast, 90 mm
6-0247	73g/m ² , fast, 110 mm
6-0248	73g/m ² , fast, 125 mm
6-0249	73g/m ² , fast, 150 mm
6-0250	73g/m ² , fast, 185 mm
6-0251	73g/m ² , fast, 240 mm
Art. no.	Standard filter paper, grade QP103/f
6-0252	73g/m ² folded, fast, 150 mm, grade QP103/f
6-0253	73g/m ² folded, fast, 190 mm, grade QP103/f
6-0254	73g/m ² folded, fast, 250 mm, grade QP103/f
6-0255	73g/m ² folded, fast, 330 mm, grade QP103/f

Qualitative filter paper

These qpore® qualitative filters are made from high-purity cotton linter fibers and cellulose fibers (ash content 0.06 %). The qualitative filter papers make it possible to determine the properties of filtered solutions and verify sample composition with great accuracy. Compared with standard filters, they offer better resistance to chemicals and moisture and can therefore be used for food, beverages and environmental analyses (air, soil, etc.).

Features:

- Material: paper
- Filtration speed: very slow/medium/fast/very fast
- Format/packaging: sheets

Packaging unit: pack of 100 pcs

Art. no.	Qualitative filter paper, grade QP200
6-0274	80g/m ² , very slow, 90 mm
6-0275	80g/m ² , very slow, 110 mm
6-0276	80g/m ² , very slow, 125 mm
6-0277	80g/m ² , very slow, 150 mm
6-0278	80g/m ² , very slow, 185 mm
Art. no.	Qualitative filter paper, grade QP201
6-0265	87g/m ² , medium, 90 mm
6-0266	87g/m ² , medium, 110 mm
6-0267	87g/m ² , medium, 125 mm
6-0268	87g/m ² , medium, 150 mm
6-0269	87g/m ² , medium, 185 mm
Art. no.	Qualitative filter paper, grade QP201/f
6-0270	87g/m ² folded, medium, 125 mm
6-0271	87g/m ² folded, medium, 150 mm
6-0272	87g/m ² folded, medium, 185 mm
6-0273	87g/m ² folded, medium, 240 mm
Art. no.	Qualitative filter paper, grade QP203/f
6-0261	88g/m ² folded, fast, 125 mm
6-0262	88g/m ² folded, fast, 150 mm
6-0263	88g/m ² folded, fast, 185 mm
6-0264	88g/m ² folded, fast, 240 mm
Art. no.	Qualitative filter paper, grade QP204
6-0256	80g/m ² , very fast, 90 mm
6-0257	80g/m ² , very fast, 110 mm
6-0258	80g/m ² , very fast, 125 mm
6-0259	80g/m ² , very fast, 150 mm
6-0260	80g/m ² , very fast, 185 mm

Glass Fiber Filters

Glass fiber filter, binder-free

The binder-free qpore® glass fiber filters are made of 100 % borosilicate glass. Depending on the pore size, they offer excellent retention of very small particles (down to 0.7 µm) combined with a high loading capacity. They are particularly suitable for the microfiltration of air, gases and liquids. They are temperature-stable up to 500 °C and resistant to most solvents and reagents (except hydrofluoric acid).

qpore® offers an extensive range of **transfer membranes** made of different materials for a wide variety of applications in your laboratory. All membranes are manufactured from the finest raw materials to the highest quality standards.

Cellulose Nitrate (CN) Transfer Membrane

This qpore® transfer membrane made of cellulose nitrate (CN) is 100 % pure and contains no foreign substances, enabling background-free blots with optimal bands. The 0.22 µm pore size is particularly suitable for small sample amounts < 20 kDa and ensures optimal protein binding capacity, allowing sensitive detection of the smallest amounts of protein and preventing blow-through during transfer.

Features:

- Roll dimensions: 300 x 3000 mm
- Membrane thickness approx. 150 µm ± 10 µm
- Protein binding capacity: approx. 125 µg/cm²
- Max. working temperature 356 °C

Applications:

- Western blotting
- Northern blotting
- Southern blotting
- Protein and immunoblotting



Art. no.	Transfer membrane
6-0000	CN, 0.22 µm, 300x3000 mm roll
6-0001	CN, 0.45 µm, 300x3000 mm roll
6-0049	Nitrocellulose, 100x100 mm, 0.22 µm, 100 pcs/pack
6-0050	Nitrocellulose, 100x100 mm, 0.45 µm, 100 pcs/pack

Art. no. Item description

6-0200	Glass fiber filter, binder-free, 1.6 µm, 47 mm, grade QP/GF1
6-0201	Glass fiber filter, binder-free, 1.6 µm, 55 mm, grade QP/GF1
6-0202	Glass fiber filter, binder-free, 1.6 µm, 70 mm, grade QP/GF1
6-0203	Glass fiber filter, binder-free, 1.6 µm, 90 mm, grade QP/GF1
6-0204	Glass fiber filter, binder-free, 1.6 µm, 110 mm, grade QP/GF1
6-0205	Glass fiber filter, binder-free, 1.6 µm, 125 mm, grade QP/GF1
6-0206	Glass fiber filter, binder-free, 1.6 µm, 150 mm, grade QP/GF1
6-0207	Glass fiber filter, binder-free, 1.2 µm, 25 mm, grade QP/GF2
6-0208	Glass fiber filter, binder-free, 1.2 µm, 47 mm, grade QP/GF2
6-0209	Glass fiber filter, binder-free, 1.2 µm, 55 mm, grade QP/GF2
6-0210	Glass fiber filter, binder-free, 1.2 µm, 70 mm, grade QP/GF2
6-0211	Glass fiber filter, binder-free, 1.2 µm, 90 mm, grade QP/GF2
6-0212	Glass fiber filter, binder-free, 1.2 µm, 110 mm, grade QP/GF2
6-0213	Glass fiber filter, binder-free, 1.2 µm, 125 mm, grade QP/GF2
6-0214	Glass fiber filter, binder-free, 1.2 µm, 150 mm, grade QP/GF2
6-0215	Glass fiber filter, binder-free, 1.5 µm, 47 mm, grade QP/GF3
6-0216	Glass fiber filter, binder-free, 1.5 µm, 90 mm, grade QP/GF3

Transfer Membranes

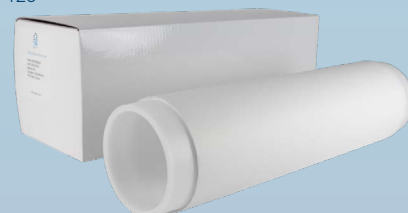
Polyvinylidene Fluoride (PVDF) Transfer Membrane

This hydrophobic qpore® transfer membrane made of polyvinylidene fluoride (PVDF) is extremely durable and resistant to chemicals. PVDF transfer membranes with a pore size of 0.22 µm are particularly suitable for Western blotting and protein dot blotting, delivering background-free blots with optimal bands. The high protein binding capacity prevents blow-through during transfer and enables the detection of even the smallest amounts of protein. Due to the strongly hydrophobic nature of PVDF, these transfer membranes must be soaked in organic solvents before the blotting process. The membranes remain highly usable even after harsh washing conditions and repeated stripping.

- Roll dimensions: 300 x 3000 mm
- Membrane thickness approx. 140-250 µm
- Protein binding capacity: approx. 125 µg/cm²

Applications:

- Western Blotting
- Protein sequencing
- Protein Dot-Blotting



Art. no.	Transfer membrane
6-0002	PVDF, 0.20 µm, 300x3000 mm roll
6-0003	PVDF, 0.45 µm, 300x3000 mm roll

Official distributor

BIONOVO
Nowodworska 7
59-220 Legnica

