

Filtration Products



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Iris offer a complete range of laboratory filtration products, from membranes to syringe filters, all glass holders, manifolds vacuum filtration, diaphragm vacuum pump, etc.

Iris membrane filters product line includes a wide selection of membrane materials for the microfiltration with pore sizes from 0.05 μm to 12 μm . Typical applications for membrane filters are cell retention, particle collection, clarification and sterile filtration of aqueous solutions, particulate analysis, microbiological analysis and epifluorescence microscopy.

Laboratory Filtration Manifold

Iris Laboratory Filtration Manifold designed to accommodate all types of filter holders with multiple vacuum outlets and funnels such as manifolds are available with spin-lock, magnetic, glass and patented stainless steel funnel holders, for applications where robust and sanitize apparatus is essential. These stainless steel filter manifold can be flame-sterilized amid specimens and sterilized with membrane in place.



We also deliver a new and compact, durable and economical manifold solution on custom designed. The choice of the right manifold and filter cup material is rely on different measure, amid others; this includes the type of application, the manifold function.

See the Iris Laboratory Filtration Manifold selection to complete a configuration precisely to conquer a laboratory's filtration requirements. We offer the best range of Autoclavable aluminum and stainless steel filtration manifold. Design to produce many samples to filtrate simultaneous. As every manifold has specific control valve.

The following categories give you how you use filtration manifold for different purpose in microbial, pharmaceutical, chemical filtration and other applications. The multi-place vacuum manifold with magnetic filter and glass filter holder. The glass filter cups are of the highest borosilicate quality and resistant to temperature differences and mechanical tolerance though under high vacuum situations.

Standard Vacuum Filtration Manifold

Standard Vacuum Filtration Manifold life science unique filtration instrument that allows you to optimize testing with aseptic and cleanliness, provide interchangeable apparatuses and connectors.



Our Standard Manifold is formed by connecting the manifold to a pump. Users can use the vacuum filtration system in combination with the corresponding membrane filters to examine a wide range of liquids for microbiological impurity. Offer manifold with the main component in microbiological quality control for any solvent samples.

Standard Vacuum Filtration Manifold IFM-1000

Standard Vacuum Filtration Manifold IFM-1000 is highly efficient and requires low maintenance, this contains flasks, and vacuum and autoclavable manifold and a waste bottle provide filters for many applications. The filtration manifold usages a patented spin-lock assembly that enables quick and stable installation without clamp.



It has been used for all kinds of liquid filtration, biological laboratories, chemical industry, microbiological detection. Our vacuum filtration manifold is designed to filter several samples simultaneous using a vacuum filtration pump. Build with elongated and funnel adaptors, excellent chemical and thermal resistance stainless steel manifolds.

- The magnetic and stainless steel funnels, the stainless steel funnels that can be flame sterilized
- Build with patented spin-lock design
- Quick, easy, and safe to service, fast-assembly and disassembly
- Requires electricity for operating
- Large capacity in small footprint, exchangeable funnel adaptor design permits user to fit their desired funnel simply
- Cost-effective high capacity system
- Available capacity 100 and 300 ml

Accessories

- Pump
- Bunsen Burner
- Manifold: Aluminum/Stainless steel
- Silicon Tube: 2 x 1m
- Waste Bottle: 3000 ml
- Filter Membrane: 0.45µm, 200 pcs
- Filter Cups: 3 x 300 ml / PES (magnetic base)/ 3 x 100 ml / Stainless steel/ 3 x 100 ml / Stainless steel / 6 x 100 ml / Stainless steel

Vacuum Filtration Manifold

Vacuum Filtration Manifold accommodates manifold along with additional accessories. Simple and easy set-up, allow simultaneous and independent filtration using standard and elongated adaptors. The vacuum manifold is designed for cleaning impurities of liquid sample and enhance throughput



Vacuum Filtration Manifold IFM-100 Series

Vacuum Filtration Manifold IFM-100 Series contain stainless steel manifold variety of filter head and standard adaptors to meet the specific application requirements and handles 9.6 cm² filtration areas with instantaneous perform capability filtration of up to 3 samples and 6 samples with the 3 and 6-stack manifold. This device is used to determine the number of cells and microbes, improving organisms productivity in a membrane filter, by offering high efficiency and quality.



- The stainless steel funnels that can be flame sterilized
- Build with patented spin-lock design
- Quick, easy and safe to service, fast-assembly and disassembly
- Requires electricity for operating
- Large capacity in small foot print, exchangeable funnel adaptor design permits user to fit their desired funnel simply
- Cost effective high capacity system

Vacuum Filtration Manifold IFM-200 Series

Vacuum Filtration Manifold IFM-200 Series provide sample separation from solvent in life sciences, chemistry, and pharmaceutical quality control. This contains stainless steel filter flasks, elongated adaptors and vacuum and stainless steel manifold. The manifold can be simply detached for cleaning and autoclaving made of stainless steel, which can be fast sterilized by flame. Used in solid suspension separation, microbes' separation by membrane filter technique.



- The stainless steel funnels that can be flame sterilized
- Build with patented spin-lock design
- Quick, easy and safe to service, fast-assembly and disassembly
- Requires electricity for operating
- Large capacity in small foot print, exchangeable funnel adaptor design permits user to fit their desired funnel simply
- Cost-effective high capacity system
- Available capacity 100, 300, and 500 ml and stainless steel funnel

Vacuum Filtration Manifold IFM-300 Series

Vacuum Filtration Manifold IFM-300 Series provides independent control in every branch for the vacuum and venting process. Connect 3 and 6 filters vessels to one vacuum source. This contains flasks, filter cup adaptors, and vacuum and autoclavable manifold and provides filters for many applications. The filtration manifold usages a patented spin-lock assembly that enables quick and stable installation without a clamp. It has been used for all kinds of liquid filtration, biological laboratories, chemical industry, microbiological detection.



- The stainless steel funnels that can be flame sterilized
- Build with patented spin-lock design
- Quick, easy and safe to service, fast-assembly and disassembly
- Requires electricity for operating
- Large capacity in small footprint, exchangeable funnel adaptor design permits user to fit their desired funnel simply
- Cost-effective high capacity system
- Available capacity 100, 300 and 500 ml
- Accessories: stainless steel manifold, 3 x 100/300/500 ml Stainless Steel Filter Cups and 6 x 100/300/500 ml Stainless Steel Filter Cups

Vacuum Filtration Manifold IFM-400 Series

Vacuum Filtration Manifold IFM-400 Series simply contain vacuum filtration stainless steel filter flasks standard and elongated adaptors, and aluminum manifold. These new multi-branch manifolds allow easy and quick serial filtration. This series is useful, effective, and efficient for the operator who needs to filter different samples simultaneously. Available in 3 branch manifold.



- The stainless steel funnels that can be flame sterilized
- Build with patented spin-lock design
- Quick, easy, and safe to service, fast-assembly and disassembly
- Requires electricity for operating
- Large capacity in small footprint, exchangeable funnel adaptor design permits user to fit their desired funnel simply
- Cost-effective high capacity system
- Available capacity 100, 300 and 500 ml

Multi-Place Vacuum Manifold

Multi-Place Vacuum Manifold available in 3 and 6 branches with an option of glass and magnetic funnels. Build-in a separate valve to filter multiple samples simultaneously, easy to use, and sanitize with a high-efficiency filter system. The multi-place vacuum manifold with a magnetic filter and glass filter holder.



Multi-Place Vacuum Manifold IFM-1000 Series

Multi-Place Vacuum Manifold IFM-1000 Series designed with a magnetic filter cup, funnel adaptors along with aluminum and long lasting stainless steel manifold, magnetic filter cup. We provide advanced Magnetic cup, one-handed vacuum filtration of liquids. The convenient capacities are 150 mL size allows for easy fit into small autoclaves and 300 ml, and 500 ml size is ideal for filtration of large samples. The magnets ensure a close-fitting, best sealing between the funnel cylinder and base, reducing the need for clamps.



- The magnetic and stainless steel funnels, the stainless steel funnels that can be flame sterilized
- Build with patented spin-lock design
- Quick, easy and safe to service, fast-assembly and disassembly
- Requires electricity for operating
- Large capacity in small foot print, exchangeable funnel adaptor design permits user to fit their desired funnel simply
- Cost-effective high capacity system
- Available capacity 150, 300 and 500 ml magnetic funnel

Multi-Place Vacuum Manifold IFM-2000 Series

Multi-Place Vacuum Manifold IFM-2000 Series with glass filters filter cups holder assemblies for the microanalysis of liquids for biological or particulate contamination under vacuum. The 47 mm or 50 mm holder for microbiology and uses a 47 mm filter membrane. The anodized aluminum or stainless manifold secures the membrane between the funnel and glass base. The glass filter cups are of the highest borosilicate quality and resistant to temperature differences and mechanical tolerance though under high vacuum situations.



- The Borosilicate Glass and stainless steel funnels, the stainless steel funnels that can be flame sterilized
- Excellent pressure resistance and can be recycled for autoclaving under high temperature and pressure
- Build with patented spin-lock design
- Quick, easy and safe to service, fast-assembly, and disassembly
- Requires electricity for operating
- Large capacity in small footprint, exchangeable funnel adaptor design permits user to fit their desired funnel simply
- Cost-effective high capacity system
- Available capacity 150, 300 and 500 ml glass funnel

Syringe Filters

Iris Syringe Filters are used for small volume filtration of liquids, gas and other material-specific applications. They are made of extractable free virgin polypropylene housings with female luer lock and male luer slip fittings.



New sealing ring design makes itself for high operating pressure and faster filtration. They are produced to exceptional quality standards and eliminate common problems such as leaks and filter 'blow off'. Colour ring help identify membrane type inside easily. These syringe filters are ideal for applications in pharmaceutical, environmental, biotechnology, food, beverage and agricultural testing laboratories, used in industries like bioscience, pharmacy, microelectronics, chemistry, food & beverage, etc.

Iris Syringe Filters are available in the material of Nylon, MCE, CA, CN, PES, PVDF, PTFE, PP, Glass Fiber, with pore size ranging from 0.1µm to 10µm

Iris Syringe Filters are syringe-operated filters for the clarification of aqueous solutions (column elutes, tissue culture additives, HPLC samples, etc.). It is further to do the beautification appearance on general syringe filters basis and containing high quality membrane materials to make your experiment performance more perfect. Its design of colour coding, make the products more beautiful and innovative. The classic range is available in all of the major membranes including Nylon, PTFE, PVDF, CA and PES, which are supplied in 13mm, 25mm, 30mm formats in polypropylene housings.

- Easy to identify- the colour coded band on housing clearly indicates the membrane material
- Pressure rated - to 90psi for unsurpassed integrity
- Sealing ring - minimizes bursting and leakage
- Pore size of filter media are available from 0.22µm, 0.45µm
- Universal luer lock/luer slip design for versatility and maximum operational safety
- Chemically resistant - polypropylene housing
- Maximum filtration area - ensure uniformity and speed due to sample distribution rings
- Low extractable levels - generate interference free data
- Unequivocal reproducibility across all filters and lots
- Colour coding: Easier to tell the filter membrane
- Better membrane media: Improved membrane flow rates
- Application Compatibility: Broad range of filtration media meets diverse application needs and best for chromatography application
- Sterile: Filters can be purchased pre-sterilized by Gamma radiation and individually packaged

Validated HPLC Performance

- HPLC certification which guarantees the filters will not produce extraneous peaks in the UV range.
- 100% integrity tested with higher burst strength ratings assuring they will perform consistently.
- Available in 13 and 25mm sizes and available in sterile, too.

- 0.45µm for most clarification applications and 0.22µm when fine particulate removal is required. Other pore size are available in 0.8 µm to 5µm.

Application

- HPLC sample preparation
- Routine QC analysis
- Content uniformity
- Removal of protein precipitate
- Dissolution testing
- Food analysis
- Bioscience analysis
- Environmental samples

Type	Nylon/PTFE/PES/PVDF/PTFEL/PVDF L		
Diameter	13mm	25mm	30mm
Pore Size	0.22µm, 0.45µm		
Effective Filtration Area(cm ²)	1.09	4.08	5.39
Maximum Pressure	87psi (6.0 bar) at 20 ° C	87psi (6.0 bar) at 20 ° C	87psi (6.0 bar) at 20 ° C
Maximum Operating Temp.	50° C	50° C	50° C
Materials of Construction	Housing: Polypropylene	Housing: Polypropylene	Housing: Polypropylene
Filtration Media	As specified		
Holdup volume (p l)	<25	<100	<200
Sample volume (ml)	<10	<100	<200
Connectors	Inlet: Female Luer Lock Outlet: Male Slip Luer	Inlet: Female Luer Lock Outlet: Male Slip Luer	Inlet: Female Luer Lock Outlet: Male Slip Luer
Flow Direction	Inlet: Female Luer Lock Outlet: Male Slip Luer	Inlet: Female Luer Lock Outlet: Male Slip Luer	Inlet: Female Luer Lock Outlet: Male Slip Luer
Sterilisation	Autoclave at 121° at 1 bar for 20 minutes/EO/Gamma		

Nylon Syringe Filters

Hydrophilic Nylon membranes are suitable for filtering aqueous solutions and most organic solvents. It is ideal for HPLC, GC or dissolution sample analysis and widely used in most biological preparations, Electric semiconductor, industrial water filtration, chemicals filtration, drinks filtration. Nylon is an extremely clean and strong membrane with very low extractable levels and is a good 'workhorse' membrane choice where acidic samples are not involved.



It is designed with disc membrane that guarantees exceptional integrity when filtering some sample. Then through into non-gap sealing, virgin medical PP material is placed to contain all the disc membrane. It has superior performance to prevent leak of sample solvent and can promise membrane area being used in a large filtration area.

- Nylon is a very pure hydrophilic membrane with very low levels of extractables
- Standard 1µm pre-filter providing increased sample handling capacity
- Able to filter solutions at temperatures up to 100°C
- Autoclave at 121°C at 1 bar for 20 minutes/EO/Gamma
- Nylon Syringe Filters are a good choice for most general laboratory filtration, as well as filtration of most HPLC samples

Applications:

- Filtration and clarification of small volumes
- Sterilisation of aqueous and dilute organic solvents
- HPLC sample preparation
- Biological sample preparation

Ordering Information

Model	Pore Size	Diameter	Pack Size
IAS13NY022	Pore:0.22µm	Diameter: 13mm	100
IAS13NY045	Pore:0.45µm	Diameter: 13mm	100
IAS25NY022	Pore:0.22µm	Diameter: 25mm	100
IAS25NY045	Pore:0.45µm	Diameter: 25mm	100
IAS30NY022	Pore:0.22µm	Diameter: 30mm	100
IAS30NY045	Pore:0.45µm	Diameter: 30mm	100

Non-Sterile Nylon Syringe Filters

Sterile Nylon Syringe Filters

PES Syringe Filters

Hydrophilic PES membranes have very low protein binding and high flow characteristics. Use with strong bases, alcohols, proteins, peptides. As it is resistant to a wide range of solvents and is recommended for life science and pharmaceutical applications.



PES is a hydrophilic membrane that has very low protein binding and high flow characteristics membrane. PES syringe filters are available in 3 sizes, 13mm, 25mm and 30mm diameters

Features

- Very low protein binding and extractables
- High flow filtration volume
- Standard 1µm pre-filter for optimal performance with particulate-laden analyses
- Able to filter solutions at temperatures up to 100°C
- Autoclave at 121°C at 1 bar for 20 minutes/EO/Gamma
- Use with strong bases, alcohols, proteins and peptides

Applications

- Purification and sterilisation of aqueous solutions and biological samples
- Protein and Enzyme filtration sterilisation
- IC chromatography
- Cell Culture
- Tissue culture media sterilisation

Ordering Information

Item	Description	Pore Size	Diameter	Packaging (pcs/pk)
IAS13PES022	PES Syringe Filters	0.22µm	13mm	100
IAS13PES045	PES Syringe Filters	0.45µm	13mm	100
IAS25PES022	PES Syringe Filters	0.22µm	25mm	100
IAS25PES045	PES Syringe Filters	0.45µm	25mm	100
IAS30PES022	PES Syringe Filters	0.22µm	30mm	100
IAS30PES045	PES Syringe Filters	0.45µm	30mm	100

Non-Sterile PES Syringe Filters



Sterile PES Syringe Filters

PTFE Syringe Filters

The PTFE membrane Syringe Filters are classified in two categories, hydrophobic and hydrophilic as PTFE membrane has two different properties.



The Hydrophobic membrane is chemically resistant to all solvents, acids and bases. The membrane is very low in extractables and has an excellent thermal stability.

The hydrophilic membrane is compatible with water solution. Hydrophilic PTFE membrane is unsupported membrane that ideal for HPLC and mixtures of aqueous and organic solvents. Unsupported membrane means non-reinforced, single-ply thin membrane which has no support ability.

PTFE syringe filters are available in 3 sizes, 13mm, 25mm and 30mm diameters.

Applications

- Hydrophilic Syringe filter
- Lowest level of IC extractables
- Broad chemical compatibility and flexibility in lab
- Optimizing background levels in sensitive IC analyses
- Standard 1µm pre-filter for optimal performance with particulate laden analyses

Features

- Lowest level of IC extractables, optimizing background levels in sensitive IC analyses
- Standard 1µm pre-filter for optimal performance with particulate-laden analyses
- Compatible with both aqueous and organic solutions, offering broad chemical compatibility and flexibility in the lab
- Able to filter solutions at temperatures up to 100°C
- Autoclave at 121°C at 1 bar for 20 minutes/EO/Gamma
- Good choice for Ion Chromatography

PTFE Syringe Filter (Hydrophobic)

Item	Description	Pore Size	Diameter	Packaging (pcs/pk)
IAS13PTFE022H	Hydrophobic PTFE Syringe Filter	0.22µm	13mm	100
IAS13PTFE045H	Hydrophobic PTFE Syringe Filter	0.45µm	13mm	100
IAS25PTFE022H	Hydrophobic PTFE Syringe Filter	0.22µm	25mm	100
IAS25PTFE045H	Hydrophobic PTFE Syringe Filter	0.45µm	25mm	100
IAS30PTFE022H	Hydrophobic PTFE Syringe Filter	0.22µm	30mm	100
IAS30PTFE045H	Hydrophobic PTFE Syringe Filter	0.45µm	30mm	100

PTFE Syringe Filter (Hydrophilic)

Item	Description	Pore Size	Diameter	Packaging (pcs/pk)
IAS13PTFE022L	Hydrophilic PTFE Syringe Filter	0.22µm	13mm	100
IAS13PTFE045L	Hydrophilic PTFE Syringe Filter	0.45µm	13mm	100
IAS25PTFE022L	Hydrophilic PTFE Syringe Filter	0.22µm	25mm	100
IAS25PTFE045L	Hydrophilic PTFE Syringe Filter	0.45µm	25mm	100
IAS30PTFE022L	Hydrophilic PTFE Syringe Filter	0.22µm	30mm	100
IAS30PTFE045L	Hydrophilic PTFE Syringe Filter	0.45µm	30mm	100



Sterile PTFE Syringe Filters

CA Syringe Filters

Iris Hydrophilic Cellulose Acetate Syringe Filter Filters Using one of the best membrane inside and manufactured in 100,000 class cleaning room assure you of high quality.



Cellulose Acetate is a hydrophilic and a very low protein binding membrane that is ideal for aqueous based samples. The membrane is an excellent choice when maximum protein recovery in the filtrate is critical.

It is imported from some leading company who is well known in producing membrane. CA syringe filter has 3 kind of diameters, 13mm, 25mm and 30mm.

Hydrophilic CA (Cellulose Acetate) is well suited for use with aqueous based solutions and is the best choice when maximum protein recovery in the filtrate is critical.

Features

- Low protein binding, suitable for aqueous protein solution
- Standard 1µm pre-filter providing increased sample handling capacity
- High flow rates and thermal stability
- Very low absorption
- Able to filter solutions at temperatures up to 100°C
- Nitrate-free suitable for groundwater filtration
- Autoclave at 121°C at 1 bar for 20 minutes/EO/Gamma

Applications

- HPLC Sample Preparation
- Biological Sample Preparation
- Protein and Enzyme filtration
- Cell culture
- Clarification of aqueous and alcohol solutions

CA Syringe Filter (Cellulose Acetate) Ordering Information

Item	Description	Pore Size	Diameter	Packaging (pcs/pk)
IAS13CA022	CA (Cellulose Acetate) Syringe Filter	0.22µm	13mm	100
IAS13CA045	CA (Cellulose Acetate) Syringe Filter	0.45µm	13mm	100
IAS25CA022	CA (Cellulose Acetate) Syringe Filter	0.22µm	25mm	100
IAS25CA045	CA (Cellulose Acetate) Syringe Filter	0.45µm	25mm	100
IAS30CA022	CA (Cellulose Acetate) Syringe Filter	0.22µm	30mm	100
IAS30CA045	CA (Cellulose Acetate) Syringe Filter	0.45µm	30mm	100



Non-Sterile CA Syringe Filters

Sterile CA Syringe Filters

MCE Syringe Filters

Hydrophilic MCE membranes are biologically inert mixture of Cellulose Acetate and Cellulose Nitrate membranes which have higher protein binding than CA for most proteins. High porosity provides high flow rate.



The membrane is a hydrophilic and compatible with water solution and aqueous based samples. The MCE syringe filters are available in three diameters; 13mm, 25mm and 30mm. Available pore sizes are 0.1µm, 0.22µm, 0.45µm, 0.8µm, 1.0µm, 3.0µm and 5.0µm

It is cut into some disc membrane that guarantee exceptional integrity when filtering some sample. Then through into non-gap sealing, virgin medical PP material is placed to contain all the disc membrane.

It has superior performance to prevent leak of sample solvent and can promise membrane area being used in a large filtration area.

Features

- Better hydrophilicity, very low protein binding
- Great water flux and better cutoff effect *Standard 1µm pre-filter for optimal performance with particulate-laden analyses
- Able to filter solutions at temperatures up to 100°C
- Lower chemical resistance
- Autoclave at 121°C at 1 bar for 20 minutes/EO/Gamma
- Ideal for aqueous based samples, tissue culture and sensitive biological samples

Application

- Clarifying or sterilising aqueous solutions
- Gas particulate and bacteria filtration
- Oil particulate and bacteria filtration
- Alcohol particulate and bacteria filtration
- Other solvent particulate and bacteria filtration

Non-Sterile MCE Syringe Filters



Sterile MCE Syringe Filters

PVDF Syringe Filters

PVDF Syringe Filters





Non-Sterile PVDF Syringe Filters

Sterile PVDF Syringe Filters

Membrane Filters

Membrane filtration is one kind of physical filtration process where a contaminated fluid is passed through a special pore size membrane to separate micro-organisms and suspended particles from process liquid or gas. The typical pore size used for micro-filtration ranges from about 0.1 to 10um.



Membrane filters or membranes are microporous films with specific pore size ratings. Membranes retain particles and microorganisms that exceed their pore ratings by acting as a physical barrier and capturing such particles on the surface of the membrane.

Iris Analytical offers membrane discs in diameters from 13mm to 293mm and materials including PES , PVDF , PTFE , MCE , Nylon , PP , CA CN and GF membrane filters.

Applications

- General clean and filtration
- Sample Preparation
- Environmental Monitoring and Analysis
- Filtration of Aqueous and Organic Solutions
- Fluid Monitoring
- Pharmaceutical Products Analysis
- Chromatography and Mass Spec Sample Preparation
- Venting and Gas Filtration

Membrane Type	Pore Size(um)	Diameter(mm)
PES	0.1-1.0	13, 25,37,47,90,142,293
MCE	0.1-8.0	13,25,37,47,90,142, 293
NYLON	0.1- 10.0	13,25,37,47,90,142,293
PVDF	0.1-0.45	13,25,37,47,90,142,293
PTFE	0.1 -5.0	13,25,37,47,90,142,293
PP	0.22-20.0	13,37,47,90,125,142,293
CA	0.22-8.0	13,25,37,47,90,142,293
Nylon Mesh	20-180	25,47,90, 30cm×3m
PC	0.1-8.0	13,25,37,47,90,142

Mixed Cellulose Esters (MCE) Membrane Filter

Mixed Cellulose Ester (MCE) membrane filters are composed of cellulose acetate and cellulose nitrate. Because MCE membrane is biologically inert, it's widely used in analytical and research applications. MCE membrane filter is characterized by smoother and more uniform surface than pure nitrocellulose filter. Also, the color contrast provided by the filter surface facilitates particle detection and minimizes eye fatigue.



Many microbiological techniques include colony counting after incubation as the standard method of quantification. Gridded filters have clearly defined grid lines spaced at 3.1 mm intervals. The special ink used is nontoxic and completely free from bacterial growth inhibitors. White gridded disks are designed for the recovery and retention of E. Coli bacteria in water/waste-water analysis as well as other microbiological tests. Black mixed cellulose esters(MCE) are available plain for automatic colony counting applications, as well as gridded to assist in manual counting procedures. Black MCE membranes provide contrast between residue or cell colors and the filter without having to counter-stain the membrane.

Application	Color	Pore Size(μm)
Microdialysis of DNA and proteins	White	0.1
Sterilizing filtration, bioassays	White	0.22
Sterilizing filtration, air monitoring, particle monitoring, particle removal, bioassays	White	0.3
Clarification of aqueous solutions, particle removal and analysis, microbiology analysis	White	0.45
Fluorescent bacteriological assays, particle monitoring, bioassays	Black	0.45
Particle monitoring, particle removal, dairy microbiology, retention of yeasts, molds and algae	White	0.65
Air monitoring, particle monitoring, particle removal, bioassays	White	0.8
Fluorescent assays, particle monitoring, air monitoring	Black	0.8
Clarification of aqueous solutions	White	1
QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection and analysis	White	3
QC of fluid holding tanks, fluid monitoring, particle collection and analysis	White	5
QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection and analysis	White	8

