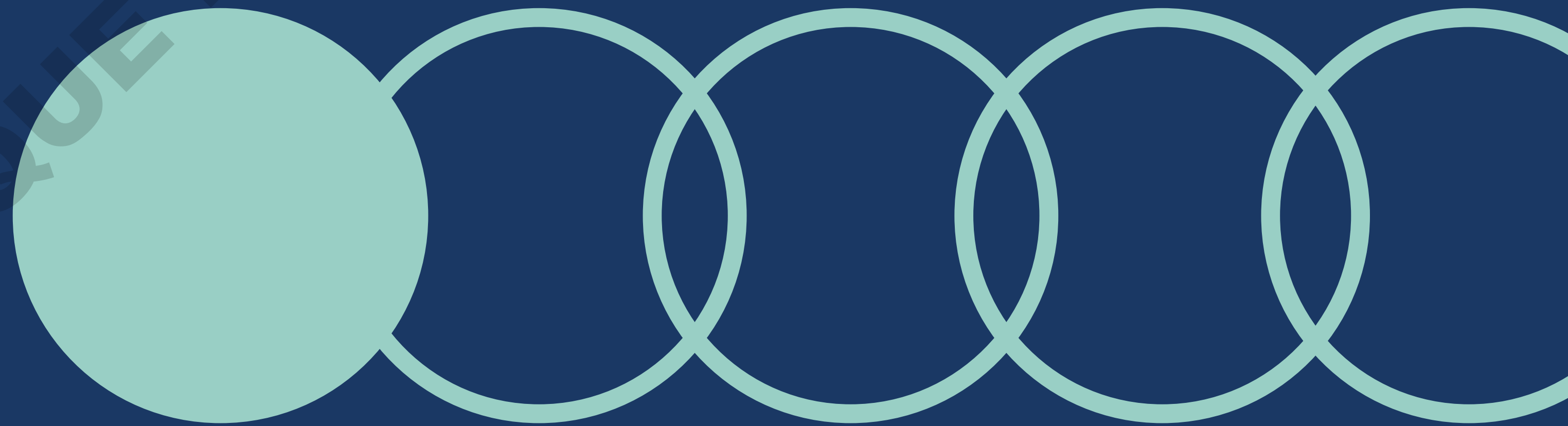


Filtration for water testing

DOMINIQUE DUTSCHER SAS



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Physical analysis

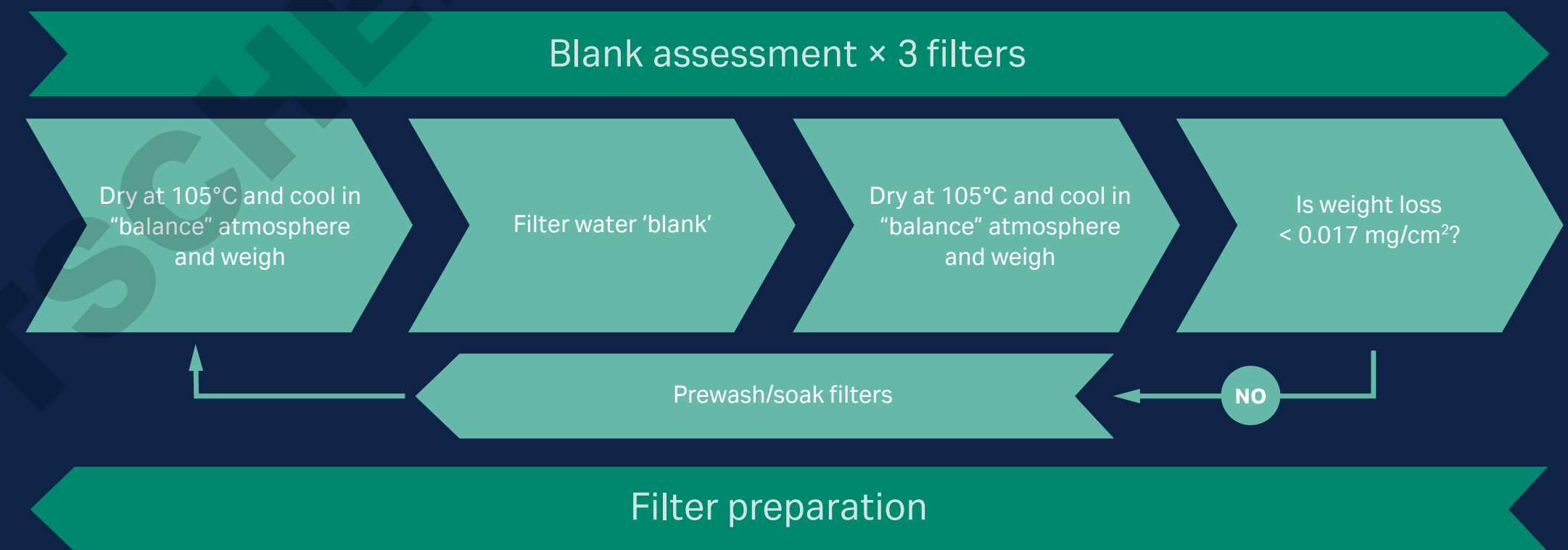
Increase accuracy while saving time in water analysis with the Whatman Ready-to-use filter family

Maintaining accuracy under the time pressure of a busy lab can be a challenge. The Whatman™ ready-to-use (RTU) filter family from Cytiva is certified to have been pre-treated in line with key requirements for sample preparation, helping you to support an accurate analysis while reducing time spent on sample preparation.



Filter preparation workflows

EN872



Standard Method 2540



	GF/C™ RTU	934-AH™ RTU for suspended and dissolved solids	934-AH RTU for volatiles	934-AH RTU double weigh
Pre-washed, dried, cooled, and weighed	•	•	•	•
Barcoded aluminum pans to download filter weight	•	•	•	•
Box barcoded to download weights of all filters contained	•	•	•	•
Pre-fired at 550°C			•	
Drying and weighing steps repeated and documented twice to conform to process in US EPA Lab Standard Method 2540 parts C and D				•
Certified filter mass loss the lesser of 0.5 mg or 4% after Standard Method 2540 parts C and D preparatory workflow		•	•	•
Certified mass loss of less than 0.017 mg/cm ² after EN 872 preparatory workflow	•			
Economy option available (washed and dried without weighing or barcoding)	•	•	•	

DOMINIQUE DUTSCHER CAS

Ordering information

Standard (non-RTU) glass microfiber filters

Description	Diameter (mm)	Product code
934-AH (1.5 µm retention efficiency)	42.5	1827-042
	47	1827-047
	55	1827-055
	70	1827-070
	90	1827-090
GF/C (1.2 µm retention efficiency)	42.5	1822-042
	47	1822-047
	55	1822-055
	70	1822-070
	90	1822-090

RTU for dissolved and suspended solids

934-AH RTU for dissolved and suspended solids	42.5	9907-042
	47	9907-047
	55	9907-055
	70	9907-070
	90	9907-090
34-AH RTU economy (non-weighed)	47	2827-047
934-AH RTU weighed to 5 decimal places	47	9907-9436

GF/C RTU for dissolved and suspended solids	47	3822-047
	70	3822-070
	90	3822-090
GF/C RTU economy (not weighed)	47	2822-047
	70	2822-070
	90	2822-090

RTU for volatile analysis

Description	Diameter (mm)	Product code
934-AH	35	3827-035
	42.5	3827-042
	47	3827-047
	70	3827-070
	90	3827-090
934-AH RTU for volatiles economy (not weighed)	35	4827-035
	42.5	4827-042
	47	4827-047
	70	4827-070
	90	4827-090

RTU double weigh

934-AH RTU double weigh	47	9927-047
	70	9927-070
	90	9927-090



Chemical analysis

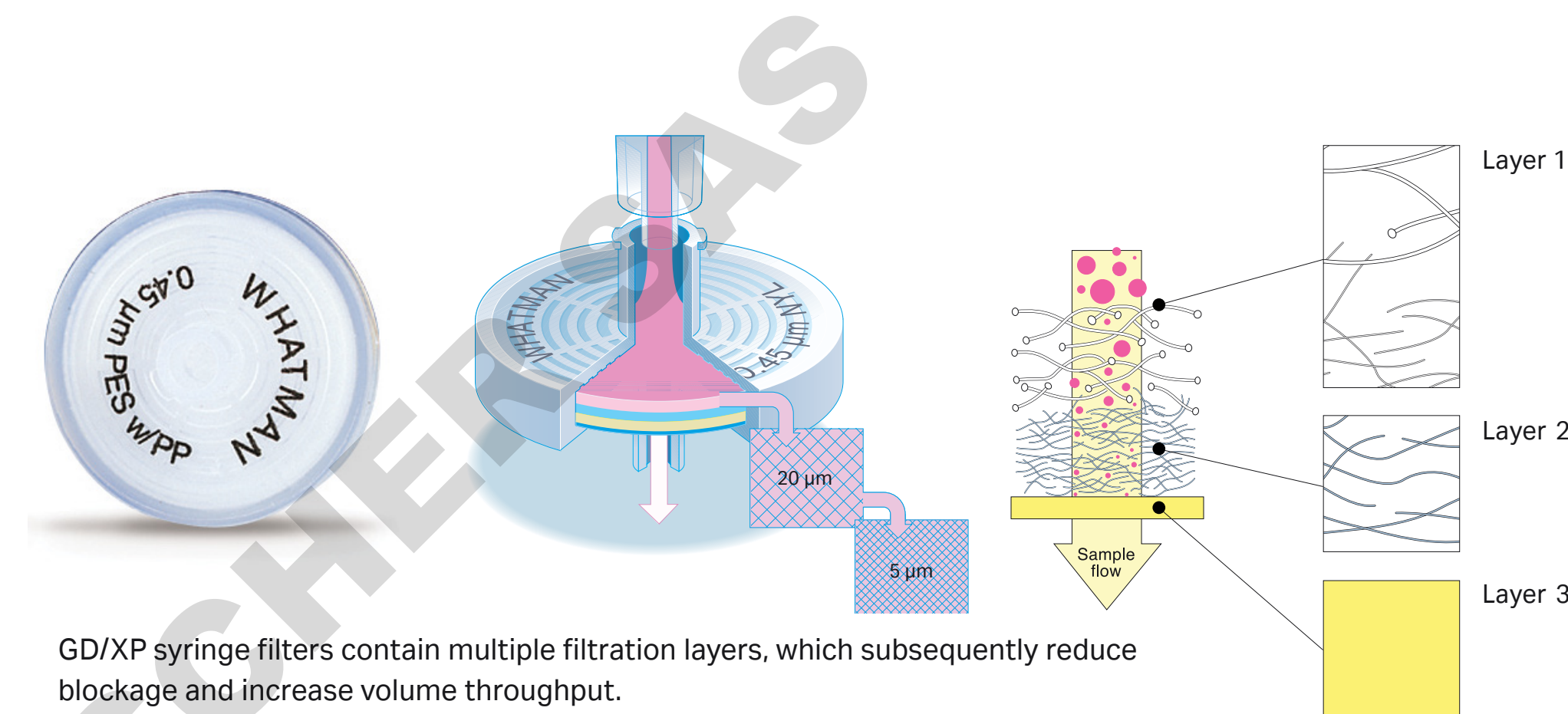
Dissolved heavy metals

Chemical analyses are commonly performed using analytic instrumentation. Filtration of water samples prior to analysis is good practice in order to remove unwanted particles from the analysis and to protect delicate instrumentation from potentially damaging compounds.

Accurate analysis of heavy metals such as lead or mercury depends on not introducing any interference into the sample from consumables used in the analytical preparation process. Water samples are often high in particulate matter, which can present filtration challenges because the particulates can readily block membrane filters. Traditionally, a glass fiber pre-filter has been used to alleviate this problem. However, filters containing some types of glass fiber can introduce trace metals into the sample. To avoid potential sample contamination, Cytiva offers a syringe filter that incorporates an effective pre-filter composed of polypropylene rather than glass fiber.

GD/XP syringe filters

GD/XP syringe filters can be used with samples that require inorganic ion analysis (e.g., trace metal analysis using inductively coupled plasma-mass spectrometry [ICP-MS]).



GD/XP syringe filters contain multiple filtration layers, which subsequently reduce blockage and increase volume throughput.

What are you testing for?	Product	Characteristics and benefits
Dissolved heavy metals	GD/XP syringe filters, 25 mm (filtration in the lab) Ordering information p. 7	<ul style="list-style-type: none"> Pre-filter made of polypropylene for minimization of ion extractables Integrated prefiltration with a dual-layer prefilter stack and one final 0.45 µm membrane Easy filtration of hard-to-filter samples Filtration of larger sample volumes compared to filters without pre-filters
	Polydisc GW and Polycap GW in-line filters (filtration in the field) Ordering information p. 7	<ul style="list-style-type: none"> Integrated prefilter Easy filtration of hard-to-filter samples Filtration of larger sample volumes compared to filters without pre-filters



Polycap GW (left) and Polydisc GW (right) are designed for sample preparation of ground water samples for the analysis of dissolved heavy metals.

Ordering information

GD/XP syringe filters

Membrane type	Nylon	PVDF	PP	PES	
Pore size (µm)	Product code	Product code	Product code	Product code	Quantity
0.45	6970-2504	6972-2504	6992-2504	6994-2504	150/pack
0.45	6971-2504	6973-2504	6993-2504	6995-2504	1500/pack


In-line filters

Quantity	1/pack	100/pack	20/pack	50/pack
Product	Product code	Product code	Product code	Product code
Polydisc GW Filter 50 mm, nylon with quartz fiber prefilter, 0.45 µm	-	-	10463400	10463401
Polycap GW 75, 0.45 µm, PES membrane	6714-6004	6724-6004	-	-



Dissolved ions

Filters for sample preparation prior to ion chromatography testing should feature very low levels of anion leaching.

What are you testing for?	Product	Characteristics and benefits
Dissolved ions	Anotop™ IC syringe filters 	<ul style="list-style-type: none"> Contain a proprietary alumina-based Anopore™ membrane that exhibits very low levels of anion leaching (e.g., fluoride, sulfide, nitrate, nitrite) during ion chromatography (IC) testing Pigment-free PP housing to eliminate sample contamination Flexibility — available in either 10 mm or 25 mm diameter Certified and guaranteed low levels of anion leaching

Ordering information


Anotop IC syringe filters

Membrane/pore size	Diameter	Quantity	Product code
Aluminum oxide — 0.2 µm	10 mm	100/pack	6909-9233
Aluminum oxide — 0.2 µm	10 mm	200/pack	6809-9234
Aluminum oxide — 0.2 µm	25 mm	200/pack	6809-9244

Dissolved organic carbons

Organic matter content is usually measured as dissolved organic carbon (DOC), which is an important component of the carbon cycle. DOC is defined as the organic matter that is able to pass through a filter, typically one with a 0.45 µm pore size.

Puradisc Aqua syringe filters are specifically designed for filtration of environmental samples prior to DOC analysis.





What are you testing for?	Product	Characteristics and benefits
Dissolved organic carbons	Puradisc Aqua 30 syringe filters 	<ul style="list-style-type: none"> Contain prewashed membranes (prior to assembly) to reduce organic carbon level and ensure low background Designed for aqueous samples Hydrophilic cellulose acetate membrane, 30 mm diameter



Ordering information

Puradisc Aqua syringe filters

Membrane/pore size	Diameter	Quantity	Product code
Cellulose acetate — 0.45 µm	30 mm	50/pack	10462656
Cellulose acetate — 0.45 µm	30 mm	100/pack	10462655
Cellulose acetate — 0.45 µm	30 mm	500/pack	10462650

HPLC, UHPLC, and other analytical techniques

What are you testing for?	Product	Characteristics and benefits
Low solids content	Puradisc Ordering information p. 10 	<ul style="list-style-type: none"> Wide range of membranes, pore sizes and diameters Pre-filter: no Diameter: 4, 13, 25, or 30 mm Available pore sizes: 0.1, 0.2, 0.45, 0.8, 1.0, 1.2, 5 µm Membrane materials available: Cellulose acetate, nylon, PES, PVDF, PP, PTFE, GF
	SPARTAN™ Ordering information p. 10 	<ul style="list-style-type: none"> HPLC certified Pre-filter: no Diameter: 13 or 30 mm Available pore sizes: 0.2 or 0.45 µm Membrane materials available: Regenerated cellulose
Hard-to-filter samples	Whatman GD/X™ Ordering information p. 11 	<ul style="list-style-type: none"> For hard-to-filter samples Pre-filter: multilayer glass filter Diameter: 13 or 25 mm Available pore sizes: 0.2, 0.45, 0.7, 1.0, 1.2, 1.5, 2.7, 5.0 µm Membrane materials available: Cellulose acetate, nylon, PES, PVDF, PP, PTFE, RC
	GD/XP Ordering information p. 11 	<ul style="list-style-type: none"> For hard-to-filter samples where analytes of interest are inorganic ions Pre-filter: Multilayer polypropylene Diameter: 25 mm Available pore sizes: 0.45 µm Membrane materials available: Nylon, PES, PVDF, PP, PTFE

What are you testing for?	Product	Characteristics and benefits
HPLC/GC autosamplers	Mini-UniPrep™ Ordering information p. 12 	<ul style="list-style-type: none"> All-in-one filter and plastic autosampler vial Pre-filter: no Dimensions: Once compressed equivalent to 12 mm × 32 mm vial Available pore sizes: 0.2 or 0.45 µm Membrane materials available: PTFE, RC, Nylon, PVDF, PES, PP, GMF
	Mini-UniPrep G2 Ordering information p. 12 	<ul style="list-style-type: none"> All-in-one filter and glass autosampler vial Pre-filter: no Dimensions: Once compressed equivalent to 12 mm × 32 mm vial Available pore sizes: 0.2 or 0.45 µm Membrane materials available: PTFE, Nylon, PVDF, PP, GMF, RC

RC = regenerated cellulose, PVDF = polyvinylidene difluoride, PTFE = polytetrafluoroethylene, PP = polypropylene, PES = polyethersulfone, GMF = glass microfiber filter, GF = glass fiber, CA = cellulose acetate

Regenerated cellulose membranes

Suitable for filtration of both aqueous and organic samples.

We offer a range of filters for sample preparation for commonly used analytical techniques in water monitoring such as:

- HPLC or UHPLC
- Continuous flow analysis
- Gas chromatography (GC)

Ordering information – chemical analysis of water

Puradisc syringe filters

Membrane type/ diameter	Nylon 25 mm	PVDF 25 mm	PTFE 25 mm	PP 25 mm	PES 25 mm	CA 30 mm	
Pore size	Product code	Product code	Product code	Product code	Product code	Product code	Quantity
0.2 µm	6751-2502	6747-2502	6785-2502	6788-2502	6781-2502	10462710	100/pack
0.2 µm	6753-2502	–	6798-2502	6790-2502	6794-2502	10462700	500/pack
0.45 µm	6751-2504	6747-2504	6785-2504	6788-2504	6781-2504	10462610	100/pack
0.45 µm	6753-2504	6749-2504	6798-2504	6790-2504	6794-2504	10462600	500/pack

SPARTAN syringe filters

Diameter		13 mm	13 mm with mini-tip	30 mm	
Membrane	Pore size	Product code	Product code	Product code	Quantity
Regenerated cellulose	0.2 µm	10463100	10463040	10463060	100/pack
Regenerated cellulose	0.2 µm	10463102	10463042	10463062	500/pack
Regenerated cellulose	0.45 µm	10463110	10463030	10463050	100/pack
Regenerated cellulose	0.45 µm	10463112	10463032	10463052	500/pack

GD/X syringe filters (glass fiber prefilter), 25 mm diameter

Membrane type	Nylon	PVDF	PTFE	PP	PES	CA	RC	
Pore size	Product code	Product code	Product code	Product code	Product code	Product code	Product code	Quantity
0.2 µm	6870-2502	6872-2502	6874-2502	6878-2502	6876-2502	6880-2502	6887-2502	150/pack
0.2 µm	6871-2502	6873-2502	6875-2502	–	6905-2502	–	–	1500/pack
0.45 µm	6870-2504	6872-2504	6874-2504	6878-2504	6876-2504	6880-2504	6882-2504	150/pack
0.45 µm	6871-2504	6873-2504	6875-2504	6879-2504	6905-2504	6881-2504	6883-2504	1500/pack

GD/XP syringe filters (polypropylene prefilter), 25 mm diameter

Membrane type	Nylon	PVDF	PTFE	PP	PES	
Pore size	Product code	Product code	Product code	Product code	Product code	Quantity
0.45 µm	6970-2504	6972-2504	6974-2504	6978-2504	6994-2504	150/pack
0.45 µm	6971-2504	6973-2504	–	6993-2504	6995-2504	1500/pack

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Mini-UniPrep with polypropylene housing

Membrane type			PTFE	PVDF	Nylon	PP	RC	PES	
Pore size	Housing	Cap	Product code	Product code	Product code	Product code	Product code	Product code	Quantity
0.2 µm	Translucent	Standard	UN203NPEORG	UN203NPEAQU	UN203NPENYL	UN203NPEPP	UN203NPERC	UN203NPEPES	100/pack
0.45 µm	Translucent	Standard	UN203NPUORG	UN203NPUAQU	UN203NPUNYL	UN203NPUPP	UN203NPURC	UN203NPUPES	100/pack
0.2 µm	Amber	Standard	UN203APEORG	UN203APEAQU	UN203APENYL	UN203APEPP	–	UN203APEPES	100/pack
0.45 µm	Amber	Standard	UN203APUORG	UN203APUAQU	UN203APUNYL	UN203APUPP	–	UN203APUPES	100/pack
0.2 µm	Translucent	Slit septum	US203NPEORG	US203NPEAQU	US203NPENYL	US203NPEPP	–	US203NPEPES	100/pack
0.45 µm	Translucent	Slit septum	US203NPUORG	US203NPUAQU	US203NPUNYL	US203NPUPP	–	–	100/pack

Mini-UniPrep G2 with inner glass storage vial (hand or multicompressor required for use)

Membrane type			PTFE	PVDF	Nylon	PP	GMF	RC	
Pore size	Housing	Cap	Product code	Product code	Product code	Product code	Product code	Product code	Quantity
0.2 µm	Translucent	Standard	GN203NPEORGSP	GN203NPEAQUSP	GN203NPENYLSP	GN203NPEPPSP	–	GN203NPERCSP	100 + 1 HC
0.2 µm	Translucent	Standard	GN203NPEORG	GN203NPEAQU	–	GN203NPEPP	–	GN203NPERC	100/pack
0.45 µm	Translucent	Standard	GN203NPUORGSP	GN203NPUAQUSP	–	–	GN203NPUGMFSP	GN203NPURCSP	100 + 1 HC
0.45 µm	Translucent	Standard	GN203NPUORG	GN203NPUAQU	–	–	GN203NPUGMF	GN203NPURC	100/pack
0.2 µm	Amber	Standard	GN203APEORGSP	GN203APEAQUSP	–	–	–	–	100 + 1 HC
0.2 µm	Translucent	Slit septum	GS203NPEORGSP	–	–	–	–	–	100 + 1 HC
0.45 µm	Translucent	Slit septum	GS203NPUORGSP	–	–	–	GS203NPUGMFSP	–	100 + 1 HC
0.45 µm	Translucent	Slit septum	–	–	–	–	GS203NPUGMF	–	100/pack

HC = Hand compressor

Compressors for Mini-UniPrep

Compressor suitable for	Description	Product code	Quantity
Mini-UniPrep G2 (glass vial)	Hand compressor — 1 position	MUPG2PWC1	1/pack
	Multi Compressor — 8 positions (includes 1 tray)	MUPG2MCPWC8	1/pack
Mini-UniPrep (plastic vial)	Multi Compressor — 6 positions	CR0000006	1/pack



Mini-UniPrep G2 Multi Compressor.

Microbiological analysis

Bacterial count and/or detection

MBS I system and membranes

The MBS I filtration system is designed for laboratories that handle high numbers of samples for microbiological quality control.

Workflow

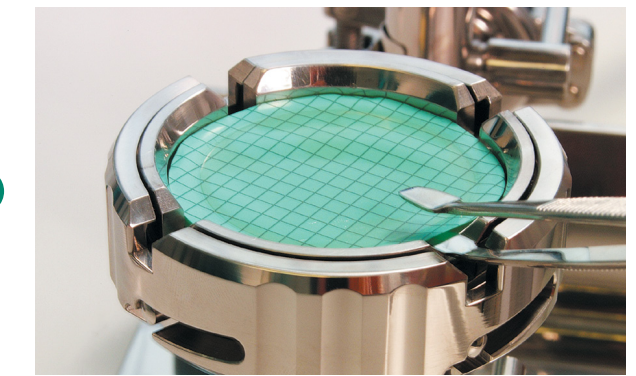


(A) Tight sealing of funnel and membrane reducing any cross contamination by special sealing technique.



(B) Flexibility.

- Volume — either 100 mL or 350 mL
- Material — either ABS or PP
- PP version can be autoclaved up to 50 times



(C) Easy removal of the membrane.

DOMINIQUE DUTOUR

Bacterial count and/or detection

Membranes

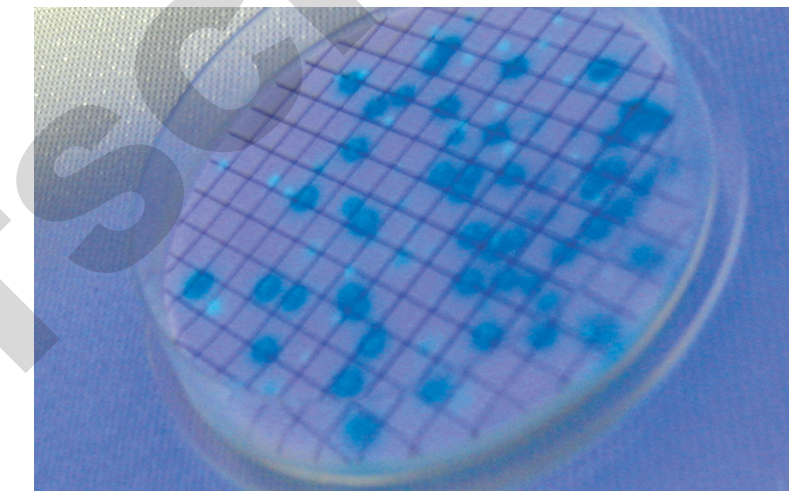
We provide a wide and versatile range of filtration membranes that deliver high-quality performance consistently. The appropriate membrane filter choice will depend on the methodology being followed. ME and MicroPlus membranes are sterile and individually packed.

Membrane material	Cellulose mixed ester	High-flux cellulose nitrate	Nylon (polyamide)	Polycarbonate
Product name	ME	MicroPlus	NL	Nuclepore™
Color	White, black or green	White or black	White	White or black
Pore size	0.2 µm/0.45 µm/ 0.6 µm/0.8 µm	0.45 µm	0.2 µm/0.45 µm	0.2 µm/0.4 µm (and other pore sizes)
Application examples	<i>Enterococcus, E. coli, Clostridia, Fecal coliforms, Staphylococcus, Pseudomonas aeruginosa, etc</i>		<i>Legionella</i>	<i>Legionella</i>

Filtration considerations

Microorganisms in a water sample are collected using a microfiltration membrane filter. The membrane can then be transferred onto a microbiological culture medium for further identification and/or quantification of microorganisms.

Membrane filtration methods are commonly used for the detection of microorganisms such as *E. coli*, *Clostridia*, fecal coliforms, *Legionella*, *Staphylococci*, and *Pseudomonas aeruginosa*. These methods involve the use of membrane filters and filtration manifolds.



Gridded membrane on agar plate containing bacterial colonies.

What are you testing for?	Product	Characteristics and benefits
Bacterial count and/or detection	Membranes	<ul style="list-style-type: none"> • Both sterile and nonsterile options • Range of pore sizes available • ME and MicroPlus membranes are sterile and individually packed. They contain a folded strip of filters for use with our membrane dispenser.
	Accessories: Whatman Membrane-Butler membrane dispenser (manual version)	<ul style="list-style-type: none"> • With each turn a membrane filter is ejected and can be removed easily with a pair of tweezers. • Cross-contamination risks are minimized • Membrane is dispensed rapidly
	Other microbiological control accessories: funnel dispenser, funnels, tweezers, autoclaving bags	<ul style="list-style-type: none"> • Waste reduction, because PP funnels can be autoclaved up to 20 times • Time saving; no need to flame in between filtrations • Easy handling • Reduce cross-contamination • Reproducible results • Low background contamination



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Ordering information

Membrane filters

Diameter					25 mm	47 mm	50 mm	
Membrane material/type	Pore size	Color	Sterile	Whatman Membrane-Butler compatible	Product code	Product code	Product code	Quantity
Cellulose mixed ester/ME type	0.2 µm	white	yes	no	-	10406970	10406972	100/pack
	0.2 µm	white	yes	yes	-	10408712	10408714	400/pack
	0.45 µm	white	yes	no	-	10406870	10406872	100/pack
	0.45 µm	white	yes	yes	-	10407312	10407314	400/pack
	0.45 µm	black/white grid	yes	yes	-	10409770	-	100/pack
	0.45 µm	black/white grid	yes	yes	-	10407332	-	400/pack
Cellulose nitrate/MicroPlus	0.45 µm	white	yes	no	-	10407713	10407714	100/pack
	0.45 µm	white	yes	yes	-	10407112	10407114	400/pack
	0.45 µm	black	yes	no	-	-	10407734	100/pack
	0.45 µm	black	yes	yes	-	10407132	-	400/pack
Polycarbonate/Nuclepore	0.2 µm	white	no	no	-	111106	111206	100/pack
	0.4 µm	white	no	no	-	111107	111207	100/pack
	0.8 µm	black	no	no	110659	-	-	100/pack
Nylon (Polyamide)/NL	0.4 µm	white	no	no	-	10414112	10414114	100/pack

Accessories for microbiological control

Product	Description	Quantity/pack	Product code
AS 200	2-place vacuum manifold	1	10 445 890
Funnel dispenser	Automatic dispenser for funnels	1	10 445 870
Funnels 100 mL	PP (autoclavable)	20	10 445 861
Funnels 350 mL	PP (autoclavable)	20	10 445 866
Autoclaving bags	Autoclaving bags for MBS I funnels	20	10 445 868
Membrane-Butler	Manual dispenser for membranes	1	10 477 100
Membrane eButler	Automatic dispenser for membranes	1	10 477 103



Membrane eButler

Whatman laboratory accessories

In addition to the filtration consumable range, we provide a comprehensive range of accessories for routine work in your laboratory.

Description	Product name	Dimension	Quantity	Product code	
Phase separation paper <ul style="list-style-type: none"> • Separatory funnel replacement: Automatic cut-off • Ease of use: No special training required 	1PS Phase separator paper	Diam. 125 mm	100/pack	2200-125	
		Diam. 150 mm	100/pack	2200-150	
Optical lens cleaning tissue <ul style="list-style-type: none"> • Soft tissue for removing surface moisture and grease from lenses and other optical surfaces 	Grade 105	100 × 150 mm	25 wallets of 25 sheets	2105-841	
		200 × 300 mm	100/pack	2105-862	
Benchkote™ bench protection papers <ul style="list-style-type: none"> • High-quality, smooth, absorbent Whatman paper • Quickly absorbs liquid spills and protect the working surface • Benchkote Plus is thicker and more absorbent 	Benchkote	460 × 570 mm	50/pack	2300-916	
		460 mm × 50 m	1/pack	2300-731	
	Benchkote Plus	500 × 600 mm	50/pack	2301-6150	
		600 mm × 50 m	1/pack	2301-6160	
pH indicator paper <ul style="list-style-type: none"> • Range of pH indicator and test papers for rapid results 	Color Bonded, 0.0 to 14.0 range	6 × 80 mm	100 strips, 1/pack	2613-991	
		Standard Full Range, Reel, 1.0 to 14.0 range	7 mm × 5 m	1/pack	2600-100A
		Standard Narrow Range, Reel, 4.0 to 7.0 range	7 mm × 5 m	1/pack	2600-102A
Pump protection filters <ul style="list-style-type: none"> • Protects vacuum pump systems from aqueous aerosols. Hydrophobic PTFE membranes retain 99,99% of airborne particles > 0.1 µm 	Vacu-Guard	50 mm	10/pack	6722-5000	



1PS phase separator



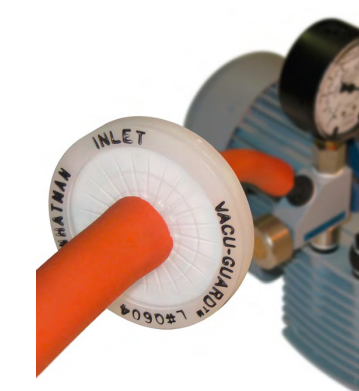
Grade 105 lens cleaning tissue



Benchkote protection paper



pH paper



Vacu-Guard Pump protection filter

Description	Product name	Dimension	Quantity	Product code
Filtration flask for batch filtration <ul style="list-style-type: none"> Consists of a 250 mL glass filtration funnel and 1000 mL flask, funnel base, top, and clamp Good choice for use with Whatman filtration membranes 	Whatman GV050/2 vacuum filtration unit	–	–	10442200
Pressure filtration apparatus <ul style="list-style-type: none"> Stainless steel Infusion vessel 2200 mL 	MD142/5/3	142 mm	1	10451610
Pressure filter holder <ul style="list-style-type: none"> PTFE Infusion vessel 1500 mL 	MD142/7/3	142 mm	1	10451710
In-line filtration degasser Connects directly into an HPLC line to simultaneously filter and degas the mobile phase as it is being used <ul style="list-style-type: none"> Flexibility: available with either nylon or polypropylene membranes Polypropylene housing with security ring sealing No need for preliminary mobile phase separation 	Inline Filtration Degasser (IFD)	–	–	
3-piece filter funnel <ul style="list-style-type: none"> For quick and easy filtration Choice of 3 plates 	Filter funnel	47 mm	1	1950-004
	Filter funnel	90 mm	1	1950-009
	Filter funnel	70 mm	1	1950-017
Membrane holder <ul style="list-style-type: none"> Produced from borosilicate glass Suitable for aqueous and organic solvent filtration 	Vacuum-type glass membrane holder	47 mm	1	1960-004
	Vacuum-type glass membrane holder	90 mm	1	1960-009
Manual dispenser for membranes	Membrane-Butler	–	1	10477103

Chemical compatibility of membranes and housings*

Selecting the right filter depends on the solvent that you are using for your application. This table will help ensure that you get it right the first time.

Solvent	ANP	CA	CN	PC	PE	GMF	NYL	PP	DpPP	PES	PTFE [‡]	PVDF	RC
Acetic acid, 5%	R	LR	R	R		R	R	R	R	R	R	R	R
Acetic acid, glacial	R	NR	NR			R	LR	R	R	R	R	R	NR
Acetone	R	NR	NR	NR	R	R	R	R	R	NR	R	NR	R
Acetonitrile	R	NR	NR			R	R	R	R	NR	R	R	R
Ammonia, 6 N	NR		NR	NR	LR	LR	R	R	R	R	R	LR	LR
Amyl acetate	LR	NR	NR	NR	R	R	R	R	R	LR	R	LR	R
Amyl alcohol	R	LR	LR			R	R	R	R	NR	R	R	R
Benzene [†]	R	R	R	NR	R	R	LR	NR	NR	R	R	R	R
Benzyl alcohol [†]	R	LR	LR	LR	R	R	LR	R	R	NR	R	R	R
Boric acid	R	R	R	R	R	R	LR	R	R		R	R	R
Butyl alcohol	R	R	R	R	R	R	R	R	R	R	R	R	R
Butyl chloride [†]						R	NR	NR	NR		R	R	
Carbon tetrachloride [†]	R	NR	R	LR	R	R	LR	NR	NR	NR	R	R	R
Chloroform [†]	R	NR	R	NR	R	R	NR	LR	LR	NR	R	R	R
Chlorobenzene [†]	R		LR	NR		R	NR	LR		NR	R	R	R
Citric acid						R	LR	R		R	R	R	R
Cresol		NR	R			R	NR	NR	NR	NR	R	NR	R
Cyclohexane	R	NR	NR	R	R	R	NR	NR	NR	NR	R	R	R
Cyclohexanone	R	NR	NR			R	NR	R	R	NR	R	R	R
Diethylacetamide		NR	NR			R	R	R	R		R	NR	R
Dimethylformamide	LR	NR	NR			R	R	R	R	NR	R	NR	LR
Dioxane	R	NR	NR	NR	R	R	R	R	R	LR	R	LR	R
DMSO	LR	NR	NR	NR	R	R	R	R	R	NR	R	LR	LR
Ethanol	R	R	NR	R	R	R	R	R	R	R	R	R	R
Ethers	R	LR	LR	R	R	R	R	NR	NR	R	R	LR	R
Ethyl acetate	R	NR	NR	NR	R	R	R	R	R	NR	R	NR	R
Ethylene glycol	R	LR	LR	R	R	R	R	R	R	R	R	R	R
Formaldehyde	LR	LR	R	R	R	R	R	LR	LR	R	R	R	LR

Solvent	ANP	CA	CN	PC	PE	GMF	NYL	PP	DpPP	PES	PTFE [‡]	PVDF	RC
Freon TF	R	R	R	R	R	R	NR	NR	NR	R	R	R	
Formic acid		LR	LR			R	NR	R	R	R	R	R	LR
Hexane	R	R	R	R	R	R	R	R	R	R	R	R	R
Hydrochloric acid, conc.	NR	NR	NR	NR	NR	R	NR	LR	LR	R	R	R	NR
Hydrofluoric acid		NR	NR			NR	NR	LR	LR		R	R	NR
Isobutyl alcohol	R	LR	LR	R	R	R	R	R	R		R	R	R
Isopropyl alcohol	R	R	LR			R	R	R	R		R	R	R
Methanol	R	R	NR	R	R	R	R	R	R	R	R	R	R
Methyl ethyl ketone	R	LR	NR	NR	R	R	R	R	R	NR	R	NR	R
Methylene chloride [†]	R	NR	LR			R	NR	LR	LR	NR	R	R	R
Nitric acid, conc.		NR	NR	LR	NR	R	NR	NR	NR	NR	R	R	NR
Nitric acid, 6 N		LR	LR			R	NR	LR	LR	LR	R	R	LR
Nitrobenzene [†]	LR	NR	NR	NR	R	R	LR	R	R	NR	R	R	R
Pentane	R	R	R	R	R	R	R	NR	NR	R	R	R	R
Perchloroethylene	R	R	R			R	LR	NR	NR	NR	R	R	R
Phenol 0.5%	LR	LR	R			R	NR	R	R	NR	R	R	R
Pyridine	R	NR	NR	NR	R	R	LR	R	R	NR	R	NR	R
Sodium hydroxide, 6N	NR	NR	NR	NR	NR	NR	LR	R	R	R	R	NR	NR
Sulfuric acid, conc.	NR	NR	NR	NR	NR	R	NR	NR	NR	NR	R	NR	NR
Tetrahydrofuran	R	NR	NR			R	R	LR	LR	NR	R	R	R
Toluene [†]	R	LR	R	NR	R	R	LR	LR	LR	NR	R	R	R
Trichloroethane [†]	R	NR	LR	NR	R	R	LR	LR	LR	NR	R	R	R
Trichloroethylene [†]	R		R			R	NR	LR	LR	NR	R	R	R
Water	R	R	R	R	R	R	R	R	R	R	R	R	R
Xylene [†]	R	R	R			R	LR	LR	LR	LR	R	R	R
Xylene [†]	R	R	R			R	LR	LR	LR	LR	R	R	R

*ANP = Anopore; CA = Cellulose acetate; CN = Cellulose nitrate; DpPP = Polypropylene depth filter; GMF = Glass microfiber; NYL = Nylon; PC = Polycarbonate; PE = Polyester; PES = Polyethersulfone; PP = Polypropylene; PTFE = Polytetrafluoroethylene; PVDF = Polyvinylidene difluoride; RC = Regenerated cellulose; R = Resistant; LR = Limited Resistance; NR = Not Recommended.

[†] Short Term Resistance of Housing.

[‡] Membrane may need pre-wetting with isopropanol/methanol if filtering a polar liquid.

The above data is to be used as a guide only. Testing prior to application is recommended.

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