GE Healthcare
Life Sciences

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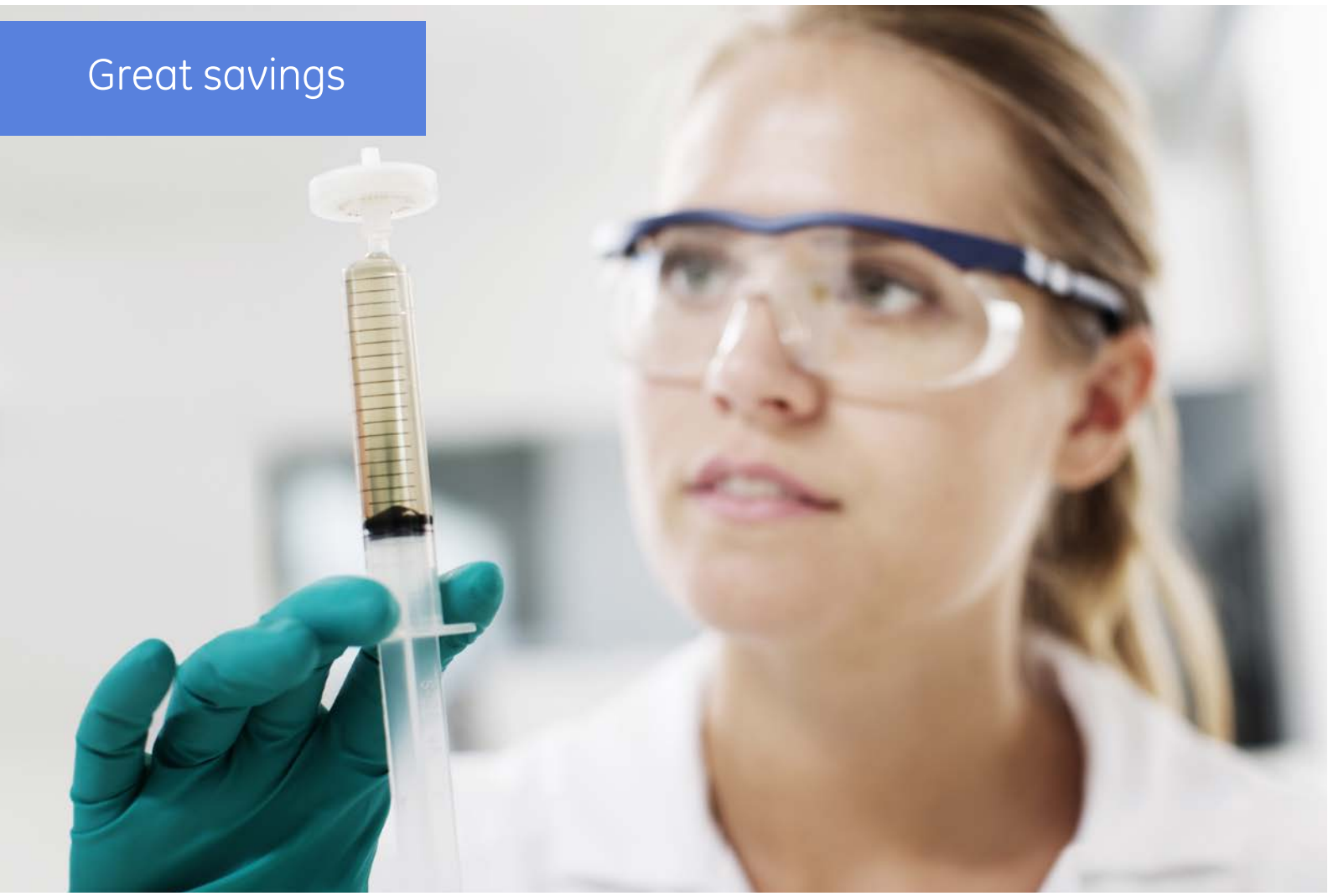
We Enable Science

Laboratory Essentials

Whatman™ filtration products for academic research

Great savings



Puradisc Syringe filters for routine sample preparation

Puradisc Syringe filters combine quality and economy for filtration of samples up to 100 ml.

Feature and benefits

- Pigment-free polypropylene housing
- Standard inlet and outlet luer connectors
- Choice of filter sizes (4 mm to 30 mm) with optional Tube Tip)
- Choice of wide variety of membranes or glass microfiber filter media

Fig 1: Puradisc Syringe filters.

Ordering information - Puradisc syringe filters, 25 mm*

	Nonsterile						Sterile	
Membrane*	Nylon	PVDF	PTFE	PP	PES	GMF	PES	Quantity/pack
Pore size (µm)								
0.2	28205-500	70240-164	28137-926	28137-954	—	—	28137-936	50
0.45	28205-502	70240-166	28137-928	28137-956	—	—	28137-938	50
0.2	28205-510	89233-770	28137-932	28137-958	28137-942	—	—	200
0.45	28205-512	70240-170	28137-934	28137-960	28137-944	—	—	200
0.45	28205-522	—	—	—	—			500

* please contact your VWR Sales Representative for other diameters and pore sizes.

Whatman GD/X™ Syringe filters

Whatman GD/X is excellent for difficult to filter samples that are heavily laden with particles.

Features and benefits

- **Increased volume throughput:** Volume of sample filtered can be three to seven times greater than conventional filters
- **Superior performance:** up to four layers of filtration media reduce blockage and the need to replace the filter in mid-operation
- **Less hand force required:** The pre-filter layer allows samples to be filtered with less hand force, minimizing operator fatigue

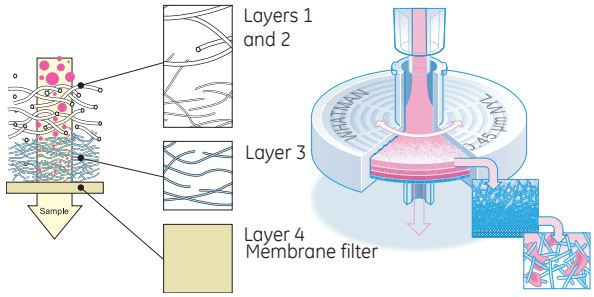


Fig 2: Whatman GD/X Syringe filters contain several filtration layers that substantially reduce blockage and increase volume throughput. This is a schematic representation of Whatman GD/X features only.

Ordering information - GD/X Syringe filters*

Pore Size	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Quantity
GD/X with glass fiber prefilter								
Membrane type	Nylon	PVDF	PTFE	PP	PES	RC	CA	
25mm 0.2µm	28138-154	28138-158	28138-162	28138-170	28138-166	89233-780	28138-174	150 /pack
25mm 0.45µm	28138-156	28138-160	28138-164	28138-172	28138-168	89233-782	28138-176	150 /pack
13mm 0.2µm	28138-102	28138-106	28138-110	28138-118	28138-114		10147-964	150/pack
13mm 0.45µm	28138-104	28138-108	28138-112		10147-962		80087-208	150/pack

* please contact your VWR Sales Representative for other diameters and pore sizes.

Mini-UniPrep™ filter vials for increased throughput

Whatman Mini-UniPrep Syringeless Filters provide a faster, easier way to remove particulates from samples being prepared for HPLC/UHPLC analysis.

Feature and benefits

- Replaces syringe, syringe filter, vial, and cap
- Time savings with multicompressors (6 or 8 positions)
- Waste and cost reduction

Fig 3: Mini-UniPrep glass (left) and plastic versions. Once compressed, the dimensions are equivalent in size to 12 mm x 32 mm vial.

Ordering information - Mini-UniPrep with polypropylene housing

Pore Size	Housing	Cap	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Quantity
	Membrane Type		PTFE	PVDF	Nylon	PP	RC	PES	
0.2 µm	Translucent	Standard	**14224-946**	**14224-978**	**14224-976**	**14224-930**	**97015-564**	**14224-914**	100/pack
0.45 µm	Translucent	Standard	**28137-758**	**28137-762**	**28137-754**	**28137-766**	**97015-562**	**10147-936**	100/pack
0.2 µm	Amber	Standard	**84009-508**	**84009-504**	**84009-506**	**84009-512**		**84009-510**	100/pack
0.45 µm	Amber	Standard	**83009-802**	**84009-514**	**89233-786**	**83009-806**		**83009-804**	100/pack
0.2 µm	Translucent	Slit septum	**12000-528**	**12000-524**	**12000-526**	**12000-532**		**12000-530**	100/pack
0.45 µm	Translucent	Slit septum	**83009-816**	**83009-808**	**83009-814**	**83009-820**			100/pack

Whatman Uniflo™ Syringe filters

Whatman Uniflo syringe filters ensure uniform and consistent performance at a moderate cost. Uniflo syringe filters are designed for routine applications which require an inexpensive filter.

Feature and benefits

- Ready-to-use, disposable syringe filters incorporating a variety of popular media types in a polypropylene housing
- Designed to provide clean filtrate from small volumes up to 100 ml.
- Two size formats – 13 mm and 25 mm diameters
- Polypropylene overmolded housing

Fig 4: Uniflo Syringe filters

Ordering information - Uniflo Syringe filters

Diameter	Pore Size	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Quantity
		PES	PFTE	PVDF	Nylon	
13 mm	0.22 µm	-	-	-	-	500/pack
13 mm	0.45 µm	-	-	-	-	500/pack
25 mm	0.22 µm	-	-	-	-	500/pack
25 mm	0.45 µm	-	-	-	-	500/pack

* please contact your VWR Sales Representative representative for product availability.

Filter devices for small volume sample preparation

Step 1: Choose application
Step 2: Choose appropriate filter

Start here

Applications

1. Air venting
2. Automated filtration of samples/tablet dissolution testing
3. Biological sample preparation
4. Capillary electrophoresis
5. Difficult to filter samples (high solid content samples)
6. Filtration of colloidal material
7. HPLC/UHPLC sample preparation
8. Ion-chromatography
9. Filtration of protein containing samples
10. Filtration of nano particles
11. Sterile filtration (use sterile filter and membrane with pore size 0.2 µm)
12. COD/TOC/DOC
13. Trace metal analysis (ICP/AAS/ICP-MS)
14. UV/VIS analysis

COD = Chemical oxygen demand;
TOC =Total organic carbon;
DOC =Dissolved organic carbon
Note: For guidance only. Only a selection of applications shown above

Puradisc FP
3* 4 9* 11 14
*Notes:
3 and 9: CA

Puradisc Aqua 30
12 13

ReZist™
1 4 7 14

Anotop™
3 4 6 7 8 9 10* 11 14
*Notes: 0.02 µm

Puradisc
3* 4 7 9* 11 12* 13* 14
*Notes:
3 & 9: CA, PES, PVDF
12 & 13: PES

Anotop Plus
4 5 7 10*
*Notes: 0.02 µm

Mini-UniPrep™ G2
2 7

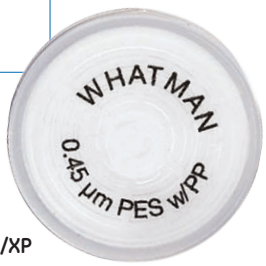
Uniflo
3 4 7 9 12 13 14

Mini-UniPrep
2 7

SPARTAN
4 7 9 14

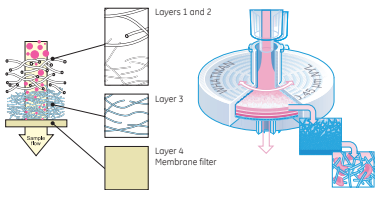
GD/X
4 5 7 11 14

GD/XP
4 5 7 8 12 13 14

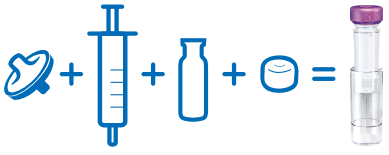


Need to speed up and simplify filtration? Consider Whatman GD/X and Mini-UniPrep ranges

GD/X - syringe filter
Multilayer construction provides easier filtration of high particulate samples



Mini-UniPrep filter vial and multi compressor
All in one filtration of up to 8 HPLC samples in parallel



General filtration

Cellulose filter papers

GE Healthcare offers an extensive line of cellulose filter papers. Whatman filters deliver high quality, reproducibility, and uniformity for quantitative and preparative research applications.

Fig 5: Pre-pleated filter format.

Fig 6: Whatman flat filter paper (Grade 44).

Features and benefits

- Wide choice of retention and flow rate combinations—retention down to 2.5 µm
- A variety of filters with different levels of purity, hardness, and chemical resistance
- Pre-pleated format available for some grades: they are suitable for hard-to-filter samples or to increase flow rate

Quantitative cellulose filter papers

Whatman quantitative filters are for gravimetric analysis and the preparation of samples for instrumental analysis.
The three formats available are:

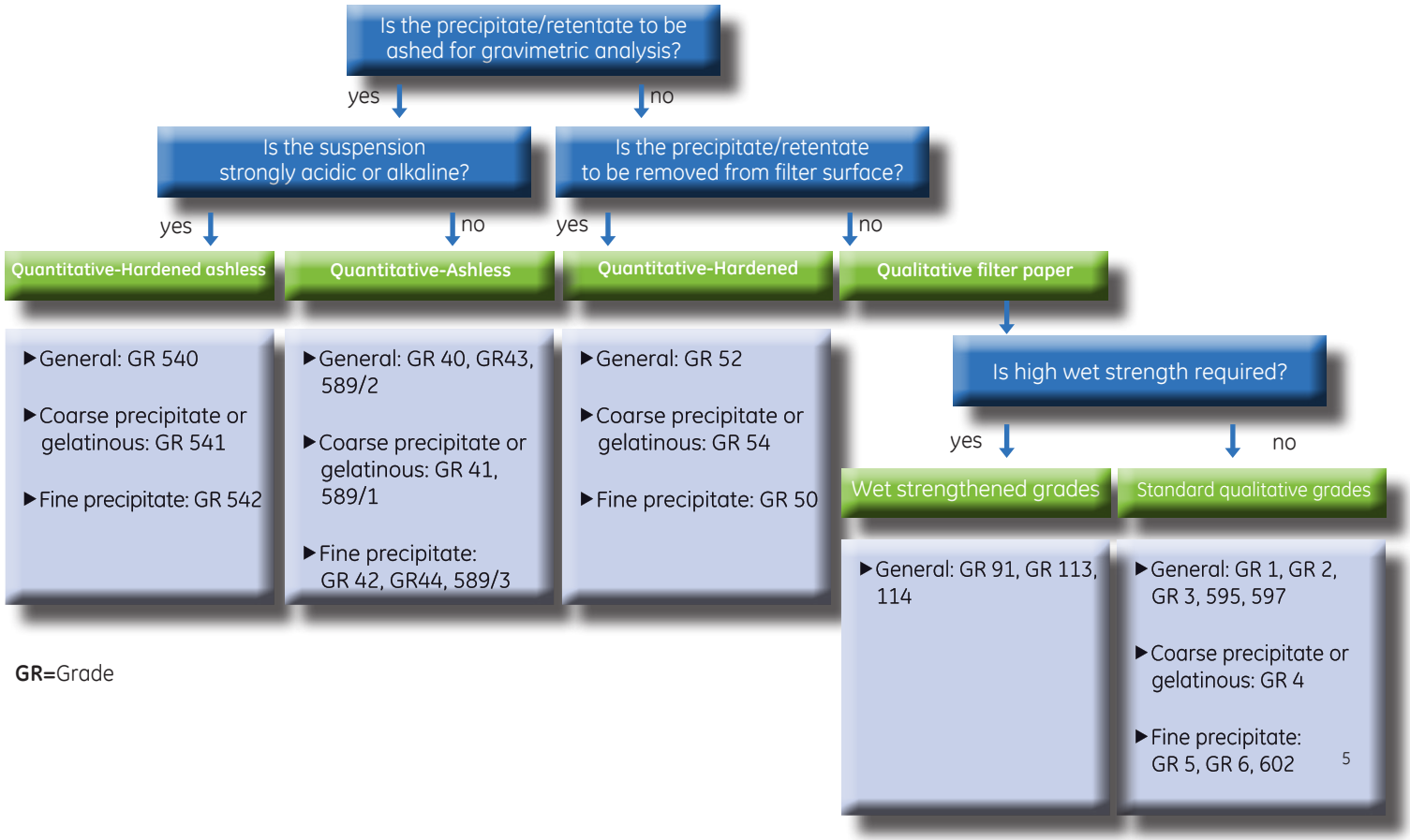
- Ashless quantitative filter papers
- Hardened low ash quantitative filter papers
- Hardened ashless quantitative filter papers

Qualitative cellulose filter papers

Whatman qualitative cellulose filters are for qualitative analytical experiments to determine and identify specific materials
The two formats available are:

- Standard qualitative filters papers
- Wet strengthened filter papers

Use the decision tree to identify the filter paper that meets your needs



GR=Grade

Typical Properties of Whatman cellulose filter papers

Quantitative filter papers

Grade	Nominal particle retention in liquid (µm)	Filtration speed (approx) Herzberg	Typical thickness (µm)	Basis weight (g/m²)	Ash content	Flow – aspect
Ashless quantitative cellulose filter papers						
40	8	340	210	95	0.007%	Medium
41	20	54	220	85		Fast
42	2.5	1870	200	100		Slow
43	16	155	220	95		Medium to fast
44	3	995	180	80		Slow to medium
589/1*	12-25	25	190	80	0.01%	Fast
589/2*	4-12	70	190	85		Medium to fast
589/3	<2	750	150	84		Slow
Hardened low ash quantitative cellulose filter papers						
50	2.7	2685	115	97	0.015%	Slow
52	7	235	175	101		Medium
54	22	39	185	92		Fast
Hardened ashless quantitative cellulose filter papers						
540	8	200	115	88	0.006%	Medium
541	22	34	175	82		Fast
542	2.7	2510	185	93		Slow

* Pre-pleated versions available

Maximum practical volumes of circle sizes (quadrant folded)

Volume (ml)	15	20	35	75	135	300
Filter Diameter (mm)	90	110	125	150	185	240

Ordering information – Quantitative filter papers 100/pack

Diameter	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Ashless	Grade 40	Grade 41	Grade 42	Grade 43	Grade 44	Grade 589/1	Grade 589/2	Grade 589/3
90 mm	**28475-048**	**28478-024**	**28480-081**	**70240-050**	**28482-021**	**10034-602**	**10034-616**	
110 mm	**28475-060**	**28478-046**	**28480-106**	**28481-295**	**28482-043**	**14224-460**	**10034-618** **10034-626(P)**	**14224-450**
125 mm	**28475-081**	**28478-068**	**28480-128**	**28481-302**	**28482-065**	**14224-458**	**10034-620**	**14224-444**
150 mm	**28475-106**	**28478-080**	**28480-140**	**70240-046**	**28482-070**	**14224-456** **10034-604(P)**	**28427-103** **10034-628(P)**	**89233-654**
185 mm	**28475-128**	**28478-104**	**28480-161**	**28297-320**	**28297-334**	**14224-454**	**10034-622**	**10034-630**
240 mm	**28475-140**	**28297-291**	**28480-182**				**10034-624**	
Hardened and Hardened ashless	Grade 50	Grade 52	Grade 54	Grade 540	Grade 541	Grade 542		
90 mm	**28485-063**	**28487-047**	**28489-042**	**28297-368**	**28479-049**	**28297-392**		
110 mm	**28485-085**	**70240-066**	**28489-064**	**28297-370**	**28479-060**	**28297-394**		
125 mm	**28485-100**	**28487-080**	**28489-086**	**28297-372**	**28479-082**	**28297-396**		
150 mm	**28485-121**	**28487-105**	**28489-100**	**28297-374**	**28479-107**	**28297-398**		
185 mm	**28485-143**		**28489-122**	**28297-376**	**28479-129**	**28297-400**		
240 mm	**28485-165**	**28297-354**	**28489-144**	**10035-282**	**28479-130**	**10147-894**		

Typical Properties of Whatman cellulose filter papers

Qualitative filter papers

Grade	Nominal particle retention in liquid (µm)	Filtration speed (approx) Herzberg (s)	Typical thickness (µm)	Basis weight (g/m²)	Grade for pre pleated version	Flow – aspect
Standard qualitative cellulose filter papers						
1	11	150	180	88		Medium
2	8	240	190	103	2V	Medium
3	6	325	390	187		Medium-thick
4	20-25	37	205	96		Very fast
5	2.5	1420	200	98	5V	Slow
6	3	715	180	105		Medium to slow
595	4-7	80	150	68	$595^{1/2}$	Medium to fast – thin
597	4-7	70	180	85	$597^{1/2}$	Medium to fast
602h	<2	375	160	84	$602h^{1/2}$	Slow
Qualitative wet strengthened cellulose filter papers						
113	30	28	420	125	113V	Fast – creped
114	25	38	190	77	114V	Fast – smooth
91	10	70	205	71		Creped
1573	<2	700	140	92	$1573^{1/2}$	Slow

Ordering information – Qualitative filter papers - 100/pack

Diameter	Cat. No.	Cat. No.	Cat. No	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Qualitative	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 595	Grade 597	Grade 602H
42.5 mm	**28450-026**	**28455-030**		**28460-019**	**70240-034**	**10147-902**			
55 mm	**28450-048**	**28455-041**	**28456-022**	**28460-030**	**28462-025**			**10034-666**	
70 mm	**28450-070**	**28455-063**	**28456-043**	**28460-041**	**28462-047**	**10147-904**		**11008-542**	
90 mm	**28450-081**	**28455-085**	**28456-065**	**28460-063**	**28462-069**	**10147-988**		**14224-440**	
110 mm	**28450-106**	**28455-110**	**28456-087**	**28460-085**	**28462-080**	**28462-170**	**10034-642**	**11008-544**	
125 mm	**28450-128**	**28455-121**	**28456-101**	**28460-110**	**28462-104**	**10147-990**	**10035-780**	**14224-442**	**10034-698**
150 mm	**28450-150**	**28455-142**	**28456-123**	**28460-120**	**28462-126**	**10147-992**	**28430-109**	**14224-436**	**10034-700**
185 mm	**28450-160**	**28455-164**	**28456-145**	**28460-142**	**28462-148**	**10147-994**		**89233-650**	**10034-702**
240 mm	**28450-182**	**28455-186**	**28456-167**	**28460-164**	**28462-160**	**10035-236**		**10034-668**	**10034-704**

Qualitative wet strengthened	Grade 91*	Grade 113	Grade 114	Grade 1573
90 mm		**28297-254**	**70240-094**	
110 mm		**10147-906**		
125 mm		**28297-258**	**70240-074**	
150 mm	**10035-700**	**28297-260**	**28464-994**	**11008-574**
185 mm	**10035-704**	**28297-262**	**70240-076**	**10034-724**
240 mm	**10035-708**	**10147-908**	**70240-078**	

Qualitative pre-pleated	Grade 2V	Grade 113V	Grade 114V	Grade $595^{1/2}$	Grade $597^{1/2}$	Grade $602h^{1/2}$	Grade $1573^{1/2}$
70 mm				**10035-782**	**14223-590**		
90 mm				**10035-784**	**10034-670**	**10192-062**	
110 mm				**10035-786**	**10034-672**		
125 mm	**28465-022**	**28297-270**	**28467-061**	**10034-644**	**14224-424**	**10034-706**	**10034-728**
150 mm	**28465-044**	**28297-272**	**28467-083**	**10034-646**	**14224-640**	**74330-460**	**10034-730**
185 mm	**28465-066**	**28297-274**	**28467-108**	**10034-648**	**14223-536**	**10034-708**	**14224-412**
240 mm	**28465-088**	**28297-276**	**28467-120**	**10034-652**	**14224-420**	**10034-710**	**14224-416**

* Grade 91: 1000 filters/pack

Glass fiber filters

We provide Whatman binder free glass microfiber filters manufactured from 100% borosilicate glass for use in many applications such as general clarification, dissolution testing or prefiltration

Fig 7: Whatman binder free glass fiber filters.

Features and benefits

- Depth filters
- Fast flow rates
- High loading capacity
- Retention of very fine particles, extending into the sub-micron range

Typical properties of glass fiber filters

Product	Filtration speed	Particle retention in liquid (µm)	Typical thickness (µm)	Basic weight (g/m²)
Grade GF/A	Fast	1.6*	260	53
Grade GF/B	Medium to fast	1.0*	675	143
Grade GF/C™	Medium to fast	1.2*	260	53
Grade GF/D	Fast	2.7*	675	121
Grade GF/F	Medium	0.7*	420	75
GMF 150 1 µm - Multilayer	Medium to fast	1.2*	730	139

*Particle retention rating at 98% efficiency

Ordering information - Glass fiber fibers - 100/pack

Diameters **	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Glass fiber	Grade GF/A	Grade GF/B	Grade GF/C	Grade GF/D	Grade GF/F	Grade GMF 150 1 µm
25 mm	**28497-110**	**28497-437**	**28497-652**	**70240-134**	**28497-925**	
42.5 mm	**28497-142**	**28497-459**	**28497-685**	**28497-867**	**28497-947**	
47 mm	**28497-153**	**28497-460**	**28497-696**	**28497-725**	**28497-958**	**28495-612**
55 mm	**28497-164**	**28497-470**	**28497-700**	**28497-889**	**28497-969**	
70 mm	**28497-186**	**28497-481**	**28497-721**	**28497-890**	**28497-970**	
90 mm	**28497-200**	**28497-492**	**28497-743**	**28161-491**	**28497-972**	**28495-616**

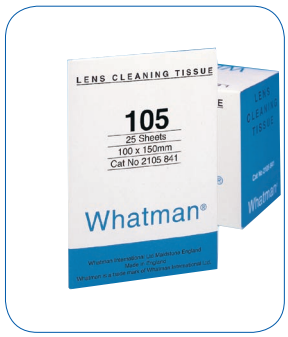
**Other grades and dimensions are also available—please contact your VWR Sales Representative for more information

Even the smallest thing can have a big impact.

Essential laboratory accessories

In addition to the filtration consumable range, we provide a comprehensive range of accessories for routine work in your laboratory. The table below shows a selection of the products we offer.

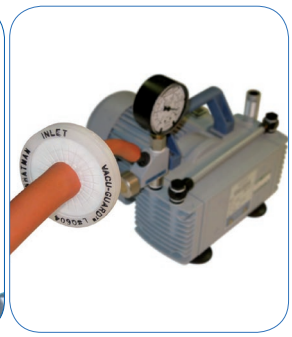
1PS phase separator



Grade 105 lens cleaning tissue

Benchkote™ protection paper

pH papers



Vacu-Guard Pump protection filter

Description	Product name	Dimension	Cat. No.	Qty/pack
Phase separation paper •Automatic cut-off: Separatory Funnel Replacement •Ease of use: No special training required	1PS Phase separator paper	Diam. 125 mm Diam. 150 mm	**28491-146** **28491-168**	100 100
Optical lens cleaning tissue •For removal surface moisture and grease from lenses and other optical surfaces which can be easily scratched if you do not clean them with a very soft surface	Grade 105	100 × 150 mm 200 × 300 mm	**97002-542** **52846-108**	25 wallets of 25 sheets 100
Benchkote bench protection papers •High-quality, smooth, absorbent Whatman paper •Quickly absorbs liquid spills and protects the working surface •Benchkote Plus is thicker and more absorbent	Benchkote Benchkote Plus	460 x 570 mm 460 mm x 50 m 500 x 600 mm 600 mm x 50 m	**52855-001** **52856-004** **52854-994** **52857-997**	50 1 reel 50 1 reel
Weighing papers and boats •Designed for weighing and transferring samples safely and reliably •Minimized influence on analytical results	Grade 2122 Grade B-2 Sheets Kjeldahl Analysis Weighing Boats	100 x 100 mm 3 x 3 inch 55 x 10 x 10 mm	**10035-658** **28498-002** **10034-722**	500 500 100
Antibiotic assay papers •For determining the type of causal agent of infectious diseases and checking their sensitivity to antibiotics and chemotherapeutic agents in vitro based on the inhibition zone determination method	Antibiotic Assay Discs	6 mm	**89007-048**	1000
pH Indicator Papers •Range of pH indicator and test papers for the rapid determination of pH values in many applications	Colour Bonded, 0.0 to 14.0 range Standard Full Range, Reel, 1.0 to 14.0 range Standard Narrow Range, Reel, 4.0 to 7.0 range	6 x 80 mm 7 mm x 5 m 7 mm x 5 m	**28297-426** **14217-670** **14217-674**	100 strips 1 1
Pump protection filters •Protects vacuum pump systems from aqueous aerosols. Hydyrophobic PTFE membranes retain 99.99% or airbone particles > 0.1 µm	Vacu-Guard	50 mm	**28137-858**	10

Benchkote surface protectors

GE's Whatman Benchkote surface protector is an absorbent lab paper that protects surfaces against hazardous spills. After use, the bench protector sheet is incinerated or disposed of according to local regulations.

Fig 8: Benchkote surface protectors

Features and benefits

- **Strong**: Benchkote surface protector is strong and tear resistant when wet or dry
- **Ease-of-use**: Smooth white surface can be written on with ink or pencil and lies flat
- **Clean**: Suitable for saturation with disinfectant to protect benches where pathogens and other bacteria are present
- **Disposable**: Benchkote paper can be incinerated after use

Ordering information - Benchkote surface protectors

Surface protector	Quantity	Cat. No.
Benchkote surface protector, 460 × 570mm sheet	50/pack	**52855-001**
Benchkote surface protector, 460mm × 50m reel	1/reel	**52856-004**
Benchkote surface protector, 460 × 570mm sheet	100/pack	**10035-340**

Benchkote Plus Surface Protectors

Benchkote Plus Surface Protector, 500 × 600 mm sheet	50/pack	**52854-994**
Benchkote Plus Surface Protector, 600 mm x 50m reel	1/reel	**52857-997**

Vacu-Guard™ vacuum protection filters

Protecting your employees, equipment and work area from harmful contaminants is more important than ever. For maximum safety, choose the Whatman Vacu-Guard family of products. These easy-to-use in-line filter devices help to confine and isolate infectious materials in vacuum systems and protect your laboratory.

Fig 9: Vacu-Guard vacuum protection filters

Features and benefits

- Protects vacuum systems from pathogen contamination.
- Protection of work area from airborne pathogens and hazardous vacuum pump exhaust.
- Protects vacuum pumps from aerosol corrosion.

Ordering information - Vacu-Guard vacuum protection filters

Vacuum protection filter	Pore size	Quantity	Cat. No.
Vacu-Guard 50 mm Disc	0.45µm	10/pack	**28137-858**
Vacu-Guard 60 mm Disc	0.45 µm	10/pack	**28137-737**
Vacu-Guard 150mm Disc (AC)	0.45 µm	1/pack	**28137-857**
Vacu-Guard 150mm Disc (D)	0.45 µm	1/pack	**28137-859**

* please contact your VWR Sales Representative for other filters types; AC=Activated Carbon; D = Dessicant.

Chemical compatibility of membranes and housings

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, 6N	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
Benzyl Alcohol*	R	LR	LR	LR	R	R	LR	R	R	NR	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
Cyclohexanone	R	NR	NR			R	NR	R	R	NR	R	R	R
Cyclohexane*	R	NR	NR	R	R	R	NR	NR	NR	NR	R	R	R
Diethyl Acetamide		NR	NR			R	R	R	R		R	NR	R
Dimethyl Formamide	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
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
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, 6N*		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
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

R = Resistant; LR = Limited Resistance; NR = Not Recommended; * = Short Term Resistance of Housing
The above data is to be used as a guide only. Testing prior to application is recommended.
** = membrane may need pre-wetting with isopropanol/methanol if filtering a polar liquid

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; C= Regenerated Cellulose

GE Healthcare UK Limited
Amersham Place
Little Chalfont,
Buckinghamshire, HP7 9NA
UK

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GE Healthcare Bio-Sciences AB, Bjorkgatan 30, 751 84 Uppsala, Sweden
GE Healthcare Europe GmbH, Munzinger Strasse 5, D-79111 Freiburg, Germany
GE Healthcare Bio-Sciences Corp., 100 Results Way, Marlborough, MA 01752, USA
GE Healthcare Dharmacon Inc., 2650 Crescent Dr, Lafayette, CO 80026, USA
HyClone Laboratories Inc., 925 W 1800 S, Logan, UT 84321, USA
GE Healthcare Japan Corp., Sanken Bldg., 3-25-1, Hyakunincho Shinjuku-ku, Tokyo 169-0073, Japan

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