

Filter Papers for Qualitative Analysis, Whatman Schleicher & Schuell

Filtering paper for qualitative analysis made of cellulose (round filters/sheets)

Grade 1: Medium retention and flow rate for routine laboratory applications

Grade 2: Slightly more retentive than Grade 1 a corresponding slower flow rate

Grade 3: Thick paper, excellent loading capacity, highly suitable for Büchner funnels

Grade 4: High flow rate for coarse particles and gelatinous precipitates

Grade 5: The maximum degree of fine particle filtration in the quantitative paper range

Grade 6: Twice as fast as Grade 5 with slightly reduced particle retention

	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6
Particle retention μm	11	8	6	20 – 25	2,5	3
Filtering rate, Herzberg, s/100 ml	350	240	325	37	1420	715
Ash %	0,06	0,06	0,06	0,06	0,06	0,1 – 0,2
Thickness mm	0,18	0,19	0,39	0,21	0,20	0,18
Weight g/m ²	87	97	185	92	100	100
Load capacity	N	N	H	N	N	N
Wet rupturing kPa	1,7	2,0	2,8	1,5	2,8	1,7
Dry rupturing kPa	97	110	193	69	172	124



Dimensi ons mm	PU pc/Pack	Grade 1 Order No.	Grade 2 Order No.	Grade 3 Order No.	Grade 4 Order No.	Grade 5 Order No.	Grade 6 Order No.
Ø 55	100	25 02 01055	25 02 02055	25 02 03055	25 02 04055	25 02 05055	
Ø 70	100	25 02 01070	25 02 02070	25 02 03070	25 02 04070	25 02 05070	25 02 06070
Ø 90	100	25 02 01090	25 02 02090	25 02 03090	25 02 04090	25 02 05090	25 02 06090
Ø 110	100	25 02 01110	25 02 02110	25 02 03110	25 02 04110	25 02 05110	25 02 06110
Ø 125	100	25 02 01125	25 02 02125	25 02 03125	25 02 04125	25 02 05125	25 02 06125
Ø 150	100	25 02 01150	25 02 02150	25 02 03150	25 02 04150	25 02 05150	25 02 06150
Ø 185	100	25 02 01185	25 02 02185	25 02 03185	25 02 04185	25 02 05185	25 02 06185
Ø 240	100	25 02 01240	25 02 02240	25 02 03240	25 02 04240	25 02 05240	25 02 06240
Ø 270	100	25 02 01270	25 02 02270		25 02 04270		
Ø 320	100	25 02 01320	25 02 02320	25 02 03320	25 02 04320	25 02 05320	
Ø 385	100	25 02 01385	25 02 02385				
Ø 500	100	25 02 01500	25 02 02500	25 02 03500			
580x580	100	25 02 01930		25 02 03930	25 02 04930		

❗ Available only in original packaging units. No fractions possible.

Filter paper for qualitative analysis made of cellulose (folded filters)

Ø mm	PU pc/Pack	Grade 1 V Order No.	Grade 2 V Order No.	Grade 4 V Order No.	Grade 5 V Order No.	Grade 6 V Order No.
70	100	25 02 11070				
90	100	25 02 11090				
110	100	25 02 11110				
125	100	25 02 11125	25 02 12125	25 02 14125	25 02 15125	25 02 16125
150	100	25 02 11150	25 02 12150	25 02 14150	25 02 15150	25 02 16150
185	100	25 02 11185	25 02 12185	25 02 14185		25 02 16185
240	100	25 02 11240	25 02 12240	25 02 14240		25 02 16240
270	100	25 02 11270	25 02 12270			25 02 16270
320	100	25 02 11320	25 02 12320	25 02 14320		25 02 16320
385	100	25 02 11385	25 02 12385			
500	100	25 02 11500	25 02 12500	25 02 14500		

❗ Available only in original packaging units. No fractions possible.

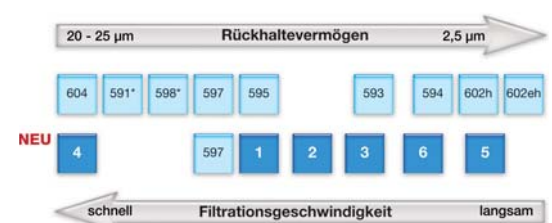
Filter papers for qualitative analysis, type 591 (round/sheets)

- Thick filter paper
- For coarse precipitates

Property: Fast
Retention range: 7 to 12 μm
Weight: 160 g/m²
Thickness: 0.36 mm

Type	Dimensions mm	Order No.	PU pc/Pack
Folded filter 591 1/2	Ø 185	25 02 06206	50
Folded filter 591 1/2	Ø 240	25 02 06207	50
Sheet 591	580 x 580	25 02 10015	250

❗ Available only in original packaging units. No fractions possible.



* entspricht bzgl. Dicke, Partikelaufnahme und Belastbarkeit der Sorte 3



Filter papers for qualitative analysis, type 597 (round, sheets)

- Slightly thicker and faster than Grade 1
- For medium-fine precipitates

Property: Medium-fast
Retention range: 4 to 7 μm
Weight: 82 g/m²
Thickness: 0.19 mm

Type	Dimensions mm	Order No.	PU pc/Pack
Round filter 597	Ø 55	25 02 04600	100
Round filter 597	Ø 90	25 02 04602	100
Round filter 597	Ø 110	25 02 04603	100
Round filter 597	Ø 150	25 02 04605	100
Round filter 597	Ø 185	25 02 04606	100
Round filter 597	Ø 240	25 02 04607	100
Sheet 597	580 × 580	25 02 10019	500
Sheet 597	580 × 580	25 02 11897	100

❗ Available only in original packaging units. No fractions possible.

Filter papers for qualitative analysis, type 597 ½ (folded)

- Time-saving because folded filters have more area available than comparable circle filters, for faster filtration
- For medium-fine precipitates

Grade: Folded filter 597 ½
Property: Medium-fast
Retention range: 7 to 12 μm
Weight: 82 g/m²
Thickness: 0.19 mm

Ø mm	Order No.	PU pc/Pack	Ø mm	Order No.	PU pc/Pack
90	25 02 06602	100	240	25 02 06607	100
110	25 02 06603	100	270	25 02 06608	100
125	25 02 06604	100	320	25 02 06609	100
150	25 02 06605	100	385	25 02 06610	100
185	25 02 06606	100	500	25 02 06612	100

❗ Available only in original packaging units. No fractions possible.

Filter papers for qualitative analysis, type 598 ½ (folded, sheets)

- Thick filter paper
- For the fast filtration of coarse precipitates

Property: Medium-fast
Retention range: 7 to 12 μm
Weight: 80 g/m²
Thickness: 0.32 mm

Type	Dimensions mm	Order No.	PU pc/Pack
Folded filter 598 ½	Ø 125	25 02 06704	50
Folded filter 598 ½	Ø 185	25 02 06706	50
Folded filter 598 ½	Ø 240	25 02 06707	50
Folded filter 598 ½	Ø 500	25 02 06712	50
Sheet 598	580 × 580	25 02 10021	250

❗ Available only in original packaging units. No fractions possible.

Filter papers for qualitative analysis, type 602 h (round, folded)

- Thick filter paper
- For fine precipitates

Property: Slow
Retention range: < 2 μm
Weight: 85 g/m²
Thickness: 0.15 mm

Type	Ø mm	Order No.	PU pc/Pack
Round filter 602 h	90	25 02 04902	100
Round filter 602 h	125	25 02 04904	100
Round filter 602 h	185	25 02 04906	100
Folded filter 602 ½ h	125	25 02 06804	100
Folded filter 602 ½ h	150	25 02 06805	100
Folded filter 602 ½ h	185	25 02 06806	100
Folded filter 602 ½ h	240	25 02 06807	100

❗ Available only in original packaging units. No fractions possible.



Phase separating paper, Grade 1 PS (round filters)

Phase separation paper 1 PS holds water back while letting solvents flow through. In many applications it can replace the separating funnel.

Properties:

Water-repellent filter paper

Applications:

For the quick separation of aqueous solutions from organic solvents which cannot be mixed with water. Permeable for the organic phase only. Any fine solid particles in the organic phase may also be filtered in the process.

Ø mm	Order No.	PU pc/Pack
90	25 02 10090	100
125	25 02 10125	100
150	25 02 10150	100

Ø mm	Order No.	PU pc/Pack
185	25 02 10185	100
240	25 02 10240	100

❗ Available only in original packaging units. No fractions possible.

Filtering papers for quantitative analysis, hardened, low ash content

These papers are acid hardened after production for higher chemical resistance and wet strength. Max. ash 0.025%. Their tough, smooth surfaces make them particularly ideal for winning preparations in Büchner filtrations.

Quantitative filter paper, Grade 50 (circle filter)

The thinnest of all Whatman filter papers with a slow flow rate and good particle retention. The hardened surface keeps the paper virtually free from loose fibres. In the electronics industry this filter paper is used as a component carrier.

Ø mm	Order No.	PU pc/Pack
55	25 02 50055	100
70	25 02 50070	100
90	25 02 50090	100
110	25 02 50110	100

Ø mm	Order No.	PU pc/Pack
125	25 02 50125	100
150	25 02 50150	100
185	25 02 50185	100
240	25 02 50240	100

❗ Available only in original packaging units. No fractions possible.

Filter papers for quantitative analysis, type 52 V (folded)

General-purpose prepleated filter paper with medium retention and filtration flow rate.

Ø mm	Order No.	PU pc/Pack
125	25 02 52125	100

Ø mm	Order No.	PU pc/Pack
185	25 02 52185	100

❗ Available only in original packaging units. No fractions possible.

Filter papers for quantitative analysis, type 54 (round)

Very fast filtration for use with coarse or gelatinous precipitates. High wet strength makes this grade very suitable for Büchner applications. High chemical resistance. Not suitable for fine precipitates.

Ø mm	Order No.	PU pc/Pack
55	25 02 54055	100
70	25 02 54070	100
90	25 02 54090	100
110	25 02 54110	100

Ø mm	Order No.	PU pc/Pack
125	25 02 54125	100
150	25 02 54150	100
185	25 02 54185	100
240	25 02 54240	100

❗ Available only in original packaging units. No fractions possible.

Filter papers for quantitative analysis, type 54 V (folded)

Prepleated version of Grade 54.

Ø mm	Order No.	PU pc/Pack
125	25 02 55125	100
150	25 02 55150	100
185	25 02 55185	100

Ø mm	Order No.	PU pc/Pack
270	25 02 55270	100
320	25 02 55320	100
500	25 02 55500	100

❗ Available only in original packaging units. No fractions possible.



Round filters for quantitative analysis, hardened, ash-free

This is a high quality quantitative paper with a 0.006% ash maximum in combination with high wet strength and chemical resistance. Their tough surfaces make them suitable for a wide range of critical filtration procedures.

Circle filter, Grade 540

The general purpose ashless filter paper with medium retention and flow rate. Frequently used in the analysis of metals and in critical quantitative analyses. Also suitable for the separation of hydroxides.

Ø mm	Order No.	PU pc/Pack
90	25 02 56090	100
110	25 02 56110	100
125	25 02 56125	100

Ø mm	Order No.	PU pc/Pack
150	25 02 56150	100
185	25 02 56185	100

❗ Available only in original packaging units. No fractions possible.

Round filters for quantitative analysis, Grade 541

Fast filtration and good retention of coarse particles and gelatinous precipitates in acid/alkali solutions. Typical applications include the determination of protein content, cement analyses and the determination of fibre content in animal foodstuffs.

Ø mm	Order No.	PU pc/Pack
55	25 02 57055	100
70	25 02 57070	100
90	25 02 57090	100
110	25 02 57110	100

Ø mm	Order No.	PU pc/Pack
125	25 02 57125	100
150	25 02 57150	100
185	25 02 57185	100
240	25 02 57240	100

❗ Available only in original packaging units. No fractions possible.

Round filters for quantitative analysis, Grade 542

Efficient retention of fine particles in solutions (strong acid/alkali solutions). Slow flow rate but suitable for critical applications.

Ø mm	Order No.	PU pc/Pack
55	25 02 58055	100
70	25 02 58070	100
90	25 02 58090	100
110	25 02 58110	100

Ø mm	Order No.	PU pc/Pack
125	25 02 58125	100
150	25 02 58150	100
185	25 02 58185	100
240	25 02 58240	100

❗ Available only in original packaging units. No fractions possible.

Activated carbon paper, type 72 (round filters)

Ø mm	Order No.	PU pc/Pack
110	25 02 72110	100

Ø mm	Order No.	PU pc/Pack
150	25 02 72150	100

❗ Available only in original packaging units. No fractions possible.

Filter papers for qualitative analysis, type 551 (round), black

- Verification of ultra-fine traces of white precipitates, e.g. silicium/flouride (waterdrop sampling)
- Detection of mycel fibres in mold fungus
- Determination of the antiseptic effectiveness of wood impregnations against fungal infection

Grade: Circle filter 551
Property: Colored black
Weight: 95 g/m²

Ø mm	Order No.	PU pc/Pack
90	25 02 03202	100

❗ Available only in original packaging units. No fractions possible.

