

Cellulose Filter Papers at a glance

Use the charts below to quickly narrow down our range of cellulose filter papers by pore size, or see which grades are equivalent across different brands

Qualitative Filter Papers – for general filtration tasks

Whatman Grade	Camlab Grade	Pore size (µm)	Recommended uses / Application Notes	Additional Notes	Machery Nagel Equivalent Grade	Sartorius Equivalent Grade	Schleicher & Schuell (S&S) Equivalent Grade
No 1	Grade 601	11	The most widely used filter paper for routine applications with medium retention and flow rate.		MN 615	292	595
No 2	Grade 113	8	More absorbent than Grade 1 - utilized, for example, to hold soil nutrient in plant growth trials.	Pre-folded; Whatman 2V or Camlab 113P	MN 616	292a	597
No 3	Grade 1103	6	Thicker paper and increased wet strength, making this grade ideal for use in Büchner funnels.		MN 618	3S/H	598
No 4	Grade 111	20 - 25	Fast filtering with retention of coarse particles, used as a rapid filter for routine clean-up of biological fluids or coarse precipitates like hydroxides.		MN 617	1288	604
No 5	Grade 118	2.5	Very fine particle retention. Used to clarify cloudy suspensions for water or soil analysis.		MN 619 de	-	602H
No 6	Grade 114	3	Twice as fast as Grade 5 with fine particle retention. Often specified for boiler water analysis applications.		-	-	594
No 591	-	7 - 12	Thick paper with high loading capacity. Offers high absorbency and increased wet strength.		-	-	-
Nos 91 93	-	10	Wet strengthened with intermediate pore size.		-	-	859
No 113	Grade 304	30	Wet strengthened, ultra high loading capacity, used for coarse or gelatinous precipitates. Fastest flow rate and thickest paper of the range.	Pre-folded; Whatman 113V or Camlab 1101P	-	-	520 b II
No 114	Grade 122	25	Wet strengthened, used for coarse or gelatinous precipitates. Smooth surface for precipitate recovery.	Pre-folded; Whatman 114V or Camlab 122P	-	-	503 (folded; 503 ½)
No 595	-	4 - 7	Thin paper used for routine analytical separations e.g. food extracts or solids in digested environmental samples	Pre-folded; Whatman 595.5	-	-	-
No 597	-	4 - 7	For analytical routine applications e.g. fat content or CO ₂ and turbidity removal from beverages.	Pre-folded; Whatman 597.5	-	-	-
No 602h	-	< 2	Collecting very small particles and removing fine precipitates, e.g. residual sugar determination, HPLC or refractometric analysis.	Pre-folded; Whatman 602H.5	-	-	-

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Cellulose Filter Papers at a glance

Quantitative Filter Papers – high purity for analytical work, or ashless for gravimetric analyses

Whatman Grade	Camlab Grade	Pore size (µm)	Recommended uses / Application Notes	Additional Notes	Machery Nagel Equivalent Grade	Sartorius Equivalent Grade	Schleicher & Schuell (S&S) Equivalent Grade
No 40	Grade 13	8	Gravimetric analysis, primary filter to separate solid matter in soil analysis, quantitative determination of sediment in milk		MN 640 md	389	589/5
No 41	Grade 11	20 - 25	The fastest quantitative paper, for coarse particles, gelatinous precipitate, or air pollution analysis		MN 640 w	388	589/1
No 42	Grade 15	2.5	The finest particle retention, used for barium sulphate precipitation, metastannic acid precipitation, or fine CaCO ₃		MN 640 d	393	589/3
No 43	Grade 12	16	Intermediate retention for foodstuffs or soil analysis or particle collection for air pollution monitoring		MN 640 m	389	589/2
No 44	Grade 14	3	A thin version of No 42, retains fine particles but with less ash weight per sample and nearly 2x flow rate		MN 640 dd	390	589/6
No 50	Grade 155	2.7	Hardened and slightly glazed surface, for retention of fine crystalline precipitates. Highly suited to vacuum filtration – withstands wet handling and scraping to remove precipitate		-	391	1575
No 52	Grade 153	7	General purpose hardened filter paper with medium retention and flow		-	392	1574
No 54	Grade 151	22	Fast filtration of coarse or gelatinous precipitates with high wet strength for vacuum filtration of difficult precipitates.		-	388	1573
No 540	Grade 53	8	General purpose hardened ashless paper with medium retention and flow. Extremely pure and strong hard surface.		-	392	1506 or 589/2
No 541	Grade 51	22	Fast filtration of coarse particles and gelatinous precipitates in acid/alkali solutions during gravimetric analysis.		-	388	1505 or 589/1
No 542	Grade 55	2.7	High retention of fine particles. Hard, strong surface with excellent chemical resistance.		-	391	1507
No 589/1	-	12-25	The established standard for coarse precipitate qualitative analysis, e.g. ash content of food, Blaine test in cement		-	-	-
No 589/2	-	4-12	Ashless paper for medium-fine precipitates. Used for sand content in foodstuff, flour grades, and aqueous suspensions in the paper industry.		-	-	-
No 589/3	-	2	Slow filtration with high efficiency in collecting small particles.		-	-	-

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