

Filter Paper

Ahlstrom Brand Cross Reference Guide

Summary of Grades				
Filtration Speed	Slow	Medium	Fast	Very Fast
Particles Retained	Fine	Medium	Coarse	Coarse and Gelatinous
Qualitative	610	601	631	617
Quantitative	94	74	54	—

Conversion tables are provided to guide you in selecting the Ahlstrom grade that is most closely equivalent to your current brand of filter paper. Please note that grade comparisons between manufacturers are approximations based upon generally accepted industry practices. These comparisons are based upon laboratory data for thickness, basis weight and flow rate and have been substantiated through testing by Ahlstrom. No two grades from different manufacturers are exact matches in items of all physical properties. Data supporting the grade comparisons are available upon request.



Whatman		Whatman		Reeve-Angel	
Whatman Grade	Ahlstrom Grade	Whatman Grade	Ahlstrom Grade	Reeve-Angel Grade	Ahlstrom Grade
1	601	20	151	200	610
2	642	25	171	201	613
2V	542	30	161	202	615
3	237	31	111	230	617
3MM	238	32	121	801	513
4	631	34, 29	131	802	515
5	610	300	320	830	517
17CHR	243	410	905	934-AH	161
40	74	470	222		
41	54	520	515		
42	94	560	513		
43	64	588	505		
44	84	589 B.H.	55		
50	95	589 W.H.	75		
52	75	589 Black Ribbon	54		
54	55	589 Blue Ribbon	94		
91	615	589 Red Ribbon	95		
92	1336	589 White Ribbon	74		
93	613	591-A	601		
111	915	593-A	238		
111V	515	596	909		
113	917	597	601		
113V	517	602	610		
540	75	604	631		
541	55	606	505		
542	95	GB003	222		
GF/A	111	Sharkskin	992		
GF/B	121				
GF/C	131				
GF/D	141				
GF/F	151				
934-AH	161				
1PS	8600				

Micro Filtration Systems	
MFS Grade	Ahlstrom Grade
1	631
2	601
3	74
4A	95
5A	54
5B	74
5C	94
131	238
232	642
235	610
GA-55	111
GB-140	121
GF-75	151
GD-120	141
GS-25	164
GC-50	131

Ahlstrom Filter Papers

Electrophoresis, Blotting and Chromatography Grades (E-B/C)					
Grade	222	237	238	320	601
Weight (g/m ²)	290	183	183	702	88
Thickness (mm)	0.83	0.41	0.35	2.45	0.18
Flow Rate (ml/min)	180	60	35	220	55
Capillary Rise (mm/min)	52	27	24	79	24
Composition % Cotton Fiber	100	100	100	100	100
Application	Blotting	Blotting Wicking	Blotting Wicking	Blotting	Drying Spacing Chromatography

100% Binder-Free Glass Fiber Filter Paper								
Grade	100	111	121	131	141	151*	161**	171
Weight (g/m ²)	20	56	142	53	123	88	68	70
Flow Rate (ml/min)	450	120	45	75	400	20	100	80
Flow Rate (sec./100 ml)	—	57	152	91	29	343	68	—
Capillary Rise (mm/min)	48	51	50	44	79	35	52	49
Retention (µm)	1.5	1.2	1.0	1.0	3.1	0.7	1.1	1.0
Frazier Air Flow (cfm/ft ²)	11	5	2.3	2.8	11.5	1.4	3.6	4.4

*Grade 151 is recommended for use in the TCLP procedure as described in "Test Methods for Evaluating Solid Wastes, EPA Method No. 1311." Certificates of Compliance are available upon request.
 **Grade 161 is ideally suited for air and pollution monitoring. It is recommended for use in suspended solids and dissolved solids testing as described in Method 209 of "Standard Methods for the Analysis of Water and Wastewater." Certificates of Compliance are available upon request.

Rapid Grade Location Chart	
Grade	Applications
54	All quantitative (ashless) grades
55	
64	
74	
75	
84	
94	
95	All glass fiber grades
100	
111	
121	
131	
141	
151	
161	E-B/C E-B/C, QUAL E-B/C E-B/C QUAL QUAL QUAL QUAL QUAL QUAL QUAL
171	
222	
237	
238	
320	
601	
613	
615	
617	
631	
637	
642	
950	
992	

Qualitative Grades												
Grade	237	601	610	613	615	617	631	637	642	950	992	
Weight (g/m ²)	183	88	95	70	70	123	88	95	95	88	46	
Thickness (mm)	0.41	0.18	0.18	0.17	0.25	0.51	0.23	0.38	0.20	0.19	0.15	
Flow Rate (ml/min)	60	55	4	60	235	360	200	670	30	14	130	
Flow Rate (sec./100 ml)	114	124	1724	114	29	19	34	—	229	491	—	
Capillary Rise (mm/min)	27	24	13	25	36	48	38	56	18	13	16	
Retention (µm)	3	2.5	1.5	6	25	35	10	48	2	2	43	
Surface†	S	S	S	S	C	C	S	C	S	S	C	
Composition % Cotton Fiber % Wood Fiber	100 0	100 0	100 0	70 30	70 30	60 40	100 0	60 40	100 0	40 60	0 100	
Average Ash Content (%)	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	n/a	n/a	

†NOTE: S = Smooth. C = Creped.

Quantitative (Ashless) Grades									
Grade	Ashless					Hardened Ashless			
	54	64	74	84	94	55	75	95	
Weight (g/m ²)	88	88	95	88	95	82	86	81	
Thickness (mm)	0.23	0.18	0.20	0.19	0.18	0.19	0.20	0.17	
Flow Rate (ml/min)	200	55	30	11	4	235	40	14	
Flow Rate (sec./100 ml)	34	—	229	—	1724	29	171	491	
Capillary Rise (mm/min)	38	24	18	11	13	33	22	16	
Retention (µm)	10	4	2	3	1.5	15	2	1.5	
Composition % Cotton Fiber	100	100	100	100	100	100	100	100	
Maximum Ash Content	0.012%	0.012%	0.012%	0.012%	0.012%	0.012%	0.012%	0.012%	

NOTE: Specifications given are typical values that fall within a defined range. For this reason observed values may vary slightly.