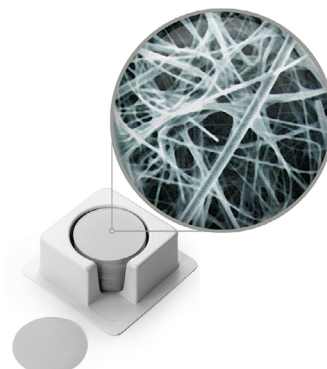


GLASS FIBER FILTERS

Glass fiber filters are made of pure borosilicate fibers and are available in a wide range of flow rates and nominal pore sizes. The glass filter membranes below are available with or without binder resins and each membrane disc filter can be sterilized by EtO, gamma, or autoclave.

Qualitative and quantitative **cellulose filter papers** (see p. 25) are offered in a variety of grades for different separation applications. Quantitative papers are most often used to perform gravimetric analysis while the qualitative filter papers are used to determine particulates in liquid and gas samples.



GLASS FIBER FILTER SPECIFICATIONS

Grade	Nominal Retention	Thickness	Weight (g/m ²)	H ₂ O Flow ¹	Gas Collection Efficiency	Pressure Drop ²	Max. Operating Temp.	Binder	Applications/Features
Sterlitech Filters									
A	1.6 µm	0.30 mm	55	12 s	-	-	475°C	NONE	Precipitate proteins, cell filtration
B	1.0 µm	0.65 mm	140	30 s	-	-	475°C	NONE	Collection of biochemical polymers, prefiltration
A-E	1.0 µm	0.33 mm	60	15 s	-	-	475°C	NONE	Suspended solids, air monitoring
934-AH®	1.5 µm	0.43 mm	64	47 s	-	-	475°C	NONE	Suspended solids standard and related measures (SM 2540D, EPA Methods 160.2)
C	1.2 µm	0.28 mm	50	25 s	-	-	475°C	NONE	RIA procedures, harvesting lymphocytes
D	2.7 µm	0.50 mm	120	5 s	-	-	475°C	NONE	High-volume and repetitive lab filtration
E	1.5 µm	0.35 mm	70	12 s	-	-	475°C	NONE	Suspended particle analysis in H ₂ O, cell harvesting, prefiltration, air monitoring
F	0.7 µm	0.40 mm	80	80 s	-	-	475°C	NONE	Diluted aq. solutions (strong oxidizing/acidic/alkaline), laser spectroscopy
TSS	1.5 µm	0.43 mm	64	47 s	-	-	475°C	NONE	Total suspended solids; SM 2540D, EPA Method 160.2
VSS	1.5 µm	0.43 mm	64	47 s	-	-	550°C	NONE	Volatile suspended solids; SM2450E/C/D, EPA Method 1602
Advantec Filters									
DP-70	0.6 µm	0.52 mm	170	20 s	-	53	120°C	ORGANIC	High wet-strength, high loading capacity
GA-55	0.6 µm	0.21 mm	55	23 s	99.9%	34	500°C	NONE	General purpose paper
GA-100	1.0 µm	0.44 mm	110	11 s	96%	20	500°C	NONE	General purpose paper
GA-200	0.8 µm	0.75 mm	175	15 s	99.99%	36	500°C	NONE	Thick filter
GB-100R	0.6 µm	0.40 mm	95	15 s	99.99%	30	500°C	NONE	Low trace metal content of As, Pb, and Cd
GB-140	0.4 µm	0.56 mm	140	58 s	99.99%	113	500°C	NONE	vs. GB-100R: Thicker, greater wet-strength, slower filtration speed
GC-50	0.5 µm	0.19 mm	48	28 s	99.99%	53	500°C	NONE	Prefilter
GC-90	0.5 µm	0.30 mm	100	20 s	99.99%	42	120°C	ORGANIC	High wet-strength
GD-120	0.9 µm	0.51 mm	123	14 s	97%	17	500°C	NONE	High wet-strength, high loading capacity
GF-75	0.3 µm	0.35 mm	75	84 s	99.999%	170	500°C	NONE	Most retentive grade
GS-25	0.6 µm	0.22 mm	70	15 s	99.9%	32	120°C	ORGANIC	Limited dirt-holding capacity, high wet-strength
TCLP	-	-	-	-	-	-	-	-	Binder-free, meets US EPA requirements for TCLP
Weighing Paper	-	-	-	-	-	-	-	-	Powdered samples, nitrogen-free, folds easily
QR-100	-	0.38 mm	85	-	99.99%	46	1,000°C	NONE	Quartz fiber filter
QR-200	-	1.0 mm	200	-	99.99%	35	1,000°C	INORGANIC	Quartz fiber filter

¹ The time in seconds (s) to filter 100 mL of distilled H₂O at 20°C under pressure supplied by a 10 cm water column through a 10 cm² section of filter

² Measured as mm H₂O/5 cm/s

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