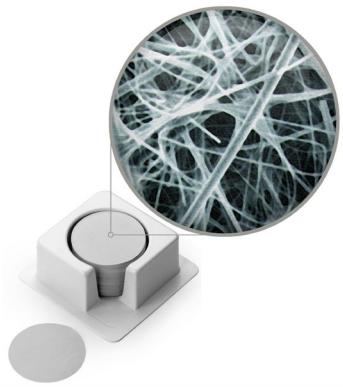
GLASS FIBER FILTERS

Glass fiber filters are composed of pure borosilicate fibers, with or without organic resin binder.

Sterlitech and Advantec brand glass fiber filters are available in a variety of nominal pore size ratings and flow rates. Binderless glass fiber filters offer high purity and exceptional thermal/chemical resistance. Glass fiber filters with organic resin binder have limited resistance but improved wet strength and reduced potential for fiber shedding.

Due to their superior throughput compared to other fiber filters, glass fiber filters are typically used in removal of sediment and coarse particulate. They are also commonly utilized in pre-filtration prior to membrane filtration for food, beverage, life science, and biopharmaceutical applications.



Grade	Features & Applications	Nominal Retention (µm)	Thickness (mm)	Weight (g/m^2)	Water Flow[1]	Max. Operating Temp.	Binder	Whatman Equivalent
Sterlitech								
934 AH	Standard for suspended solids content and related measurements (SM 2540D and EPA Methods 160.2).	1.5	0.43	64	47	550°C	None	934-AH
Grade A	Precipitate proteins and cell filtration, scintilliation counting, determination of airborne particulate.	1.6	0.3	55	12	475°C	None	GF/A
Grade A-E	Suspended solids and air monitoring. HEPA type air filter.	1	0.33	60	15	475°C	None	-
Grade B	Collection of denatured biochemical polymers. Gas filter or prefilter.	1	0.65	140	30	475°C	None	GF/B
Grade C	RIA procedures and harvesting lymphocytes.	1.2	0.28	50	25	475°C	None	GF/C
Grade D	Higher volume and repetitive laboratory filtering. General prefilter.	2.7	0.6	120	5	475°C	None	GF/D
Grade E	Suspended particle analysis in water, cell harvesting, prefiltration and air monitoring applications.	1.5	0.35	70	12	475°C	None	-
Grade F	Diluted aqaueous solutions containing strong oxidizing, acidic, or alkaline components prior to laser spectroscopy. Meets requirements for EPA Method 1311 (TCLP).	0.7	0.4	80	80	475°C	None	GF/F
TCLP	Acid treated and multi-stage deionized water rinsed. Meets requirements for US EPA Method 1311.	0.7	0.4	80	80	475°C	None	GF/F
Grade TSS	Designed for EPA Methods 2540C and 2540D for testing dissolved and suspended solids in water and wastewater. Excellent wet strength. HEPA type air filter.	1.5	0.43	64	47	475°C	None	-
Grade VSS	Meets requirements for Standard Method 2540E, 2540C, 2540D, and EPA Method 160.2. Air pollution monitoring, high temperature flue gas and filtration of high temperature solvents.	1.5	0.43	64	47	550°C	None	-
Advantec™								
DP-70	High wet strength, very high loading capacity. Dust measurement.	0.6	0.52	170	20	120°C	Organic	-
GA-55	General purpose paper, air pollution monitoring. HEPA type air filter.	0.6	0.21	55	23	500°C	None	GF/A
GA-100	General purpose paper. Filter precipitated proteins or cells. Air pollution monitoring.	1	0.44	110	11	500°C	None	-
GA-200	Thick filter. Viscous fluid filtration (sugars and gels). HEPA type air filter.	0.8	0.74	175	15	500°C	None	-
GB-100R	Low trace metal content of As, Pb, and Cd. High and low volume aerosol testing for airborne dust and metal contaminants. DNA/RNA and protein precipitate filtration. HEPA type air filter.	0.6	0.4	95	15	500°C	None	EPM2000
GB-140	Compared to GB-100R: Thicker, greater wet strength, slower filtration speed. Industrial waste analysis. HEPA type air filter.	0.4	0.56	140	58	500°C	None	GF/B
GC-50	Common prefilter (for 0.45 µmm or smaller pore sizes). Scintillation counting. Suspended solids analysis of industrial water and wastewater. HEPA type air filter.	0.5	0.19	48	28	500°C	None	GF/C, 934-AH
GC-90	High wet strength. Filter for clinical screening. HEPA type air filter.	0.5	0.3	100	20	120°C	Organic	-
GD-120	High wet strength, very high loading capacity. Common prefilter (for 1.2 µm or smaller pore sizes).	0.9	0.51	123	14	500°C	None	GF/D
GF-75	Most retentive grade. Suitable for collection of IgC and other very fine protein precipitates. Clarifies chemically aggressive solutions. Meets requirements for TCLP (EPA method 1311). HEPA type air filter.	0.3	0.35	75	84	500°C	None	GF/F
GS-25	Limited dirt holding capacity, high wet strength. Common prefilter (for 0.65 µm or smaller pore sizes). HEPA type air filter.	0.6	0.22	70	15	120°C	Organic	-
QR100 (Quartz)	Superior chemical resistance. Acidic gas sampling at high (>500°C) temperatures, pollution analysis. Pre-fired at 1000°C for 2 hours to reduce organic contamination. HEPA type air filter.	-	0.38	85	-	1000°C	None	GM-A
QR200 (Quartz)	Superior chemical resistance, does not absorb acidic gases. Sample acidic gases at high (>500°C) temperatures, pollution analysis. HEPA type air filter.	-	1	200	-	1000°C	Inorganic	-

1. The time in seconds to filter 100 mL of distilled H_20 at 20°C under pressure supplied by a 10 cm water column through a 10 cm^2 section of filter