

GLASS MICROFIBER FILTERS

Features

- Made of borosilicate glass microfiber without binders or with binders.
- Stability at high temperatures: It keeps its properties up to 500°C and 550°C.
- Usable as Pre-filter for membranes to prevent the membranes from silting up.
- The large surface area provides an outstanding retention capacity.
- High flow speed and high permeability to air.
- Reduce filtration costs and premature clogging when filtering difficult-to-filter or highly contaminated solutions.
- Excellent wet strength for easy handling and filter integrity.

Grade GF-A

Glass Microfiber Filter Grade GF-A; highly efficient for general laboratory filtration. It is useful for the clarification of buffer and reagent solutions. Corresponds to many international standards for air and water pollution monitoring.

Grade GF-AE

Glass Microfiber Filter Grade GF-AE; binderless borosilicate glass microfiber. Fine porosity and fast flow rate, with a 1.0µm size particle retention. DOP efficiency is 99.98%. Primarily used in suspended solids and air monitoring.

Grade GF-B

Glass Microfiber Filter Grade GF-B; thicker than GF-A with higher wet strength and significantly increased loading capacity. Suitable for filtration of large volumes. Pre-filter for membranes. Filtration of suspended solids in water/wastewater analysis.

Grade GF-C

Glass Microfiber Filter Grade GF-C; the standard filter in many parts of the world for the collection of suspended solids in potable water and natural and industrial wastes. Widely used for cell harvesting, liquid scintillation counting, and binding assays where more loading capacity is required.

Grade GF-D

Glass Microfiber Filter Grade GF-D; universal membrane pre-filter material. Filtration in the food industry.

Grade GF-F

Glass Microfiber Filter Grade GF-F; it is the material upon which the EPA Method TCLP 1311 for Toxicity. Use for filtering extremely fine precipitates such as protein, nucleic acids, or serum precipitates.



Grade GF-VSS®

Glass Microfiber Filter Grade GF-VSS; a binder-free material manufactured using proprietary glass chemistry which permits usage in high heat applications beyond typical borosilicate glass blends. Ideally suited for determination of “Fixed & Volatile Solids Ignited at 550°C Method 2540E. Low fiber shedding improves quality assurance of test results and a low percentage of weight loss when used in gravimetric tests. High loading capacity is an attribute of the high surface area and complex pore structure. Material is also compliant with the requirements of standard methods 2540C & 2540D and EPA Method 160.2 for establishing water quality in suspended solids content. Total Suspended Solids (TSS) are defined as those which are retained by a “glass-fiber filter disk without organic binder”. Also widely used in air pollution monitoring, high-temperature flue gas, and filtration of high-temperature solvents.

Grade GF-934AH®

Glass Microfiber Filter Grade GF-934AH; fine porosity, fast flow rate, with a 1.5µm size particle retention. This material is the standard for volatile suspended solids content and related measurements (Standard Methods 2540D and EPA Method 160.2). Also widely used in cell harvesting applications and RIA scintillation counting. Binderless borosilicate glass microfiber enables the use of up to 550°C.

Grade GF-TSS

Glass Microfiber Filter Grade GF-TSS; binderless and high efficiency (HEPA type) filter. Designed for EPA Methods 2540C and 2540D for testing dissolved and suspended solids in water and wastewater. High flow rate with high capacity. The media has no added extractable to aid in the elimination of sample contamination. Excellent wet strength. Other common applications include gravimetric analysis of air pollutants, membrane support pads, membrane prefilters, clarification of reagent and buffer solutions, filtration of eluent for HPLC, and moisture analysis pads.

Specification

Grade	Thickness (mm)	Pore Size (µm)	Weight (g/m ²)	Maximum Temperature (°C)	Nominal Air Flow Rate (s/100 ml/cm ²)*	Typical Water Flow Rate (ml/min/cm ²)*
GF-A	0,29	1,6	56	500	0,7	5,00
GF-AE	0,33	1,0	60	500	0,6	3,46
GF-B	1,00	1,0	140	500	1,9	1,27
GF-C	0,28	1,2	54	500	1,0	3,70
GF-D	0,53	2,7	120	500	0,4	10,70
GF-F	0,40	0,7	75	500	2,9	0,64
GF-VSS	0,43	1,5	64	550	0,6	5,36
GF-934AH	0,43	1,5	64	550	0,6	5,36
GF-TSS	0,43	1,5	64	500	0,6	5,36

*These values may vary a little according to the conditions of the experiment, and lot numbers.

Order Information



Part No.	Description	Quantity
GFA-16-2500	Glass Microfiber Filter GF-A (1.6 µm) 25 mm	100/pk
GFA-16-3700	Glass Microfiber Filter GF-A (1.6 µm) 37 mm	100/pk
GFA-16-4700	Glass Microfiber Filter GF-A (1.6 µm) 47 mm	100/pk
GFA-16-9000	Glass Microfiber Filter GF-A (1.6 µm) 90 mm	100/pk
GFA-16-12500	Glass Microfiber Filter GF-A (1.6 µm) 125 mm	100/pk
GFAE-10-2500	Glass Microfiber Filter GF-AE (1.0 µm) 25 mm	100/pk
GFAE-10-3700	Glass Microfiber Filter GF-AE (1.0 µm) 37 mm	100/pk
GFAE-10-4700	Glass Microfiber Filter GF-AE (1.0 µm) 47 mm	100/pk
GFAE-10-9000	Glass Microfiber Filter GF-AE (1.0 µm) 90 mm	100/pk
GFB-10-2500	Glass Microfiber Filter GF-B (1.0 µm) 25 mm	100/pk
GFB-10-3700	Glass Microfiber Filter GF-B (1.0 µm) 37 mm	100/pk
GFB-10-4700	Glass Microfiber Filter GF-B (1.0 µm) 47 mm	100/pk
GFC-12-2500	Glass Microfiber Filter GF-C (1.2 µm) 25 mm	100/pk
GFC-12-3700	Glass Microfiber Filter GF-C (1.2 µm) 37 mm	100/pk
GFC-12-4700	Glass Microfiber Filter GF-C (1.2 µm) 47 mm	100/pk
GFC-12-9000	Glass Microfiber Filter GF-C (1.2 µm) 90 mm	100/pk
GFC-12-12500	Glass Microfiber Filter GF-C (1.2 µm) 125 mm	100/pk
GFD-27-2500	Glass Microfiber Filter GF-D (2.7 µm) 25 mm	100/pk
GFD-27-3700	Glass Microfiber Filter GF-D (2.7 µm) 37 mm	100/pk
GFD-27-4700	Glass Microfiber Filter GF-D (2.7 µm) 47 mm	100/pk
GFF-07-2500	Glass Microfiber Filter GF-F (0.7 µm) 25 mm	100/pk
GFF-07-3700	Glass Microfiber Filter GF-F (0.7 µm) 37 mm	100/pk
GFF-07-4700	Glass Microfiber Filter GF-F (0.7 µm) 47 mm	100/pk
GFVSS-15-2500	Glass Microfiber Filter GF-VSS (1.5 µm) 25 mm	100/pk
GFVSS-15-3700	Glass Microfiber Filter GF-VSS (1.5 µm) 37 mm	100/pk
GFVSS-15-4700	Glass Microfiber Filter GF-VSS (1.5 µm) 47 mm	100/pk
GFVSS-15-7000	Glass Microfiber Filter GF-VSS (1.5 µm) 70 mm	100/pk
GFVSS-15-8260	Glass Microfiber Filter GF-VSS (1.5 µm) 82,6 mm	100/pk
GFAH-15-2500	Glass Microfiber Filter GF-934AH(1.5 µm) 25 mm	100/pk
GFAH-15-3700	Glass Microfiber Filter GF-934AH(1.5 µm) 37 mm	100/pk
GFAH-15-4700	Glass Microfiber Filter GF-934AH(1.5 µm) 47 mm	100/pk
GFAH-15-7000	Glass Microfiber Filter GF-934AH(1.5 µm) 70 mm	100/pk
GFAH-15-8260	Glass Microfiber Filter GF-934AH(1.5 µm) 82,6 mm	100/pk
GFTSS-15-2500	Glass Microfiber Filter GF-TSS (1.5 µm) 25 mm	100/pk
GFTSS-15-3700	Glass Microfiber Filter GF-TSS (1.5 µm) 37 mm	100/pk
GFTSS-15-4700	Glass Microfiber Filter GF-TSS (1.5 µm) 47 mm	100/pk
GFTSS-15-7000	Glass Microfiber Filter GF-TSS (1.5 µm) 70 mm	100/pk
GFTSS-15-8260	Glass Microfiber Filter GF-TSS (1.5 µm) 82,6 mm	100/pk

