

# *finetech* Micro-Glass Fiber Filters

## Glass Fiber Filters

Micro-glass fiber filters offer high efficiency, submicron particle retention combined with high permeability and high dust holding capacity. Micro-glass filters are made of high-purity borosilicate glass microfibers that are biologically inert and resistant to most solvents and reagents with the exception of hydrofluoric acid and highly concentrated alkali solutions.

Binder-free grades are temperature resistant to about 500°C. Grade MG 550 HA can withstand temperatures to 550°C.

### ❖ Micro-Glass Fibers without Binder

Model No.	Basic Weight (g/m <sup>2</sup> )	Thickness (mm)	Particle Retention in Liquids(μm)	Pressure Drop* (mbar)
MGA	52	0.23	1.6	38
MGB	143	0.70	1.0	95
MGC	52	0.24	1.2	55
MGD	120	0.53	2.7	140
MGF	75	0.45	0.7	120
MGG	65	0.28	1.5	30
MG 550-HA	65	0.3	1.5	-



■ Binder-free micro-glass fiber filters

\*A=10cm<sup>2</sup>, flow velocity 400cm<sup>2</sup>/sec

Application	Grades MGF	MG 550 HA
Staining of dyed papers		
Clarification filtration (biochemical)	•	•
Ligand binding test		
Solvent filtration	•	
Membrane pre-filters		
Specimen filtration (HPLC)	•	
Protein filtration	•	
Radio-immuno test		•
Scintillation counting		•
Cell harvesters	•	•
Carbohydrate analysis		

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Staining of dyed papers			•	
Clarification filtration (biochemical)				
Ligand binding test			•	
Solvent filtration	•			
Membrane pre-filters		•		•
Specimen filtration (HPLC)				
Protein filtration				
Radio-immuno test		•	•	
Scintillation counting	•	•		
Cell harvesters			•	
Carbohydrate analysis			•	

## Glass Fiber Filter for "TCLP"

### Ordering Information

Model No.	M-GF142N070M
Typical Applications	U.S. EPA Method 1311
Size	142mm
Filter Material	Borosilicate glass without binder
Thickness	0.45mm
Nominal Pore Size	0.7µm
Pressure Drop	120 bar
Filtration Speed(mis/min)	432µm (17mils)

### Cross Reference

Finetech®	Whatman	E-D Scientific Specialities	Advantec
M-GF142N070M	GF/F	151	GF 75



## Glass Fiber Filter for "SS" or "TSS"

### Ordering Information

Model No.	M-GHA047N150M
Size	47mm
Filter Material	Borosilicate glass without binder
Nominal Pore Size	1.5µm
Thickness	360~400µm
Water Flow Rate mL/min/cm <sup>2</sup> at 0.3 bar water	250
Air Flow Rate mL/min/cm <sup>2</sup> at 0.7 bar(70 kPa, 10psi)	60
Maximum Operating Temperature	Air-550°C
Typical Aerosol Retention	99.98%

### Cross Reference

Finetech®	Whatman	E-D Scientific Specialities	PALL
M-GHA047N150M	934-AH	161	A/E



- Standard Method 2540 D Suspended Solids

## Glass Filter for "TSP"

### Ordering Information

Model No.	M-GHA0810N150M
Size	8" x 10" (20 x 25cm)
Filter Material	Borosilicate glass without binder
Nominal Pore Size	1.5µm
Thickness	360~400µm
Water Flow Rate mL/min/cm <sup>2</sup> at 0.3 bar water	250
Air Flow Rate mL/min/cm <sup>2</sup> at 0.7 bar(70 kPa, 10psi)	60
Maximum Operating Temperature	Air-550°C
Typical Aerosol Retention	99.98%

### Cross Reference

Finetech®	Whatman	PALL
M-GHA0810N150M	EPM 2000	A/E



**B5-1**

Each filter is covered with PET pad, protecting the filter during transportation.

**B5-2**

With printed numbers for easy tracking.