

Quartz Fiber Filters

- **Highly resistant** to chemical attack, biologically inert
- **High Purity:** Very low trace metal content, does not adsorb NO_x and SO_x dioxides; Grade QR-100 is pre-fired at 1,000°C for 2 hours to reduce organic contamination
- **Easily sterilized:** Can be baked or autoclaved
- **Store indefinitely:** Unaffected by humidity

APPLICATIONS

- Sample acidic gases at high (>500°C) temperatures
- Air pollution analysis

ORDERING INFORMATION

Size	QR-200	QR-100
	Quantity/package	
21 – 150 mm diameter discs	50	100
8 x 10 inch sheets	S	50

S = Special order

Available in discs in the following diameters (mm): 21, 24, 26, 37, 45, 47, 55, 70, 90, 110, 125, 150.

Order by specifying first the grade of filter then the diameter, e.g. QR-200 125mm, QR100 21mm.

Composite Filter

- **Composite Filter PG-60** is specially developed for the measurement of dust concentration in the air
- **PTFE coated:** Naturally hydrophobic and unaffected by humidity

APPLICATIONS

- Air pollution analysis
- Air dust analysis

Note: Cannot be used for liquid filtration

ORDERING INFORMATION

Size	Quantity/package
21 – 70 mm diameter discs	100
90 – 150 mm diameter discs	50
300 x 300 mm sheets	10

Available in discs in the following diameters (mm): 21, 24, 25, 26, 37, 45, 47, 55, 70, 90, 110, 125, 150

Order by specifying first the grade of filter then the diameter, e.g. PG-60 90mm, PG-60 125mm.



Quartz fiber filters



Composite filters

SPECIFICATIONS: GLASS/QUARTZ FIBER FILTERS

Grade	Applications/Characteristics	Weight (g/m ²)	Thickness (mm)	Nominal Rating (µm)	Water Flow Time* ¹ (sec)
GA-55	Thin filter recommended for clarifying filtration Air pollution monitoring	55	0.21	0.6	23
GF-75	Highest collection efficiency grade offered Collection of very fine particles	75	0.35	0.3	84
GA-100	Faster filtration speed recommended for filtering viscous fluids	110	0.44	1.0	11
GA-200	Thick filter with high dust holding capacity recommended for filtering viscous fluids	175	0.74	0.8	15
GB-100R	High and low volume aerosols for airborne dust and metal contaminants Low trace metal contents	95	0.38	0.6	15
GB-140	High dust holding capacity recommended for SS(Suspended Solid) analysis	140	0.56	0.4	58
GC-50	Thin filter with high collection efficiency Prefilter for membrane filter Scintillation counting	48	0.19	0.5	28
GC-90	Filter with organic binder recommended for fine particles and aerosols Prefilter for membrane filter	100	0.30	0.5	20
GD-120	Medium collection efficiency grade Prefilter for membrane filter	123	0.51	0.9	14
GS-25	Filter with organic binder recommended for SS(Suspended Solid) analysis Higher strength and lower released fibers compared with no-binder grades	70	0.21	0.6	15
DP-70	Filter with organic binder recommended for high concentrated liquid of protein and other substances Prefilter for membrane filter	170	0.52	0.6	20
QR-200	Thick quartz fiber filter with inorganic binder Low adsorption Monitor airborne particulates	200	1.0	-	-
QR-100	Quartz fiber filter without binder Superior chemical resistance, does not adsorb acid gases	85	0.38	-	-

*1. Flow time is the time in seconds to filter 1,000 mL of distilled water at 20 °C under differential pressure of 39 kPa through a 9.6 cm² section of filter.

Collection Efficiency (%, 0.3 µm DOP)	Pressure Drop (kPa at 5 cm/sec)	Binder*	Maximum Operating Temperature (°C)	Conversion				
				Whatman	ex-Schleicher & Schuell	Pall	Millipore	Ahlstrom
99.9	0.33	None	500	934AH	31		APFA	111
99.999	1.67	None	500	GF/F	20		GFCP	151
96	0.20	None	500					
99.9	0.35	None	500					
99.99	0.30	None	500	EPM2000	1HV	A/E (Use for air)	AP40	
99.99	1.11	None	500	GF/B	32		APFB	121
99.99	0.52	None	500	GF/C 934 AH	30/25	A/E (Use for water)	AP40/ APFC	131
99.99	0.42	Organic	120				AP15	
97	0.17	None	500	GF/D	40		APFD	141
99.9	0.32	Organic	120	-			AP20	164
-	0.52	Organic	120	-			AP25	
99.9	0.34	Inorganic	1,000					
99.99	0.45	None	1,000	QM-A		Micro Quartz		

*Binder 1. Organic – Acrylic Acid Ester Emulsion

2. Inorganic – Alumina