

CA-tech ZONE

California Tech Zone

for your laboratory...



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PM2.5 PTFE Air Monitoring Filter

Specification

Filter Material	: Hydrophobic Polytetrafluoroethylene(PTFE)
Support Ring Material	: Polypropylene PP
Diameter	: $46.2 \pm 0.25\text{mm}$
Membrane Thickness	: $50 \pm 10\mu\text{m}$
Support Ring Thickness	: $0.38 \pm 0.04\text{mm}$
Width of Support Ring	: $3.68 \pm 0.51\text{mm}$
Pore	: $2 \mu\text{m}$
Aerosol Retention (0.3 μm)	: >99.7%
Flow Rate&Pressure Drop	: <30cm H ₂ O column @ 16.67L/min clean
Drop Test Wt. Stability	: <20 μg
Temp. Wt. Loss Stability	: <20 μg
Moisture Wt. Gain Stability	: <10 μg
Alkalinity	: <25 $\mu\text{eq/g}$

Order Information

Part Number#	Description
PM2.5-200-4620	: PM2.5 PTFE Filter

2 μm , 46.2mm with support ring,
sequentially numbered (50 pcs)



PVC Air Monitoring Filter

Specification

Filter Material	: Poly Vinyl Chloride (PVC)
Filter Color	: White
Filter Surface Type	: Plain
Method	: ASTM, NIOSH, and OSHA
Pore Size	: 5 μ m
Thickness	: 170-230 μ m
Porosity	: 80%
Ash Content	: <1%
Aerosol Retention	: 99.94%
Air Flow Rate	: 2.7 (L/min/cm ²)
Provided	: 25mm; 37mm; 47mm
Diameters*	: \pm 0.1mm

Diameters Accuracy Order Information

Part Number#	Description
PVC-500-3700-P	: PVC Air Monitoring Filter 5 μ m 37 mm (with supporting pad) (100/pk)



PTFE Membrane Filters

PTFE Membrane Filters for filtration are made of PTFE (polytetrafluoroethylene) and were drawn 2-dimension. It is a micro-pore film. The PTFE membrane was laminated with a great variety of fabric and paper. Applied to extensive industries, including air monitoring, biochemistry, microelectronic, lab material and etc. Directly and indirectly related to pharmacy brewing, manufacture of pure water and special need water, beverage and dairy, chemical reagent, biochemical reagent, air filtration of fermentation tank in microelectronic, purification and filtration in microelectronic plants, filtration and separation of antibacterial fluid, production of medicine, air conditioning of hospitals and commercial buildings.

Features

- PTFE membrane with supporting layer polyester or polypropylene
- PTFE membrane can effectively filtrate microorganisms and other particulates
- Wide chemical compatibility
- High-temperature resistance
- Low starting resistance

Applications

- Air monitoring.
- Filtration of strong acids and aggressive solutions.
- Venting applications.
- Phase separations.
- Aerosol sampling.

Specification

Membrane Material	Support	Pore Size (µm)	Average Bubble Point (Mpa)	Flow Rate (25°C) Δp:0.07Mpa (mL/min/cm ²)	Thickness (µm)
PTFE Hydrophobic	PP	0.1	0.2-0.22(Alcohol)	4-8	140-190
		0.22	0.13-0.17(Alcohol)	17-22	
		0.45	0.08-0.12(Alcohol)	35-45	
		1	0.04-0.06(Alcohol)	50-70	
		3	0.03-0.04(Alcohol)	90-120	
PTFE Hydrophilic	PP	5	0.02-0.03(Alcohol)	250-320	140-190
		0.22	0.34-0.45(Water)	10-18	
		0.45	0.2-0.3(Water)	25-35	
		1	0.12-0.15(Water)	45-65	

Order Information

Part Number#	Description
PTFE-022-2500	: Membrane Filter PTFE Hydrophobic (0.22µm)25 mm (200/pk)
PTFE-022-3700	: Membrane Filter PTFE Hydrophobic (0.22µm)37 mm (200/pk)
PTFE-022-4700	: Membrane Filter PTFE Hydrophobic (0.22µm)47 mm (200/pk)
PTFE-045-2500	: Membrane Filter PTFE Hydrophobic (0.45µm)25 mm (200/pk)
PTFE-045-3700	: Membrane Filter PTFE Hydrophobic (0.45µm)37 mm (200/pk)
PTFE-045-4700	: Membrane Filter PTFE Hydrophobic (0.45µm)47 mm (200/pk)
PTFE-100-2500	: Membrane Filter PTFE Hydrophobic (1 µm)25 mm (200/pk)
PTFE-100-3700	: Membrane Filter PTFE Hydrophobic (1 µm)37 mm (200/pk)
PTFE-100-4700	: Membrane Filter PTFE Hydrophobic (1 µm)47 mm (200/pk)
PTFE-300-2500	: Membrane Filter PTFE Hydrophobic (3 µm)25 mm (200/pk)
PTFE-300-3700	: Membrane Filter PTFE Hydrophobic (3 µm)37 mm (200/pk)
PTFE-300-4700	: Membrane Filter PTFE Hydrophobic (3 µm)47 mm (200/pk)
PTFE-500-2500	: Membrane Filter PTFE Hydrophobic (5 µm)25 mm (200/pk)
PTFE-500-3700	: Membrane Filter PTFE Hydrophobic (5 µm)37 mm (200/pk)
PTFE-500-4700	: Membrane Filter PTFE Hydrophobic (5 µm)47 mm (200/pk)

Please contact us for other diameters.

PVDF Membrane Filters

PVDF Membrane Filters so particularly microporous membranes, prepare to exhibit high efficiency for particle removal, and have low critical surface energy.

Conventional, hydrophobic, microporous PVDF membranes are not pass water, so they hold water.

Our PVDF Membrane Filters consist of a reinforced-type PVDF membrane. It can ensure wet air and other gas pass through smoothly, even when the differential pressure is very low. It holds the opposite capability against PVDF hydrophilic membrane.

Features

- Easy processing by extrusion, injection, compression, blow molding, the solution process
- PVDF Disc Filters have excellent mechanical properties
- High-temperature capabilities and excellent aging resistance
- Physiologically harmless and approved for contact with food products -Low extractable levels
- PVDF Disc Filters have wide chemical compatibility

Applications

- Chemical Process Industry (pipes and fittings, pumps, valves, etc.)
- High purity fluid transportation
- Lithium batteries
- Offshore oil industry (multilayer structures for oil and gas, etc.)
- Plumbing
- Wire and cables (communication cable jacket in the USA, etc.)

Specification

Membrane Material	Pore Size (µm)	Average Bubble Point (Mpa)	Flow Rate (25°C) Δp:0.07Mpa (mL/min/cm ²)	Thickness (µm)
PVDF Hydrophobic	0.22	0.12-0.15(Alcohol)	8-12	120-140
	0.45	0.06-0.10(Alcohol)	30-45	
PVDF Hydrophilic	0.22	0.36-0.42(Water)	8-15	120-140
	0.45	0.18-0.24(Water)	35-60	

Order Information

Part Number#	Description
PVDF-022-2500	: Membrane Filter PVDF Hydrophobic (0.22µm)25 mm (200/pk)
PVDF-022-3700	: Membrane Filter PVDF Hydrophobic (0.22µm)37 mm (200/pk)
PVDF-022-4700	: Membrane Filter PVDF Hydrophobic (0.22µm)47 mm (200/pk)
PVDF-045-2500	: Membrane Filter PVDF Hydrophobic (0.45µm)25 mm (200/pk)
PVDF-045-3700	: Membrane Filter PVDF Hydrophobic (0.45µm)37 mm (200/pk)
PVDF-045-4700	: Membrane Filter PVDF Hydrophobic (0.45µm)47 mm (200/pk)
PVDF-022-2500-W	: Membrane Filter PVDF Hydrophilic (0.22µm)25 mm (200/pk)
PVDF-022-3700-W	: Membrane Filter PVDF Hydrophilic (0.22µm)37 mm (200/pk)
PVDF-022-4700-W	: Membrane Filter PVDF Hydrophilic (0.22µm)47 mm (200/pk)
PVDF-045-2500-W	: Membrane Filter PVDF Hydrophilic (0.45µm)25 mm (200/pk)
PVDF-045-3700-W	: Membrane Filter PVDF Hydrophilic (0.45µm)37 mm (200/pk)
PVDF-045-4700-W	: Membrane Filter PVDF Hydrophilic (0.45µm)47 mm (200/pk)

Please contact us for other diameters.

Cellulose Acetate (CA) Membrane Filters

Cellulose Acetate Membrane Filters; are composed of pure cellulose acetate modified to offer researchers the lowest binding filters available. Due to the extremely low binding characteristics, these filters provide higher throughputs than competitive offerings and reduce filter changes when filtering protein solutions. Because of their unique strength and extremely low binding characteristics, CA (Cellulose Acetate) membrane filters are ideal for protein and enzyme filtration, tissue culture media sterilization, cold sterilization, biological fluid filtration, and other filtration applications where maximum recovery of proteins is critical.

CA (Cellulose Acetate) membranes are manufactured using a unique impregnation process that is internally supported by an inert polyester web that eliminates cracking, tearing, breaking, and distortion when handled or creased. Each filter has unequalled dimensional stability after autoclaving or steam sterilizing and is completely unaffected by temperatures up to 135°C (275°F). The exclusive impregnation process results in an acetate filter that has a burst strength of 130 psi, uniform pore size, and consistent flow rates for reliable performance.

Applications

- Protein and enzyme filtration, sterilization
- Biological fluid filtration sterilization
- Tissue culture media sterilization
- Diagnostic cytology
- Receptor binding studies
- Enhanced recovery of fastidious gram-positive organisms

Specification

Pore Size (µm)	Thickness (µm)	Bubble Point (Bar)	Water Flow Rate Δp:0.9 Bar (mL/min/cm ²)	Air Flow Rate Δp:3 mBar (mL/min/cm ²)
0.22	115	4	18.5	-
0.45	115	3.1	40	25
0.8	140	1.5	150	50
3	140	0.5	500	180
5	140	0.4	900	280

Order Information

Part Number#	Description
MF-CA-02213	: Cellulose Acetate Membrane Filter CA (0.22 µm)13 mm (100/pk)
MF-CA-02225	: Cellulose Acetate Membrane Filter CA (0.22 µm)25 mm (100/pk)
MF-CA-02247	: Cellulose Acetate Membrane Filter CA (0.22 µm)47 mm (100/pk)
MF-CA-02290	: Cellulose Acetate Membrane Filter CA (0.22 µm)90 mm (100/pk)
MF-CA-04513	: Cellulose Acetate Membrane Filter CA (0.45 µm)13 mm (100/pk)
MF-CA-04525	: Cellulose Acetate Membrane Filter CA (0.45 µm)25 mm (100/pk)
MF-CA-04547	: Cellulose Acetate Membrane Filter CA (0.45 µm)47 mm (100/pk)
MF-CA-04590	: Cellulose Acetate Membrane Filter CA (0.45 µm)90 mm (100/pk)
MF-CA-08013	: Cellulose Acetate Membrane Filter CA (0.80 µm)13 mm (100/pk)
MF-CA-08025	: Cellulose Acetate Membrane Filter CA (0.80 µm)25 mm (100/pk)
MF-CA-08047	: Cellulose Acetate Membrane Filter CA (0.80 µm)47 mm (100/pk)
MF-CA-08090	: Cellulose Acetate Membrane Filter CA (0.80 µm)90 mm (100/pk)
MF-CA-30013	: Cellulose Acetate Membrane Filter CA (3 µm)13 mm (100/pk)
MF-CA-30025	: Cellulose Acetate Membrane Filter CA (3 µm)25 mm (100/pk)
MF-CA-30047	: Cellulose Acetate Membrane Filter CA (3 µm)47 mm (100/pk)
MF-CA-30090	: Cellulose Acetate Membrane Filter CA (3 µm)90 mm (100/pk)
MF-CA-50013	: Cellulose Acetate Membrane Filter CA (5 µm)13 mm (100/pk)
MF-CA-50025	: Cellulose Acetate Membrane Filter CA (5 µm)25 mm (100/pk)
MF-CA-50047	: Cellulose Acetate Membrane Filter CA (5 µm)47 mm (100/pk)
MF-CA-50090	: Cellulose Acetate Membrane Filter CA (5 µm)90 mm (100/pk)

Please contact us for other diameters.

Mixed Cellulose Ester (MCE) Membrane Filters

Mixed Cellulose Ester Membrane Filters are polymer films with specific pore ratings. These Filters retain particles and microorganisms that exceed their pore ratings. By acting as a physical barrier its captures particles on the surface of the membrane.

These Filters (Membranes) are available in a variety of polymers, pore sizes, diameters, and surface types. Most membranes can be sterilized by autoclaving.

MCE (Mixed Cellulose Ester) gridded membranes are designed for the recovery and retention of bacteria in microbiological analysis applications. White gridded discs are designed for the recovery and retention of E.Coli bacteria in water/wastewater analysis as well as other microbiological tests. The filters are certified to meet specifications listed in APHA Standard Methods.

MCE membrane filters are composed of cellulose acetate and cellulose nitrate. Because the MCE membrane is biologically inert, it's widely used in analytical and research applications. This filter is characterized by a smoother and more uniform surface than a pure nitrocellulose filter. Also, the color contrast provided by the filter surface facilitates particle detection and minimizes eye fatigue.

Many microbiological techniques include colony counting after incubation as the standard method of quantification. Gridded filters have clearly defined grid lines spaced at 3.1 mm intervals. The special ink used is non-toxic and completely free from bacterial growth inhibitors.

White gridded discs are designed for the recovery and retention of E.Coli bacteria in water/wastewater analysis as well as other microbiological tests.

Black mixed cellulose esters (MCE) are available plain for automatic colony counting applications, as well as gridded to assist in manual counting procedures. Black MCE membranes provide contrast between residue or cell colors and the filter without having to counter-stain the membrane.

Features

- High porosity
- High protein binding can be blocked by pre-treatment or utilized in the application
- High purity: Triton-free
- Sterile options available for critical applications
- Biologically inert with good thermal stability
- The high degree of internal surface area for greater adsorption of product

Applications

Applications	Pore Size (µm)
Sterilizing filtration, bioassays	0.22
Clarification of aqueous solutions, particle removal, and analysis, microbiology analysis	0.45
Air monitoring, particle monitoring, particle removal, bioassays	0.8
Clarification of aqueous solutions	1
QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection and analysis	3
QC of fluid holding tanks, fluid monitoring, particle collection and analysis	5
QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection and analysis	8

Specification

Pore Size (µm)	Color	Bubble Point (Bar)	Water Flow Rate (mL/min/cm ²)	Air Flow Rate (L/min/cm ²)	Porosity
0.22	White	3.62	19	2	75
0.45	White	2.23	60	5	79
0.8	White	0.95	180	15	82
1	White	0.77	270	20	82
3	White	0.69	320	28	83
5	White	0.56	560	30	84
8	White	0.40	600	63	84

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

Quartz Microfiber Filters

Quartz Microfiber Filters are made of very pure quartz fibers with no binders and glass fibers. Some manufacturers and users call this filter Quartz Microfiber Filter too. The pure quartz composition prevents the filters from reacting with acidic gases, unlike glass fiber filters that can react and cause false readings. This makes quartz microfiber filters well suited for measuring heavy metal concentrations and small amounts of particles. Because of the low level of alkaline earth metals, 'artifact' products of sulfates and nitrates (from SO₂ and NO₂) are virtually eliminated.

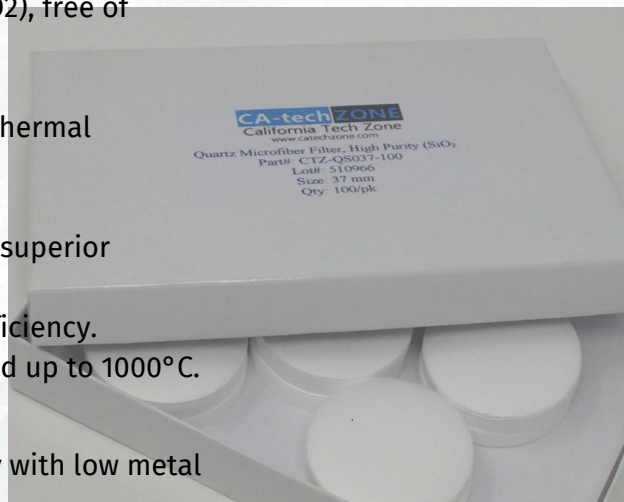
Quartz Microfiber Filters are used for air sampling in acidic gases(except HF), stacks, flues, and aerosols, particularly at high temperatures and in PM-10 testing as well as where absolute purity of the filter medium is required. Quartz Microfiber Filters also exhibit good weight and form stability.

Features

- These Filters made of pure quartz microfiber (SiO₂), free of binding elements or additives.
- Binder-free.
- Biologically inert with the highest chemical and thermal resistance.
- Enables to pass through large volumes of air.
- Heat-treated for reduction of trace organics and superior chemical purity.
- Quartz Microfiber Filters have a high filtration efficiency.
- Higher resistance than glass microfiber. Very good up to 1000°C.

Applications

- Applications that require a maximum filter purity with low metal content and no carbon traces.
- High temperature and hot gas air monitoring applications.
- Pollution controls performed on the air in industrial stacks, smoke ducts, and aerosols.
- Sampling and analysis of PM-10 particles and other pollutants.



Specification

Weight (g/m ²)	: 85 g/m ²
Thickness (mm)	: 0.470 mm
Gas Collection Efficiency (%) at 2.2 μm	: 99.998 %
Maximum Operating Temperature (°C)	: 1000 °C
pH in Boiled Water Extract	: 6.5-7.5

Order Information

Part Number# Description

CTZ-QS025-100 : Quartz microfiber, high purity 1000°C (SiO₂), (25 mm) (100/pk)

CTZ-QS037-100 : Quartz microfiber, high purity 1000°C (SiO₂), (37 mm) (100/pk)

CTZ-QS047-100 : Quartz microfiber, high purity 1000°C (SiO₂), (47 mm) (100/pk)

Please contact us for other diameters.

Extraction Thimble Filters

We have a wide selection of high-quality extraction thimbles available in a variety of dimensions to fit most Soxhlet extraction units. Our extraction thimbles are manufactured in high purity cellulose fibers or high purity glass binderless microfibers as have a consistent wall thickness.

These Extraction Thimble Filters use to a lot of applications such as Soxhlet extraction, food analyzing, waste solid analyzing, and biochemical analyzing, etc.

Applications

- Air and waste gas analysis
- Analysis of pesticide residues
- Collection of solid particles such as dust
- Elution for biochemical analysis
- Oil/fat content of solid foods
- Oil & grease analysis of solid wastes
- Soxhlet extraction
- Smokestack gas monitoring

Cellulose Soxhlet Extraction Thimble Filters

Specification

Maximum Temperature (°C) : 120 °C
 Binder : None
 Wall thickness (mm) : 1.0 ; 1.5 ; 2.0

Application Reference

- Fat determination of meat and dairy products
- Determination of PCB in fish products, of free fats and pesticide residues in food products
- Extraction of plasticizers from PVC
- Extraction of dioxins
- Solid particle such as dust collection in air
- Evaluation of liquid content in concrete slurry

Glass Microfiber Extraction Thimble Filters

Specification

Maximum Temperature (°C) : 500 °C
 Binder : None
 Wall thickness (mm) : 1.0 ; 1.5 ; 2.0

Application Reference

- Gravimetric methods for hot environments
- Gravimetric methods for acidic gasses
- Extraction methods common to biochemical analysis

Order Information

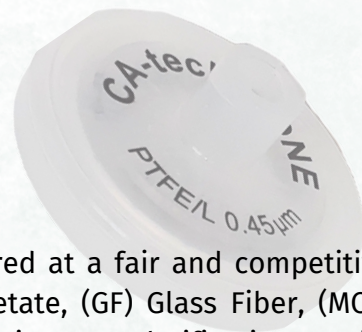
Part Number#	Description/Material - (IDxH)	Part Number#	Description/Material - (IDxH)
CTZ-CT5-001	: Cellulose 8x40 mm (25/pack)	CTZ-CT5-026	: Cellulose 33x205 mm (25/pack)
CTZ-CT5-002	: Cellulose 9x50 mm (25/pack)	CTZ-CT5-027	: Cellulose 34x120 mm (25/pack)
CTZ-CT5-003	: Cellulose 15x50 mm (25/pack)	CTZ-CT5-028	: Cellulose 34x150 mm (25/pack)
CTZ-CT5-004	: Cellulose 15x100 mm (25/pack)	CTZ-CT5-029	: Cellulose 38x200 mm (25/pack)
CTZ-CT5-005	: Cellulose 20x80 mm (25/pack)	CTZ-CT5-030	: Cellulose 30x150 mm (25/pack)
CTZ-CT5-006	: Cellulose 22x80 mm (25/pack)	CTZ-CT5-031	: Cellulose 40x123 mm (25/pack)
CTZ-CT5-007	: Cellulose 23x90 mm (25/pack)	CTZ-CT5-032	: Cellulose 43x130 mm (25/pack)
CTZ-CT5-008	: Cellulose 23x100 mm (25/pack)	CTZ-CT5-033	: Cellulose 48x145 mm (25/pack)
CTZ-CT5-009	: Cellulose 27x80 mm (25/pack)	CTZ-CT5-034	: Cellulose 48x200 mm (25/pack)
CTZ-CT5-010	: Cellulose 27x100 mm (25/pack)	CTZ-CT5-035	: Cellulose 48x230 mm (25/pack)
CTZ-CT5-011	: Cellulose 27x60 mm (25/pack)	CTZ-CT5-036	: Cellulose 51x145 mm (25/pack)
CTZ-CT5-013	: Cellulose 28x100 mm (25/pack)	CTZ-CT5-037	: Cellulose 51x180 mm (25/pack)
CTZ-CT5-014	: Cellulose 28x120 mm (25/pack)	CTZ-CT5-038	: Cellulose 57x315 mm (25/pack)
CTZ-CT5-015	: Cellulose 28x80 mm (25/pack)	CTZ-CT5-039	: Cellulose 60x180 mm (25/pack)
CTZ-CT5-016	: Cellulose 28x90 mm (25/pack)	CTZ-CT5-040	: Cellulose 55x275 mm (25/pack)
CTZ-CT5-017	: Cellulose 29x100 mm (25/pack)	CTZ-CT5-041	: Cellulose 75x160 mm (25/pack)
CTZ-CT5-018	: Cellulose 30x150 mm (25/pack)	CTZ-CT5-042	: Cellulose 68x250 mm (25/pack)
CTZ-CT5-019	: Cellulose 30x60 mm (25/pack)	CTZ-CT5-043	: Cellulose 70x330 mm (25/pack)
CTZ-CT5-020	: Cellulose 30x80 mm (25/pack)	CTZ-CT5-951	: Cellulose 33x80 mm (25/pack)
CTZ-CT5-021	: Cellulose 30x90 mm (25/pack)	CTZ-CT5-055	: Cellulose 90x200 mm (25/pack)
CTZ-CT5-022	: Cellulose 33x94 mm (25/pack)	CTZ-CT5-105	: Cellulose 20x80 mm (25/pack)
CTZ-CT5-023	: Cellulose 30x100 mm (25/pack)	CTZ-CT5-116	: Cellulose 28x90 mm (25/pack)
CTZ-CT5-024	: Cellulose 31x118 mm (25/pack)	CTZ-CT5-126	: Cellulose 31x205 mm (25/pack)
CTZ-CT5-025	: Cellulose 31x130 mm (25/pack)		

Please contact us for other diameters and Glass Microfiber Extraction Thimble Filters.

Syringe Filters

Our syringe filters are simply quality filters, well packaged, and offered at a fair and competitive price. There are different type syringe filters that; (CA) Cellulose Acetate, (GF) Glass Fiber, (MCE) Mixed Cellulose Esters, Nylon, PES, PP, PTFE, and PVDF. Typical applications are clarification, sterile filtration, sample preparation, sterile venting, and medical applications.

The syringe filters are available in many different pore sizes and with several hydrophilic or hydrophobic membrane materials. ISO9000 certified manufacturing is carried out to the highest standards, in certified clean room conditions, using the latest manufacturing technology to ensure high quality, consistent product. All the syringe filters are certified by HPLC Extractable Test.

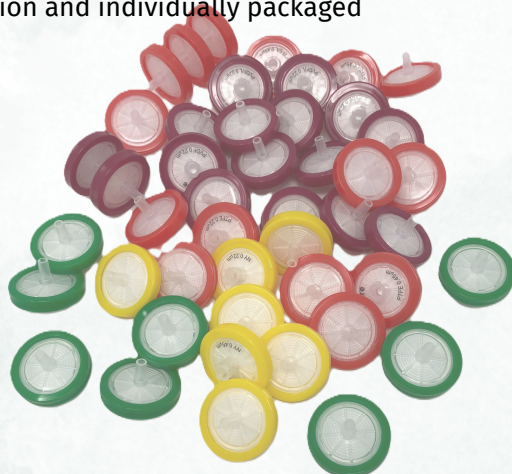


Features

- Application Compatibility: Broad range of filtration media meets diverse application needs.
- Convenient: Each unit is clearly marked with an identifying code to denote pore size, membrane material.
- Minimum sample hold-up: Syringe Filter’s housings are specifically designed to maximize sample recovery.
- Sterile: Filters can be purchased pre-sterilized by Gamma radiation and individually packaged

Applications

- Biofuel analysis.
- Content uniformity.
- Dissolution testing.
- Environmental samples.
- Food analysis.
- HPLC sample preparation.
- Removal of protein precipitates.
- Routine QC analysis



Specification

Materials	Behavior for Water	Available Diameters (mm)	Pore Size (µm)
(CA) Cellulose Acetate	Hydrophilic	4 ; 13 ; 25 ; 33	0.22 ; 0.45 ; 3.00
(GF) Glass Fiber	Hydrophilic	4 ; 13 ; 25 ; 33	0.70 ; 1.00
(MCE) Mixed Cellulose Esters	Hydrophilic	4 ; 13 ; 25 ; 33	0.22 ; 0.45 ; 3.00
Nylon	Hydrophilic	4 ; 13 ; 25 ; 33	0.10 ; 0.22 ; 0.45 ; 1.00 ; 3.00 ; 5.00
PES	Hydrophilic	4 ; 13 ; 25 ; 33	0.10 ; 0.22 ; 0.45
PP	Hydrophilic	4 ; 13 ; 25 ; 33	0.22 ; 0.45 ; 3.00
PTFE	Hydrophilic	4 ; 13 ; 25 ; 33	0.22 ; 0.45
PTFE	Hydrophobic	4 ; 13 ; 25 ; 33	0.22 ; 0.45
PVDF	Hydrophilic	4 ; 13 ; 25 ; 33	0.22 ; 0.45
PVDF	Hydrophobic	4 ; 13 ; 25 ; 33	0.22 ; 0.45



Order Information



Part No.	Description	Quantity
SF-CA-2213	Nonsterile (CA) Cellulose Acetate Syringe Filters, 0.22(µm), 13(mm)	100/pk
SF-CA-4513	Nonsterile (CA) Cellulose Acetate Syringe Filters, 0.45(µm), 13(mm)	100/pk
SF-CA-2225	Nonsterile (CA) Cellulose Acetate Syringe Filters, 0.22(µm), 25(mm)	100/pk
SF-CA-4525	Nonsterile (CA) Cellulose Acetate Syringe Filters, 0.45(µm), 25(mm)	100/pk
SF-GF-0713	Nonsterile (GF) Glass Fiber Syringe Filters, 0.7(µm), 13(mm)	100/pk
SF-GF-1013	Nonsterile (GF) Glass Fiber Syringe Filters, 1.0(µm), 13(mm)	100/pk
SF-GF-0725	Nonsterile (GF) Glass Fiber Syringe Filters, 0.7(µm), 25(mm)	100/pk
SF-GF-1025	Nonsterile (GF) Glass Fiber Syringe Filters, 1.0(µm), 25(mm)	100/pk
SF-MCE-2213	Nonsterile (MCE) Mixed Cellulose Ester Syringe Filters, 0.22(µm), 13(mm)	100/pk
SF-MCE-4513	Nonsterile (MCE) Mixed Cellulose Ester Syringe Filters, 0.45(µm), 13(mm)	100/pk
SF-MCE-2225	Nonsterile (MCE) Mixed Cellulose Ester Syringe Filters, 0.22(µm), 25(mm)	100/pk
SF-MCE-4525	Nonsterile (MCE) Mixed Cellulose Ester Syringe Filters, 0.45(µm), 25(mm)	100/pk
SF-NYL-2213	Nonsterile Nylon Syringe Filters, 0.22(µm), 13(mm)	100/pk
SF-NYL-4513	Nonsterile Nylon Syringe Filters, 0.45(µm), 13(mm)	100/pk
SF-NYL-2225	Nonsterile Nylon Syringe Filters, 0.22(µm), 25(mm)	100/pk
SF-NYL-4525	Nonsterile Nylon Syringe Filters, 0.45(µm), 25(mm)	100/pk
SF-PES-2213	Nonsterile PES Syringe Filters, 0.22(µm), 13(mm)	100/pk
SF-PES-4513	Nonsterile PES Syringe Filters, 0.45(µm), 13(mm)	100/pk
SF-PES-2225	Nonsterile PES Syringe Filters, 0.22(µm), 25(mm)	100/pk
SF-PES-4525	Nonsterile PES Syringe Filters, 0.45(µm), 25(mm)	100/pk
SF-PP-2213	Nonsterile PP Syringe Filters, 0.22(µm), 13(mm)	100/pk
SF-PP-4513	Nonsterile PP Syringe Filters, 0.45(µm), 13(mm)	100/pk
SF-PP-2225	Nonsterile PP Syringe Filters, 0.22(µm), 25(mm)	100/pk
SF-PP-4525	Nonsterile PP Syringe Filters, 0.45(µm), 25(mm)	100/pk
SF-PTFE-2213	Nonsterile Hydrophilic PTFE Syringe Filters, 0.22(µm), 13(mm)	100/pk
SF-PTFE-4513	Nonsterile Hydrophilic PTFE Syringe Filters, 0.45(µm), 13(mm)	100/pk
SF-PTFE-2225	Nonsterile Hydrophilic PTFE Syringe Filters, 0.22(µm), 25(mm)	100/pk
SF-PTFE-4525	Nonsterile Hydrophilic PTFE Syringe Filters, 0.45(µm), 25(mm)	100/pk
SF-PTFE-2213X	Nonsterile Hydrophobic PTFE Syringe Filters, 0.22(µm), 13(mm)	100/pk
SF-PTFE-4513X	Nonsterile Hydrophobic PTFE Syringe Filters, 0.45(µm), 13(mm)	100/pk
SF-PTFE-2225X	Nonsterile Hydrophobic PTFE Syringe Filters, 0.22(µm), 25(mm)	100/pk
SF-PTFE-4525X	Nonsterile Hydrophobic PTFE Syringe Filters, 0.45(µm), 25(mm)	100/pk
SF-PVDF-2213	Nonsterile Hydrophilic PTFE Syringe Filters, 0.22(µm), 13(mm)	100/pk
SF-PVDF-4513	Nonsterile Hydrophilic PTFE Syringe Filters, 0.45(µm), 13(mm)	100/pk
SF-PVDF-2225	Nonsterile Hydrophilic PTFE Syringe Filters, 0.22(µm), 25(mm)	100/pk
SF-PVDF-4525	Nonsterile Hydrophilic PTFE Syringe Filters, 0.45(µm), 25(mm)	100/pk
SF-PVDF-2213X	Nonsterile Hydrophobic PTFE Syringe Filters, 0.22(µm), 13(mm)	100/pk
SF-PVDF-4513X	Nonsterile Hydrophobic PTFE Syringe Filters, 0.45(µm), 13(mm)	100/pk
SF-PVDF-2225X	Nonsterile Hydrophobic PTFE Syringe Filters, 0.22(µm), 25(mm)	100/pk
SF-PVDF-4525X	Nonsterile Hydrophobic PTFE Syringe Filters, 0.45(µm), 25(mm)	100/pk

Please contact us for other diameters and package options.

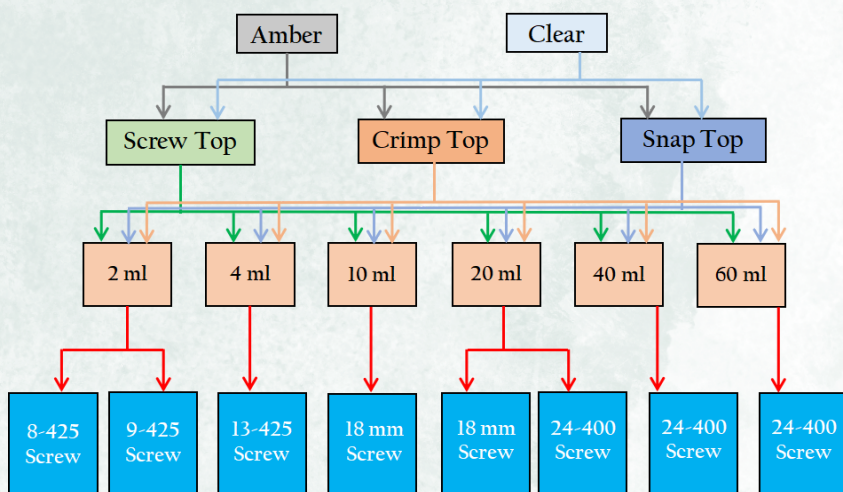




Sample Vials

CA-tech ZONE sample vials are crafted from high-quality Type 1 borosilicate glass, offering options in both clear and amber variants. These vials are ideal for extended storage periods. Additionally, we provide LC Certification, and MS Certification. Our sample vials, along with compatible caps and septa, are designed to work seamlessly with various most popular brand auto-samplers.

Sample Vials Selection Guide



Features

- **Exceptional Quality:** Uncompromising quality defines our products, with a commitment to excellence in every aspect.
- **USP TYPE I Grade:** Our vials adhere to the highest standards, meeting USP TYPE I Grade specifications to ensure pharmaceutical-grade purity and reliability.
- **Innovative Thread Design:** The 8-425 vials boast a distinctive thread design, providing a uniformly flat bottom for enhanced security when used with inserts.
- **Optimized Septa Options:** Choose from PTFE/Silicone septa, widely recognized for their superiority in HPLC applications. For increased convenience, opt for our pre-slit septa, facilitating easier needle piercing.
- **Pre-assembled Caps and Septa:** Simplify your workflow with our pre-assembled caps and septa, a convenient solution that minimizes the risk of contamination from manual handling, ensuring the integrity of your samples.





Order Information



Description	Part Number#
2ml Amber vial, 8-425 screw top, graduated with writing area USP type 1, 100/pack	VN8-1002A
2ml Clear vial, 8-425 screw top, graduated with writing area USP type 1, 100/pack	VN8-1002CL
Red PTFE/White silicone septa + Black screw cap with hole, for 2ml 8-425 screw top vial, 100/pack	SCN8-BLK-1001
Red PTFE/White silicone septa + White screw cap with hole, for 2ml 8-425 screw top vial, 100/pack	SCN8-W-1001
Red PTFE/ White silicone septa for 2ml 8-425 screw top vial, 100/pack	SN8-1001
2ml Amber vial, 9-425 screw top, graduated with writing area USP type 1, 100/pack	VN9-1002A
2ml Clear vial, 9-425 screw top, graduated with writing area USP type 1, 100/pack	VN9-1002CL
Red PTFE/white silicone septa + Green screw cap with hole, for 2ml 9-425 screw top vial, 100/pack	SCN9-G-1001
Red PTFE/white silicone septa + Red screw cap with hole, for 2ml 9-425 screw top vial, 100/pack	SCN9-R-1001
Red PTFE/white silicone septa + Blue screw cap with hole, for 2ml 9-425 screw top vial, 100/pack	SCN9-BL-1001
Red PTFE/white silicone septa + Yellow screw cap with hole, for 2ml 9-425 screw top vial, 100/pack	SCN9-Y-1001
Red PTFE/White silicone septa for 2ml 9-425 screw top vial, 100/pack	SN9-1001
Micro-Insert 29*4.8mm, clear, bevelled bottom with assembled plastic spring, for 8-425 vials, 100/pack	N8-INSRT-CL
Micro-Insert 29*5.7mm, clear, bevelled bottom with assembled plastic spring, for 9-425 vials, 100/pack	N9-INSRT-CL
4ml Amber vial, 13-425 screw top, 100/pack	VN13-1004A
4ml Clear vial, 13-425 screw top, 100/pack	VN13-1004CL
Nature PTFE/Nature silicone septa + Black cap without hole, for 4ml 13-425 screw top vial, 100/pack	SCN13-BLK-1102
1.5mL Clear Crimp top vial with writing area USP type 1, 11.6*32mm, 100/pack	VCR11-1002CL
1.5mL Amber Crimp top vial with writing area USP type 1, 11.6*32mm, 100/pack	VCR11-1002A
WhitePTFE/Red silicone septa, 11mm Crimp-top Aluminum Cap with 5.5mm hole, 100/pack	SC-CR-AL-1001
8mL Clear screw top vial, 15-425 Thread 17*60mm, 100/pack	VCR-1508CL
8mL Amber screw top vial, 15-425 Thread 17*60mm, 100/pack	VCR-1508A
12mL Clear screw top vial, 15-425 Thread 19*65mm, 100/pack	VCR-1512CL
12mL Amber screw top vial, 15-425 Thread 19*65mm, 100/pack	VCR-1512A
Red PTFE/White silicone septa + Black screw cap without hole 13.5*1.5mm, 15mm PP (15-425) 100/pack	SC-CR-BLK-1501
10mL Clear Precision screw top Headspace Vial, Bevelled bottom, 22.5*46mm, USP type 1, 100/pack	VN18-1010CL
10mL Amber Precision screw top Headspace Vial, Bevelled bottom, 22.5*46mm, USP type 1, 100/pack	VN18-1010A
20mL Şeffaf Precision screw top Headspace Vial, Bevelled bottom, 22.5*75.5mm, USP type 1, 100/pack	VN18-1020CL
20mL Clear Precision screw top Headspace Vial, Bevelled bottom, 22.5*75.5mm, USP type 1, 100/pack	VN18-1020A
Red PTFE/White silicone septa + 18mm screw metal cap (Magnetic Precision), 8mm hole, for ND18 Precision Headspace Vials, 100/pack	SCN18-MP-1801
10mL Clear Crimp-top Headspace Vial, Flat bottom, 22.5*46mm, 100/pack	VCR-2010CL
10mL Amber Crimp-top Headspace Vial, Flat bottom, 22.5*46mm, 100/pack	VCR-2010A
20mL Clear Crimp-top Headspace Vial, Flat bottom, 22.5*75.5mm, 100/pack	VCR-2020CL
20mL Amber Crimp-top Headspace Vial, Flat bottom, 22.5*75.5mm, 100/pack	VCR-2020A
White PTFE/White Silicon Septa, 20mm Crimp-top Aluminum cap, with 10mm hole, for ND20 Headspace Crimp Vials, 100/pack	SC-CR-AL-2001
Gray PTFE/Moulded Butyl Septa, 20mm Crimp-top Aluminum cap, with 10mm hole, 100/pack	SC-CR-AL-2002

Please contact us for sample vials and caps+septas options not included in the list.

Six-Stage Microbial (Viable) Cascade Impactor CTZ-MCI-6

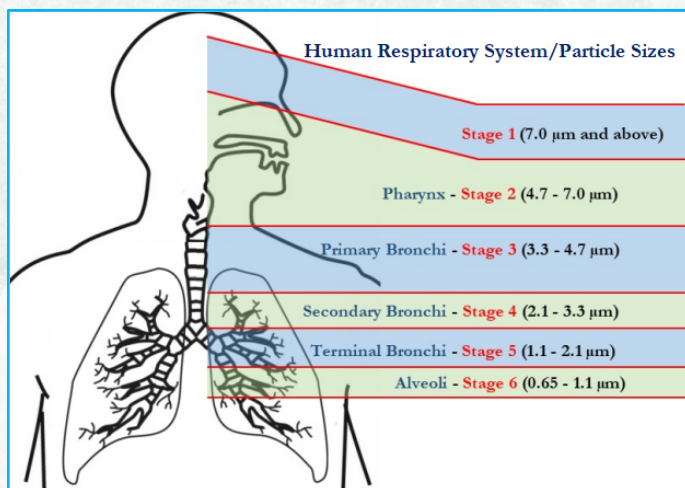
CTZ-MCI-6 Model Six Stage Microbial (Viable) Cascade Impactor (Air Sampler) is multi-orifice. It used to measure the concentration and particle size distribution of aerobic bacteria and fungi in the intramural or ambient air. These units have been widely used for enumerating the viable particles in a microbial aerosol.

Viable particles can be collected on a variety of bacteriological agar and incubated for counting or identification. These samplers are designed so that all particles collected, regardless of physical size, shape, or density are sized aerodynamically and can be directly related to human lung deposition. The multi-orifice cascade impactor size-selective feature permits the assessment of an airborne contaminant in relation to its disease potential arising from its deposition site within the respiratory tract.

The CTZ-MCI-6 Model Six Stage Microbial (Viable) Cascade Impactor requires Petri dishes. The Petri dishes are removed after the sampling, incubated, and counted by an accepted method.

Assembly Parts

CTZ-MCI-6 has included Six parts stages with O-rings, one bottom part with O-ring, one inlet cone with O-ring, and three clamping parts.



Stage	Orifice Diameter (mm)	Particle Size (µm)
Stage 1	1.18	7.0 and above
Stage 2	0.91	4.7 to 7.0
Stage 3	0.71	3.3 to 4.7
Stage 4	0.53	2.1 to 3.3
Stage 5	0.34	1.1 to 2.1
Stage 6	0.25	0.65 to 1.1



Part Number Description

- CTZ-MCI-6-11 Six Stage Microbial Viable Cascade Impactor with vacuum pump-110V & carrying case-L
- CTZ-MCI-6-12 Six Stage Microbial Viable Cascade Impactor with vacuum pump-220V & carrying case-L
- CTZ-MCI-6-10 Six Stage Microbial Viable Cascade Impactor with carrying case-M without vacuum pump
- CTZ-MCI-6-00 Six Stage Microbial Viable Cascade Impactor without vacuum pump and w/o carrying case
- CTZ-CASE-01 Carrying case-Medium-Interior dimensions: 30,2x22,9x13,5 cm (11-7/8in.x9in.x5-5/16in.)
- CTZ-CASE-02 Carrying case-Large-Interior dimensions: 37,8x27x15,6 cm (14-7/8in.x10-5/8in.x6-1/8in.)
- CTZ-PUMP-01 Vacuum Pump 1 cfm (28.3 L/min)-110V
- CTZ-PUMP-02 Vacuum Pump 1 cfm (28.3 L/min)-220V

Portable Biological Air Sampler CTZ-PBAS-100



Portable Biological Air Sampler is designed according to the multi-beam hole particle effect and isokinetic sampling principle. It more accurately absorbs airborne organisms. While sampling, airborne particles attach to the agar surface of substrate materials through small holes. Organisms in the particles form colonies on top of the agar plate after incubation and these can be counted.

This instrument consists of two parts, the sampling part, and the controller part. The top sampling part; includes a sampling base consisting of sampling jet holes and a vacuum air pump. The sampling base and shell are made of high-quality aviation aluminum, the surface holes can be sealed so the whole instrument is suitable to be sterilized before use. The lower part contains the controller and batteries.

This device is easy to use. It has a large sampling volume, stable performance, and complies with international standards. It is an ideal Portable Biological Air Sampler for medical plants, hospitals, biological products, food processing, public places, and other inspection departments.

Features

- The sampling part has many small holes to reduce particle superposition and reduce the error of organism count.
- LCD screen displays sampling quantity, sampling time, and other parameters.
- Programmable, sampling quantity can be set from 0.01 to 6.0 m³.
- Up to 256 sample data storage of sampling time, sampling volume, and other parameters.
- Portable, lightweight, convenient to use.
- Easy to change petri dish, just only take down sampling hole to change petri dish. (Petri size; Diameter: 90mm, Height: 15mm).

Specification

Part Number	: CTZ-PBAS-100
Product Name	: Portable Biological Air Sampler
Material	: Aviation aluminum
Structure	: PC board control, low noise pump sampling
Flow rate	: 100L/min
Rechargeable Li-ion battery	: DC7.4V/6400mAh
Operating Time on Battery	: 6-8 hours
Power Supply	: AC & 220V±10%, 50Hz/60Hz
Package Size(LxWxH)	: 190 x 380 x 420 mm (7.5" x 14.96" x 16.5")
Net Weight	: 2.5 kg (5.5 lbs)
Gross Weight	: 6.0 kg (13.2 lbs)
Accessory	: Carrying case and Petri dish(2 pcs)
Wind Speed of sampling holes	: 0.4m/s, basically the same as that of clean room (Isokinetic sampling)

PCI Series Marple Personal Cascade Impactor

The PCI series Marple Personal Cascade Impactor is specifically engineered to be worn by workers and serves as a multi-stage personal size selective device essential for particle size distribution analysis. Crafted from lightweight aluminum, the PCI series features impaction stages weighing under 7 ounces, ensuring unparalleled comfort and minimal user interference. Offered in 8-stage, 6-stage, and 4-stage configurations, this personal cascade impactor caters to diverse sampling requirements across various applications.



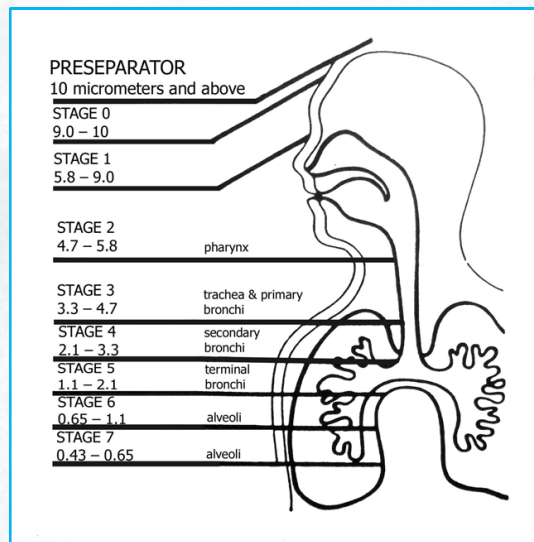
Features

- Offers precise aerodynamic particle size distribution analysis ranging from 20 to 0.5 micrometers.
- Lightweight design ensures minimal user interference during operation.
- Maintains a steady flow rate of 2.0 LPM (liters per minute) for consistent sampling.
- Compatible with a wide array of commercial personal sample pumps, enhancing versatility.
- Inlet design that effectively prevents contamination and overload of the initial stage.
- Provides compatibility with multiple 34mm collection media options, allowing for tailored sampling strategies.
- Affordably priced and straightforward to operate, making it accessible to a wide range of users.
- Equipped with 34mm sample substrates for effortless handling and precise weighing using analytical balances.

Applications

- Personal air monitoring for wood dust.
- Measurement of welding fumes and trace metals.
- Assessment of personnel exposure to silica fibers.
- Asbestos monitoring.
- Indoor air monitoring for particulate air pollutants.
- Measurement of mining dust.
- Sampling of inhalable and respirable particulates.
- Utilized as an aerosol and laboratory research tool.

Stage	PCI-8	PCI-6	PCI-4
Stage 1	21.3 µm		21.3 µm
Stage 2	14.8 µm		14.8 µm
Stage 3	9.8 µm	9.8 µm	9.8 µm
Stage 4	6.0 µm	6.0 µm	
Stage 5	3.5 µm	3.5 µm	3.5 µm
Stage 6	1.55 µm	1.55 µm	
Stage 7	0.92 µm	0.92 µm	
Stage 8	0.52 µm	0.52 µm	



PCI Series Marple Personal Cascade Impactor

Model	PCI-8	PCI-6	PCI-4
Description	8 Stage Personal Impactor	6 Stage Personal Impactor	4 Stage Personal Impactor
Flow Rate	2 LPM nominal (0.5 to 5 LPM max range)	2 LPM nominal (0.5 to 5 LPM max range)	2 LPM nominal (0.5 to 5 LPM max range)
Cut Points	0.52 to 21.3 µm	0.52 to 9.8 µm	3.5 to 21.3 µm
Construction	Precision Machined Aluminum	Precision Machined Aluminum	Precision Machined Aluminum
Substrate Size	34mm	34mm	34mm
Outlet Fitting	1/8"NPT with 1/4" I.D. hose barb	1/8"NPT with 1/4" I.D. hose barb	1/8"NPT with 1/4" I.D. hose barb
Height	8.6 cm (3.4 inch)	8 cm (3.15 inch)	7.2 cm (2.8 inch)
Width/Depth	5.7 / 4 cm (2.2/1.6 inch)	5.7 / 4 cm (2.2/1.6 inch)	5.7 / 4 cm (2.2/1.6 inch)
Weight	250 gr (0.55 lb)	200 gr (0.44 lb)	200 gr (0.44 lb)



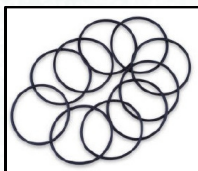
Slotted Substrates

Part Number	CTZ-PCI-GF-SL	CTZ-PCI-MY-SL	CTZ-PCI-SS-SL	CTZ-PCI-MCE-SL	CTZ-PCI-C41-SL
Description	Glass Fiber Slotted Filter	Mylar Slotted Filter	SS Slotted Filter	MCE Slotted Filter	Cellulose Slotted Filter
Material	Glass Fiber	Mylar	Stainless Steel	Mixed Cellulose Ester	Cellulose Grade 41
Diameter	34 mm	34 mm	34 mm	34 mm	34 mm
Quantity	100/pk	100/pk	100/pk	100/pk	100/pk

Un-slotted Substrates

Part Number	CTZ-PCI-GF	CTZ-PCI-MCE	CTZ-PCI-C41
Description	Glass Fiber Filter	MCE Filter	Cellulose Filter
Material	Glass Fiber	Mixed Cellulose Ester	Cellulose Grade 41
Diameter	34 mm	34 mm	34 mm
Quantity	100/pk	100/pk	100/pk

Accessories & Spare parts



Part Number	CTZ-PCI-CAL	CTZ-PCI-ORL	CTZ-PCI-ORS
Description	Calibration Adapter	Large "O" rings, Viton	Small "O" rings, Viton
Quantity	1/pk	10/pk	10/pk

CA-tech ZONE

California Tech Zone

for your laboratory...

