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California Tech Zone

FILTER CATALOG

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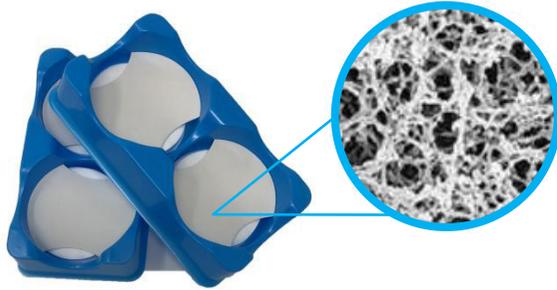
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Cellulose Acetate Disc Filters



Cellulose Acetate Disc 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) 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 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 which 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(mL/min/cm ²) (ΔP=3mbar)
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

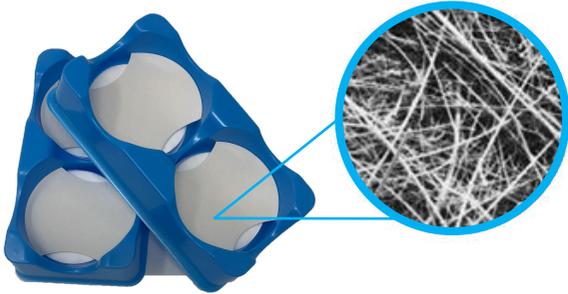
Cellulose Acetate Disc Filters

Part Number	Description
MF-CA-02213	Cellulose Acetate Membrane Filter CA (0.22µm)13 mm (100/pk)
MF-CA-04513	Cellulose Acetate Membrane Filter CA (0.45µm)13 mm (100/pk)
MF-CA-08013	Cellulose Acetate Membrane Filter CA (0.80µm)13 mm (100/pk)
MF-CA-30013	Cellulose Acetate Membrane Filter CA (3.00µm)13 mm (100/pk)
MF-CA-50013	Cellulose Acetate Membrane Filter CA (5.00µm)13 mm (100/pk)
MF-CA-02225	Cellulose Acetate Membrane Filter CA (0.22µm)25 mm (100/pk)
MF-CA-04525	Cellulose Acetate Membrane Filter CA (0.45µm)25 mm (100/pk)
MF-CA-08025	Cellulose Acetate Membrane Filter CA (0.80µm)25 mm (100/pk)
MF-CA-30025	Cellulose Acetate Membrane Filter CA (3.00µm)25 mm (100/pk)
MF-CA-50025	Cellulose Acetate Membrane Filter CA (5.00µm)25 mm (100/pk)
MF-CA-02247	Cellulose Acetate Membrane Filter CA (0.22µm)47 mm (100/pk)
MF-CA-04547	Cellulose Acetate Membrane Filter CA (0.45µm)47 mm (100/pk)
MF-CA-08047	Cellulose Acetate Membrane Filter CA (0.80µm)47 mm (100/pk)
MF-CA-30047	Cellulose Acetate Membrane Filter CA (3.00µm)47 mm (100/pk)
MF-CA-50047	Cellulose Acetate Membrane Filter CA (5.00µm)47 mm (100/pk)
MF-CA-02290	Cellulose Acetate Membrane Filter CA (0.22µm)90 mm (100/pk)
MF-CA-04590	Cellulose Acetate Membrane Filter CA (0.45µm)90 mm (100/pk)
MF-CA-08090	Cellulose Acetate Membrane Filter CA (0.80µm)90 mm (100/pk)
MF-CA-30090	Cellulose Acetate Membrane Filter CA (3.00µm)90 mm (100/pk)
MF-CA-50090	Cellulose Acetate Membrane Filter CA (5.00µm)90 mm (100/pk)

Table 1.1. Cellulose Acetate Disc Filters part numbers.

All CA membrane filters in the over are without grid and non-sterile. Please contact us if you want it to be as sterile individually packed, and gridded.

Glass Microfiber Filters



Glass Microfiber Filters are one of the recommended filters for controlling both air and water pollution. We have different pore sizes and filter diameters for this group.

Grade GF-A

Highly efficient for general laboratory filtration.

It is useful for clarification of buffer and reagent solutions.

Corresponds to many international standards for air and water pollution monitoring.

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

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

Universal membrane pre-filter material

Filtration in the food industry

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-H

Suitable for suspended solid material analysis.

Also, it is suitable for both cell culture synthesis and air pollution control

Specification

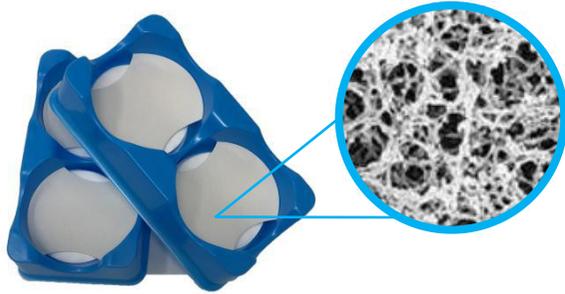
	GF-A	GF-B	GF-C	GF-D	GF-F	GF-H
Pore Size (µm)	1,6	1,0	1,2	2,7	0,7	1,5
Available Diameters (mm)	25-37-47	25-37-47	25-37-47	25-37-47	25-37-47	25-37-47
Maximum Temperature (°C)	500	500	500	500	500	500
Thickness (mm)	0,29	1,00	0,28	0,53	0,40	0,30
Weight (g/m ²)	56	140	54	120	75	65

Glass Microfiber Filters

Part Number	Description
GFA-16-2500	Glass Microfiber Filter GF-A (1.6µm)25 mm (100/pk)
GFA-16-3700	Glass Microfiber Filter GF-A (1.6µm)37 mm (100/pk)
GFA-16-4700	Glass Microfiber Filter GF-A (1.6µm)47 mm (100/pk)
GFB-10-2500	Glass Microfiber Filter GF-B (1µm)25 mm (100/pk)
GFB-10-3700	Glass Microfiber Filter GF-B (1µm)37 mm (100/pk)
GFB-10-4700	Glass Microfiber Filter GF-B (1µm)47 mm (100/pk)
GFC-12-2500	Glass Microfiber Filter GF-C (1.2µm)25 mm (100/pk)
GFC-12-3700	Glass Microfiber Filter GF-C (1.2µm)37 mm (100/pk)
GFC-12-4700	Glass Microfiber Filter GF-C (1.2µm)47 mm (100/pk)
GFD-27-2500	Glass Microfiber Filter GF-D (2.7µm)25 mm (100/pk)
GFD-27-3700	Glass Microfiber Filter GF-D (2.7µm)37 mm (100/pk)
GFD-27-4700	Glass Microfiber Filter GF-D (2.7µm)47 mm (100/pk)
GFF-07-2500	Glass Microfiber Filter GF-F (0.7µm)25 mm (100/pk)
GFF-07-3700	Glass Microfiber Filter GF-F (0.7µm)37 mm (100/pk)
GFF-07-4700	Glass Microfiber Filter GF-F (0.7µm)47 mm (100/pk)
GFH-15-2500	Glass Microfiber Filter GF-H (1.5µm)25 mm (100/pk)
GFH-15-3700	Glass Microfiber Filter GF-H (1.5µm)37 mm (100/pk)
GFH-15-4700	Glass Microfiber Filter GF-H (1.5µm)47 mm (100/pk)

Table 2.1. Glass Microfiber Filters part numbers.

MCE Disc Filters



Membrane filters or membranes are polymer films with specific pore ratings. MCE Membranes retain particles and microorganisms that exceed their pore ratings by acting as a physical barrier and capturing such particles on the surface of the membrane. MCE membranes are available in a variety of polymers, pore sizes, diameters, and surface types. Most membranes can be sterilized by autoclaving. MCE 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 the specifications listed in APHA Standard Methods.

Mixed Cellulose ester (MCE) membrane filters are composed of cellulose acetate and cellulose nitrate. Because MCE membrane is biologically inert, it's widely used in analytical and research applications. MCE membrane filter is characterized by a smoother and more uniform surface than 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 disks 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 **MCE**

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

High degree of the internal surface area for greater adsorption of product

Applications MCE

Application	Color	Pore Size (µm)
Microdialysis of DNA and proteins	White	0.1
Sterilizing filtration, bioassays	White	0.22
Sterilizing filtration, air monitoring, particle monitoring, particle removal, bioassays	White	0.3
Clarification of aqueous solutions, particle removal, and analysis, microbiology analysis	White	0.45
Fluorescent bacteriological assays, particle monitoring, bioassays	Black	0.45
Particle monitoring, particle removal, dairy microbiology, retention of yeasts, molds and algae	White	0.65
Air monitoring, particle monitoring, particle removal, bioassays	White	0.8
Fluorescent assays, particle monitoring, air monitoring	Black	0.8
Clarification of aqueous solutions	White	1
QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection, and analysis	White	3
QC of fluid holding tanks, fluid monitoring, particle collection and analysis	White	5
QC of fluid holding tanks, fluid monitoring, air monitoring, particle collection and analysis	White	8

Specification

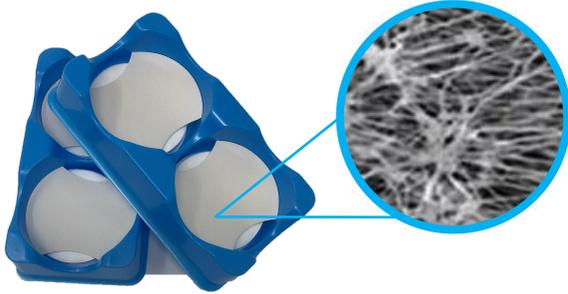
Pore Size (µm)	Color	Bubble Point (bar)	Water Flow Rate (mL/min/cm ²)	Air Flow Rate (L/min/cm ²)	Porosity
0.1	White	14.1	1.6	0.5	74
0.22	White	3.62	19	2	75
0.45	White	2.23	60	5	79
0.45	Black	2.35	60	5	79
0.65	White	1.18	135	9	81
0.8	White	0.95	180	15	82
0.8	Black	1.15	180	15	82
1	White	0.77	270	20	82
3	White	0.69	320	28	83
5	White	0.56	560	30	84
8	White	0.4	600	63	84

MCE Disc Filters

Part Number	Description
MCE-022-2500	Membran Filter MCE (0.22µm)25 mm (200/pk)
MCE-022-3700	Membran Filter MCE (0.22µm)37 mm (200/pk)
MCE-022-4700	Membran Filter MCE (0.22µm)47 mm (200/pk)
MCE-022-9000	Membran Filter MCE (0.22µm)90 mm (100/pk)
MCE-022-0142	Membran Filter MCE (0.22µm)142 mm (50/pk)
<hr/>	
MCE-045-2500	Membran Filter MCE (0.45µm)25 mm (200/pk)
MCE-045-3700	Membran Filter MCE (0.45µm)37 mm (200/pk)
MCE-045-4700	Membran Filter MCE (0.45µm)47 mm (200/pk)
MCE-045-9000	Membran Filter MCE (0.45µm)90 mm (100/pk)
MCE-045-0142	Membran Filter MCE (0.45µm)142 mm (50/pk)
<hr/>	
MCE-08-2500	Membran Filter MCE (0.8µm)25 mm (200/pk)
MCE-08-3700	Membran Filter MCE (0.8µm)37 mm (200/pk)
MCE-08-4700	Membran Filter MCE (0.8µm)47 mm (200/pk)
MCE-08-9000	Membran Filter MCE (0.8µm)90 mm (100/pk)
MCE-08-0142	Membran Filter MCE (0.8µm)142 mm (50/pk)
<hr/>	
MCE-10-2500	Membran Filter MCE (1µm)25 mm (200/pk)
MCE-10-3700	Membran Filter MCE (1µm)37 mm (200/pk)
MCE-10-4700	Membran Filter MCE (1µm)47 mm (200/pk)
MCE-10-9000	Membran Filter MCE (1µm)90 mm (100/pk)
MCE-10-0142	Membran Filter MCE (1µm)142 mm (50/pk)

Table 3.1. MCE Disc Filters part numbers.

PTFE Membrane Disc Filters



PTFE membrane media for filtration is made of PTFE (polytetrafluorethylene), 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 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

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

Applications PTFE

Filtration of strong acids and aggressive solutions
 Venting applications
 Phase separations
 Aerosol sampling

Specification

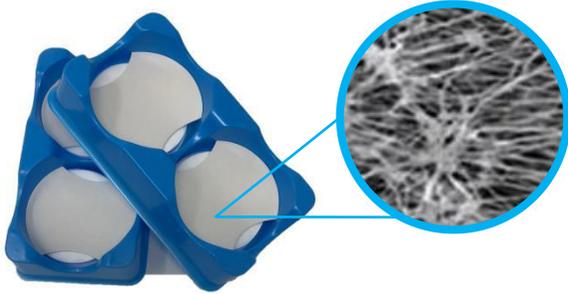
Membrane Material	Support	Pore Size (μm)	Average Bubble Point (Mpa)	Flow Rate (25°C)Δp:0.07Mpa (mL/min/cm ²)	Thickness (μm)
PTFE Hydrophobic	PP	0.1	0.2-0.22(Alcohol)	4-8	140-190
		0.22	0.13-0.17(Alcohol)	17-22	
		0.45	0.08-0.12(Alcohol)	35-45	
		1	0.04-0.06(Alcohol)	50-70	
		3	0.03-0.04(Alcohol)	90-120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

PTFE Membrane Disc Filters

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-022-9000	Membrane Filter PTFE Hydrophobic (0.22µm)90 mm (100/pk)
PTFE-022-0142	Membrane Filter PTFE Hydrophobic (0.22µm)142 mm (50/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-045-9000	Membrane Filter PTFE Hydrophobic (0.45µm)90 mm (100/pk)
PTFE-045-0142	Membrane Filter PTFE Hydrophobic (0.45µm)142 mm (50/pk)
PTFE-10-2500	Membrane Filter PTFE Hydrophobic (1µm)25 mm (200/pk)
PTFE-10-3700	Membrane Filter PTFE Hydrophobic (1µm)37 mm (200/pk)
PTFE-10-4700	Membrane Filter PTFE Hydrophobic (1µm)47 mm (200/pk)
PTFE-10-9000	Membrane Filter PTFE Hydrophobic (1µm)90 mm (100/pk)
PTFE-10-0142	Membrane Filter PTFE Hydrophobic (1µm)142 mm (50/pk)
PTFE-30-2500	Membrane Filter PTFE Hydrophobic (3µm)25 mm (200/pk)
PTFE-30-3700	Membrane Filter PTFE Hydrophobic (3µm)37 mm (200/pk)
PTFE-30-4700	Membrane Filter PTFE Hydrophobic (3µm)47 mm (200/pk)
PTFE-30-9000	Membrane Filter PTFE Hydrophobic (3µm)90 mm (100/pk)
PTFE-30-0142	Membrane Filter PTFE Hydrophobic (3µm)142 mm (50/pk)
PTFE-50-2500	Membrane Filter PTFE Hydrophobic (5µm)25 mm (200/pk)
PTFE-50-3700	Membrane Filter PTFE Hydrophobic (5µm)37 mm (200/pk)
PTFE-50-4700	Membrane Filter PTFE Hydrophobic (5µm)47 mm (200/pk)
PTFE-50-9000	Membrane Filter PTFE Hydrophobic (5µm)90 mm (100/pk)
PTFE-50-0142	Membrane Filter PTFE Hydrophobic (5µm)142 mm (50/pk)

Table 4.1. PTFE Membrane Disc Filters part numbers. Please, contact us for Hydrophilic PTFE Membrane Disc Filters.

PVC Disc Filters



PVC disc filters are used to analysis of metals, silica, and dust in air monitoring. Moisture pick up the level of this filters is low, therefore it is ideal for gravimetric analysis.

Features PVC

- Pure PVC
- Low ash quantity, ideal for multiple NIOSH analytical methods
- Low moisture pick up the level
- Meets NIOSH and OSHA requirements

Applications PVC

- Air monitoring

Specification

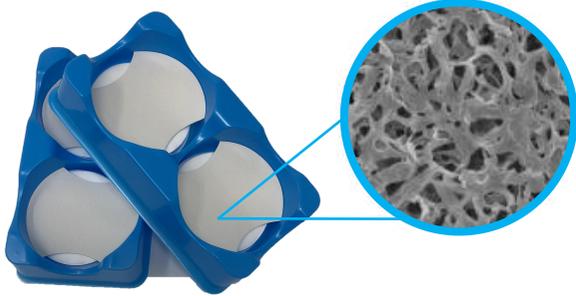
Membrane Material	Pore Size (μm)	Ash Content	Aerosol Retention	Flow Rate (25°C) $\Delta p:0.07\text{Mpa}$ (mL/min/cm ²)
PVC Poly Vinyl Chloride	5	< 0.1%	99.94%	53

PVC Disc Filters

Part Number	Description
PVC-500-2500	PVC Air Monitoring Filter 5 μm 25 mm (100/pk)
PVC-500-3700	PVC Air Monitoring Filter 5 μm 37 mm (100/pk)

Table 5.1. PVC Disc Filters part numbers.

PVDF Disc Filters



PVDF membrane filters (disc membrane), particularly microporous membranes, can be prepared to exhibit high efficiency for the particle removal. Conventional hydrophobic microporous PVDF membranes with low critical surface energy are not wetted with aqueous liquids.

Hydrophobic reinforced-type PVDF membrane 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 PVDF

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

Applications PVDF

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

Specification

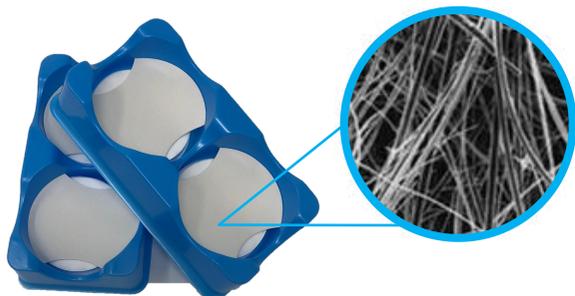
Membrane Material	Pore Size (μm)	Average Bubble Point (Mpa)	Flow Rate (25°C)Δp:0.07Mpa (mL/min/cm ²)	Thickness (μm)
PVDF Hydrophobic	0.22	0.12-0.15(Alcohol)	8-12	120-140
	0.45	0.06-0.10(Alcohol)	30-45	
PVDF Hydrophilic	0.22	0.36-0.42(Water)	8-15	120-140
	0.45	0.18-0.24(Water)	35-60	

PVDF Disc Filters

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-022-9000	Membrane Filter PVDF Hydrophobic (0.22µm)90 mm (100/pk)
PVDF-022-0142	Membrane Filter PVDF Hydrophobic (0.22µm)142 mm (50/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-045-9000	Membrane Filter PVDF Hydrophobic (0.45µm)90 mm (100/pk)
PVDF-045-0142	Membrane Filter PVDF Hydrophobic (0.45µm)142 mm (50/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-022-9000-W	Membrane Filter PVDF Hydrophilic (0.22µm)90 mm (100/pk)
PVDF-022-0142-W	Membrane Filter PVDF Hydrophilic (0.22µm)142 mm (50/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)
PVDF-045-9000-W	Membrane Filter PVDF Hydrophilic (0.45µm)90 mm (100/pk)
PVDF-045-0142-W	Membrane Filter PVDF Hydrophilic (0.45µm)142 mm (50/pk)

Table 5.1. PVDF Disc Filters part numbers.

Quartz Disc Filters



Quartz fiber filters are made of very pure quartz fibers with no binders and glass fibers. 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 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 fiber 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. The filters also exhibit good weight and form stability.

Features Quartz

Binder-free

Biologically inert with the highest chemical and thermal resistance

Enables to pass through large volumes of air

Filters made of pure quartz microfiber (SiO₂), free of binding elements or additives

Heat treated for reduction of trace organics and superior chemical purity

High filtration efficiency

Higher resistance than glass microfiber. Very good up to 1000 °C

Applications Quartz

Applications that require a maximum filter purity with a 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)	Thickness (µm)	Gas Collection Efficiency Drop (%) at 0.3 µm	Binder	Maximum Operating Temperature (°C)	pH in Boiled Water Extract	Diameter (mm)
85	0.432	99.998	No	1000	6.5-7.5	25
85	0.432	99.998	No	1000	6.5-7.5	37
85	0.432	99.998	No	1000	6.5-7.5	47
85	0.432	99.998	No	1000	6.5-7.5	20,32 x 25,4 (8 x 10 in)

Quartz Disc Filters

Typical Levels of Trace Elements(PPM)

Al	Ba	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Na	Ni	Pb	Sr	Ti	V	Zn
300	10	250	0.002	< 0.5	2	2	50	25	2	100	2	<1	3	<1	<5	6

Table 7.1. Quartz Disc Filters Typical Levels of Trace Elements(PPM)

Part Number	Description
CTZ-QS025-100	Quartz microfiber, high purity (SiO ₂), (25 mm) (100/pk)
CTZ-QS037-100	Quartz microfiber, high purity (SiO ₂), (37 mm) (100/pk)
CTZ-QS047-100	Quartz microfiber, high purity (SiO ₂), (47 mm) (100/pk)
CTZ-QS810-025	Quartz microfiber, high purity (SiO ₂), (20,32 x 25,4 mm) (8 x 10 in) (25/pk)
CTZ-QS810-050	Quartz microfiber, high purity (SiO ₂), (20,32 x 25,4 mm) (8 x 10 in) (50/pk)

Table 7.2. Quartz Disc Filters part numbers.

Extraction Thimble Filters



Extraction Thimble Filters are made from Glass Fiber or High Purity Cellulose. These thimble filters are used in a lot of applications such as Soxhlet extraction, food analyzing, waste solid analyzing, and biochemical analyzing etc.

Features **Extraction Thimble Filters**

- Smooth surface
- Homogenous structure

Applications **Extraction Thimble Filters**

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

Specification

Material	Maximum Operating Temperature (°C)	Binder	Wall Thickness (mm)
Pure Cellulose	120	None	1.0 - 1.5 - 2.0
Glass Microfiber	500	None	1.0 - 1.5 - 2.0

Extraction Thimble Filters

Cellulose Soxhlet Extraction Thimble Filters

Part Number	Description
CTZ-CT5-001	Cellulose Soxhlet Extraction Thimble 8×40 mm (IDxH) (25/pack)
CTZ-CT5-002	Cellulose Soxhlet Extraction Thimble 9×50 mm (IDxH) (25/pack)
CTZ-CT5-003	Cellulose Soxhlet Extraction Thimble 15×50 mm (IDxH) (25/pack)
CTZ-CT5-004	Cellulose Soxhlet Extraction Thimble 15×100 mm (IDxH) (25/pack)
CTZ-CT5-005	Cellulose Soxhlet Extraction Thimble 20×80 mm (IDxH) (25/pack)
CTZ-CT5-006	Cellulose Soxhlet Extraction Thimble 22×80 mm (IDxH) (25/pack)
CTZ-CT5-007	Cellulose Soxhlet Extraction Thimble 23×90 mm (IDxH) (25/pack)
CTZ-CT5-008	Cellulose Soxhlet Extraction Thimble 23×100 mm (IDxH) (25/pack)
CTZ-CT5-009	Cellulose Soxhlet Extraction Thimble 27×80 mm (IDxH) (25/pack)
CTZ-CT5-010	Cellulose Soxhlet Extraction Thimble 27×100 mm (IDxH) (25/pack)
CTZ-CT5-011	Cellulose Soxhlet Extraction Thimble 27×60 mm (IDxH) (25/pack)
CTZ-CT5-013	Cellulose Soxhlet Extraction Thimble 28×100 mm (IDxH) (25/pack)
CTZ-CT5-014	Cellulose Soxhlet Extraction Thimble 28×120 mm (IDxH) (25/pack)
CTZ-CT5-015	Cellulose Soxhlet Extraction Thimble 28×80 mm (IDxH) (25/pack)
CTZ-CT5-016	Cellulose Soxhlet Extraction Thimble 28×90 mm (IDxH) (25/pack)
CTZ-CT5-017	Cellulose Soxhlet Extraction Thimble 29×100 mm (IDxH) (25/pack)
CTZ-CT5-018	Cellulose Soxhlet Extraction Thimble 30×150 mm (IDxH) (25/pack)
CTZ-CT5-019	Cellulose Soxhlet Extraction Thimble 30×60 mm (IDxH) (25/pack)
CTZ-CT5-020	Cellulose Soxhlet Extraction Thimble 30×80 mm (IDxH) (25/pack)
CTZ-CT5-021	Cellulose Soxhlet Extraction Thimble 30×90 mm (IDxH) (25/pack)
CTZ-CT5-022	Cellulose Soxhlet Extraction Thimble 33×94 mm (IDxH) (25/pack)
CTZ-CT5-023	Cellulose Soxhlet Extraction Thimble 30×100 mm (IDxH) (25/pack)
CTZ-CT5-024	Cellulose Soxhlet Extraction Thimble 31×118 mm (IDxH) (25/pack)
CTZ-CT5-025	Cellulose Soxhlet Extraction Thimble 31×130 mm (IDxH) (25/pack)
CTZ-CT5-026	Cellulose Soxhlet Extraction Thimble 33 x 205 mm (IDxH) (25/pack)
CTZ-CT5-027	Cellulose Soxhlet Extraction Thimble 34×120 mm (IDxH) (25/pack)
CTZ-CT5-028	Cellulose Soxhlet Extraction Thimble 34×150 mm (IDxH) (25/pack)
CTZ-CT5-029	Cellulose Soxhlet Extraction Thimble 38×200 mm (IDxH) (25/pack)
CTZ-CT5-030	Cellulose Soxhlet Extraction Thimble 30×150 mm (IDxH) (25/pack)
CTZ-CT5-031	Cellulose Soxhlet Extraction Thimble 40×123 mm (IDxH) (25/pack)
CTZ-CT5-032	Cellulose Soxhlet Extraction Thimble 43×130 mm (IDxH) (25/pack)
CTZ-CT5-033	Cellulose Soxhlet Extraction Thimble 48×145 mm (IDxH) (25/pack)
CTZ-CT5-034	Cellulose Soxhlet Extraction Thimble 48×200 mm (IDxH) (25/pack)
CTZ-CT5-035	Cellulose Soxhlet Extraction Thimble 48 x 230 mm (IDxH) (25/pack)
CTZ-CT5-036	Cellulose Soxhlet Extraction Thimble 51×145 mm (IDxH) (25/pack)
CTZ-CT5-037	Cellulose Soxhlet Extraction Thimble 51×180 mm (IDxH) (25/pack)
CTZ-CT5-038	Cellulose Soxhlet Extraction Thimble 57 x 315 mm (IDxH) (25/pack)
CTZ-CT5-039	Cellulose Soxhlet Extraction Thimble 60×180 mm (IDxH) (25/pack)
CTZ-CT5-040	Cellulose Soxhlet Extraction Thimble 55×275 mm (IDxH) (25/pack)
CTZ-CT5-041	Cellulose Soxhlet Extraction Thimble 75×160 mm (IDxH) (25/pack)

Table 8.1. Cellulose Soxhlet Extraction Thimble Filters part numbers.

Extraction Thimble Filters

Cellulose Soxhlet Extraction Thimble Filters

Part Number	Description
CTZ-CT5-042	Cellulose Soxhlet Extraction Thimble 68×250 mm (IDxH) (25/pack)
CTZ-CT5-043	Cellulose Soxhlet Extraction Thimble 70×330 mm (IDxH) (25/pack)
CTZ-CT5-951	Cellulose Soxhlet Extraction Thimble 33 x 80 mm (IDxH) (25/pack)
CTZ-CT5-055	Cellulose Soxhlet Extraction Thimble 90×200 mm (IDxH) (25/pack)
CTZ-CT5-105	Cellulose Soxhlet Extraction Thimble 20×80 mm (IDxH) (25/pack)
CTZ-CT5-116	Cellulose Soxhlet Extraction Thimble 28×90 mm (IDxH) (25/pack)
CTZ-CT5-126	Cellulose Soxhlet Extraction Thimble 31×205 mm (IDxH) (25/pack)
CTZ-CT5-220	Cellulose Soxhlet Extraction Thimble 30×80 mm (IDxH), with cover, (25/pack) (with lid)
CTZ-CT5-223	Cellulose Soxhlet Extraction Thimble 30×100 mm (IDxH), with cover, (25/pack) (with lid)
CTZ-CT5-225	Cellulose Soxhlet Extraction Thimble 31×130 mm (IDxH), with cover, (25/pack) (with lid)
CTZ-CT5-406	Cellulose Soxhlet Extraction Thimble 22×80 mm (IDxH) (25/pack) (extra density)
CTZ-CT5-423	Cellulose Soxhlet Extraction Thimble 30×100 mm (IDxH) (25/pack) (extra density)
CTZ-CT5-500	Cellulose Soxhlet Extraction Thimble 79×155 mm (IDxH) (25/pack) (w/collar & Recesses)

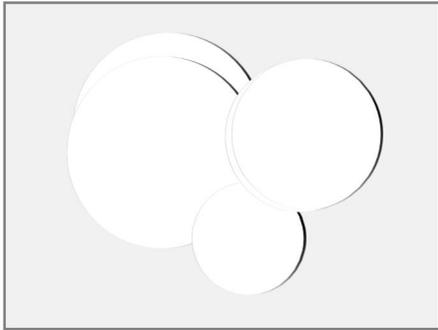
Table 8.1. Cellulose Soxhlet Extraction Thimble Filters part numbers. (continue)

Glass Microfiber Soxhlet Extraction Thimble Filters

Part Number	Description
CTZ-GT9-103	Glass Microfiber Soxhlet Extraction Thimble 16×50 mm (IDxH) (25/pack)
CTZ-GT9-104	Glass Microfiber Soxhlet Extraction Thimble 16×100 mm (IDxH) (25/pack)
CTZ-GT9-106	Glass Microfiber Soxhlet Extraction Thimble 22×80 mm (IDxH) (25/pack)
CTZ-GT9-107	Glass Microfiber Soxhlet Extraction Thimble 25×90 mm (IDxH) (25/pack)
CTZ-GT9-108	Glass Microfiber Soxhlet Extraction Thimble 25×100 mm (IDxH) (25/pack)
CTZ-GT9-109	Glass Microfiber Soxhlet Extraction Thimble 27x 80 mm (IDxH) (25/pack)
CTZ-GT9-111	Glass Microfiber Soxhlet Extraction Thimble 28×60 mm (IDxH) (25/pack)
CTZ-GT9-114	Glass Microfiber Soxhlet Extraction Thimble 28×120 mm (IDxH) (25/pack)
CTZ-GT9-118	Glass Microfiber Soxhlet Extraction Thimble 30×150 mm (IDxH) (25/pack)
CTZ-GT9-120	Glass Microfiber Soxhlet Extraction Thimble 33×80 mm (IDxH) (25/pack)
CTZ-GT9-121	Glass Microfiber Soxhlet Extraction Thimble 33×90 mm (IDxH) (25/pack)
CTZ-GT9-122	Glass Microfiber Soxhlet Extraction Thimble 33×94 mm (IDxH) (25/pack)
CTZ-GT9-123	Glass Microfiber Soxhlet Extraction Thimble 33×100 mm (IDxH) (25/pack)
CTZ-GT9-124	Glass Microfiber Soxhlet Extraction Thimble 33×118 mm (IDxH) (25/pack)
CTZ-GT9-126	Glass Microfiber Soxhlet Extraction Thimble 33×205 mm (IDxH) (25/pack)
CTZ-GT9-128	Glass Microfiber Soxhlet Extraction Thimble 35×150 mm (IDxH) (25/pack)
CTZ-GT9-131	Glass Microfiber Soxhlet Extraction Thimble 43×123 mm (IDxH) (25/pack)
CTZ-GT9-135	Glass Microfiber Soxhlet Extraction Thimble 48×230 mm (IDxH) (25/pack)
CTZ-GT9-138	Glass Microfiber Soxhlet Extraction Thimble 57×315 mm (IDxH) (25/pack)
CTZ-GT9-143	Glass Microfiber Soxhlet Extraction Thimble 75×330 mm (IDxH) (25/pack)
CTZ-GT9-500	Glass Microfiber Soxhlet Extraction Thimble 79×155 mm (IDxH) (25/pack) (collar&recesses)
CTZ-GT9-501	Glass Microfiber Soxhlet Extraction Thimble 27×55 mm (IDxH) (25/pack) (collar&recesses)

Table 8.2. Glass Microfiber Soxhlet Extraction Thimble Filters part numbers.

Qualitative Cellulose Grade Filters



Qualitative cellulose filter papers perform separation by entrapping particulate within the random matrix of cellulose fibers within the depth of the media. This media is widely used in methods requiring the determination and identification of particulate in both liquids and gas. Also, this natural fiber filter paper is commonly used to clarify liquid samples. Also available in fluted grades, which are easier to use and more convenient than flat filters when used in a filter funnel. This format reduces your preparation time due to its sharply creased pre-folded pattern. Widely used for general laboratory separation and clarification applications as well as for soil analysis methods.

CFP1 Very widely used filter media demonstrating retention of approximately $11\mu\text{m}$ and medium flow rate. Used in a broad range of laboratory and environmental applications, this media is ideally suited in separating lead sulfate, calcium carbonate, and calcium oxalate precipitates. This media is the standard for agricultural procedures such as soil and seed sample testing. Also, it is commonly used as a separation media in the food and beverage industry to extract liquids from solid samples. Due to the consistent bright white color of this media, it is ideal for photometric stain intensity measurement of air samples. The media can also be impregnated with reagents for use in quantifying optical reflectance in gas detection procedures.

CFP2 A more retentive and absorbent media than CFP1, with approximately $8\mu\text{m}$ and a medium to slow flow rate. This media is ideal for general filtration and absorbent conveyance. Commonly used in plant growth trials and monitoring pre-isolated contaminants in air and gas.

CFP3 Virtually identical to CFP1, but twice as thick resulting in a significantly slower flow rate with a retention of approximately $6\mu\text{m}$. This media does not clog as easily as the other qualitative cellulose types, which allows for much higher sample volume usage. This media also demonstrates very high levels of absorbency, permitting the media to be used as a sample conveyance substrate.

CFP4 The fastest flow rate demonstrated by any of the qualitative cellulose filter media's resulting in a low retention rate of approximately $25\mu\text{m}$. Very commonly used as the first media in a multi-stage filtration process. Ideally suited for use in organic extractions and biological fluid separation processes. Often specified in air monitoring applications where the entrapment of fine particulate is not required.

CFP5 These type filters are suitable for filtration of very fine particulate and clarification with applications in environmental sciences and chemical analysis.

CFP6 Very similar basis and thickness to CFP5, but with a slightly less retentive porosity. Also, due to the furnish of this paper, the ash content is higher than the balance of the qualitative line. This material is commonly specified in environmental applications.

Qualitative Cellulose Grade Filters Specification

Filter Media	Retention	Flow	Ash Content (%)	Basis Weight (g/m ²)	Thickness (mm)
CFP1	11 µm	Medium	0.05	86	0.200
CFP2	8 µm	Medium-Slow	0.05	101	0.170
CFP3	6 µm	Slow	0.05	190	0.320
CFP4	25 µm	Fast	0.05	94	0.210
CFP5	3.5 µm	Slow	0.05	97	0.195
CFP6	3-4 µm	Slow	0.22	103	0.177

Part Number	Description
CTZ-CFP1-032	Qualitative Grade CFP1 (Medium) cellulose filter paper, 3.2cm dia. 100/pk
CTZ-CFP1-042	Qualitative Grade CFP1 (Medium) cellulose filter paper, 4.25cm dia. 100/pk
CTZ-CFP1-047	Qualitative Grade CFP1 (Medium) cellulose filter paper, 4.7cm dia. 100/pk
CTZ-CFP1-055	Qualitative Grade CFP1 (Medium) cellulose filter paper, 5.5cm dia. 100/pk
CTZ-CFP1-070	Qualitative Grade CFP1 (Medium) cellulose filter paper, 7.0cm dia. 100/pk
CTZ-CFP1-090	Qualitative Grade CFP1 (Medium) cellulose filter paper, 9.0cm dia. 100/pk
CTZ-CFP1-110	Qualitative Grade CFP1 (Medium) cellulose filter paper, 11.0cm dia. 100/pk
CTZ-CFP1-125	Qualitative Grade CFP1 (Medium) cellulose filter paper, 12.5cm dia. 100/pk
CTZ-CFP1-150	Qualitative Grade CFP1 (Medium) cellulose filter paper, 15.0cm dia. 100/pk
CTZ-CFP1-185	Qualitative Grade CFP1 (Medium) cellulose filter paper, 18.5cm dia. 100/pk
CTZ-CFP2-042	Qualitative Grade CFP2 (Medium-Slow) cellulose filter paper, 4.25cm dia. 100/pk
CTZ-CFP2-055	Qualitative Grade CFP2 (Medium-Slow) cellulose filter paper, 5.5cm dia. 100/pk
CTZ-CFP2-070	Qualitative Grade CFP2 (Medium-Slow) cellulose filter paper, 7.0cm dia. 100/pk
CTZ-CFP2-090	Qualitative Grade CFP2 (Medium-Slow) cellulose filter paper, 9.0cm dia. 100/pk
CTZ-CFP2-110	Qualitative Grade CFP2 (Medium-Slow) cellulose filter paper, 11.0cm dia. 100/pk
CTZ-CFP2-125	Qualitative Grade CFP2 (Medium-Slow) cellulose filter paper, 12.5cm dia. 100/pk
CTZ-CFP2-150	Qualitative Grade CFP2 (Medium-Slow) cellulose filter paper, 15cm dia. 100/pk
CTZ-CFP2-185	Qualitative Grade CFP2 (Medium-Slow) cellulose filter paper, 18.5cm dia. 100/pk
CTZ-CFP2F-125	Fluted Qualitative Grade CFP2 (Medium-Slow) filter paper, 12.5cm dia, 100/pk
CTZ-CFP2F-150	Fluted Qualitative Grade CFP2 (Medium-Slow) filter paper, 15.0cm dia, 100/pk
CTZ-CFP2F-185	Fluted Qualitative Grade CFP2 (Medium-Slow) filter paper, 18.5cm dia, 100/pk
CTZ-CFP2F-240	Fluted Qualitative Grade CFP2 (Medium-Slow) filter paper, 24.0cm dia, 100/pk
CTZ-CFP3-042	Qualitative Grade CFP3 (Slow) cellulose filter paper, 4.25cm dia. 100/pk
CTZ-CFP3-055	Qualitative Grade CFP3 (Slow) cellulose filter paper, 5.5cm dia. 100/pk
CTZ-CFP3-070	Qualitative Grade CFP3 (Slow) cellulose filter paper, 7.0cm dia. 100/pk
CTZ-CFP3-090	Qualitative Grade CFP3 (Slow) cellulose filter paper, 9.0cm dia. 100/pk
CTZ-CFP3-110	Qualitative Grade CFP3 (Slow) cellulose filter paper, 11.0cm dia. 100/pk
CTZ-CFP3-125	Qualitative Grade CFP3 (Slow) cellulose filter paper, 12.5cm dia. 100/pk
CTZ-CFP3-150	Qualitative Grade CFP3 (Slow) cellulose filter paper, 15.0cm dia. 100/pk
CTZ-CFP3-185	Qualitative Grade CFP3 (Slow) cellulose filter paper, 18.5cm dia. 100/pk

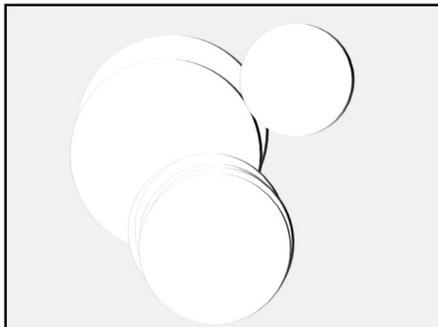
Table 9.1. Qualitative Cellulose Grade Filters part numbers.

Qualitative Cellulose Grade Filters

Part Number	Description
CTZ-CFP4-042	Qualitative Grade CFP4 (Fast) Cellulose filter paper, 4.25cm dia. 100/pk
CTZ-CFP4-055	Qualitative Grade CFP4 (Fast) Cellulose filter paper, 5.5cm dia. 100/pk
CTZ-CFP4-070	Qualitative Grade CFP4 (Fast) Cellulose filter paper, 7.0cm dia. 100/pk
CTZ-CFP4-090	Qualitative Grade CFP4 (Fast) Cellulose filter paper, 9.0cm dia. 100/pk
CTZ-CFP4-110	Qualitative Grade CFP4 (Fast) Cellulose filter paper, 11.0cm dia. 100/pk
CTZ-CFP4-125	Qualitative Grade CFP4 (Fast) Cellulose filter paper, 12.5cm dia. 100/pk
CTZ-CFP4-150	Qualitative Grade CFP4 (Fast) Cellulose filter paper, 15.0cm dia. 100/pk
CTZ-CFP4-185	Qualitative Grade CFP4 (Fast) Cellulose filter paper, 18.5cm dia. 100/pk
CTZ-CFP5-025	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 2.5cm dia. 100/pk
CTZ-CFP5-042	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 4.25cm dia. 100/pk
CTZ-CFP5-047	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 4.7cm dia. 100/pk
CTZ-CFP5-055	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 5.5cm dia. 100/pk
CTZ-CFP5-070	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 7.0cm dia. 100/pk
CTZ-CFP5-090	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 9.0cm dia. 100/pk
CTZ-CFP5-110	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 11.0cm dia. 100/pk
CTZ-CFP5-125	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 12.5cm dia. 100/pk
CTZ-CFP5-150	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 15.0cm dia. 100/pk
CTZ-CFP5-185	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 18.5cm dia. 100/pk
CTZ-CFP5-240	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 24.0cm dia. 100/pk
CTZ-CFP5-320	Qualitative Grade CFP5 (Slow) Cellulose filter paper, 32.0cm dia. 100/pk
CTZ-CFP6-025	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 2.5cm dia. 100/pk
CTZ-CFP6-042	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 4.25cm dia. 100/pk
CTZ-CFP6-047	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 4.7cm dia. 100/pk
CTZ-CFP6-055	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 5.5cm dia. 100/pk
CTZ-CFP6-070	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 7.0cm dia. 100/pk
CTZ-CFP6-090	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 9.0cm dia. 100/pk
CTZ-CFP6-110	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 11.0cm dia. 100/pk
CTZ-CFP6-125	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 12.5cm dia. 100/pk
CTZ-CFP6-150	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 15.0cm dia. 100/pk
CTZ-CFP6-185	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 18.5cm dia. 100/pk
CTZ-CFP6-240	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 24.0cm dia. 100/pk
CTZ-CFP6-320	Qualitative Grade CFP6 (Slow) Cellulose filter paper, 32.0cm dia. 100/pk

Table 9.1. Qualitative Cellulose Grade Filters part numbers. (continue)

Quantitative Cellulose Grade Filters



Quantitative cellulose filter papers are primarily used in gravimetric analysis procedures and perform separations by entrapping particulate within the random matrix of cellulose fibers within the depth of the media. This media family is also widely used in methods to prepare samples for further testing using many types of instrumentation. These very high-quality filter papers are manufactured from refined pulp and alpha linters. They are acid washed and have an extremely low ash content.

CFP40 Demonstrating medium retention and flow rates, this media is widely used in many general quantitative procedures in both liquid and gas. These procedures include; standard environmental test procedures such as soil sample analysis & the collection of trace elements and radionuclides in air samples. Also used in liquid food tests for determination of sediments, primary analysis of cement and slurries and sample preparation prior to spectrophotometry.

CFP41 Very fast flow rates and loose retention characteristics make this grade ideal for initial separation of gelatinous precipitates.

CFP42 This media demonstrates an extremely high retention rate for a cellulose filter media. Its uniquely high retention rate makes it ideal for any gravimetric analysis of very fine precipitates.

CFP43 Positioned as an intermediate within the quantitative cellulose family, this grade demonstrates medium retention and flow rates. It is ideal for gravimetric analysis of soil samples, surface water testing procedures and used in air sample monitoring equipment.

CFP44 Very similar to CFP42 but demonstrating a slightly wider retention rate within a similar flow rate. Typically used in the analysis of samples requiring separation of very fine precipitates.

Specification

Filter Media	Furnish/Finish	Retention	Flow	Ash Content (%)	Basis Weight (g/m ²)	Thickness (mm)
CFP40	Cotton/Ashless	8 µm	Medium	<0.01	85	0.200
CFP41	Cotton/Ashless	20 µm	Fast	<0.01	85	0.220
CFP42	Cotton/Ashless	2.5 µm	Slow	<0.01	140	0.170
CFP43	Cotton/Ashless	15-17 µm	Medium	<0.01	85	0.210
CFP44	Cotton/Ashless	3.0 µm	Slow	<0.01	85	0.165
CFP540	Cotton/Ashless/Hardened	7-8 µm	Medium	<0.01	85	0.210
CFP541	Cotton/Ashless/Hardened	21-23 µm	Fast	<0.01	85	0.200
CFP542	Cotton/Ashless/Hardened	2-3 µm	Very Slow	<0.01	85	0.170
CFP50	Cotton/Low Ash/Hardened	2-3 µm	Slow	0.015	86	0.177
CFP52	Cotton/Low Ash/Hardened	6-7 µm	Very Slow	0.015	101	0.200
CFP54	Cotton/Low Ash/Hardened	21-23 µm	Fast	0.015	85	0.200

Quantitative Cellulose Grade Filters

Part Number	Description
CTZ-CFP40-042	Quantitative Grade CFP40 (Medium) Cellulose filter paper, 4.25cm dia. 100/pk
CTZ-CFP40-055	Quantitative Grade CFP40 (Medium) Cellulose filter paper, 5.5cm dia. 100/pk
CTZ-CFP40-070	Quantitative Grade CFP40 (Medium) Cellulose filter paper, 7.0cm dia. 100/pk
CTZ-CFP40-090	Quantitative Grade CFP40 (Medium) Cellulose filter paper, 9.0cm dia. 100/pk
CTZ-CFP40-110	Quantitative Grade CFP40 (Medium) Cellulose filter paper, 11.0cm dia. 100/pk
CTZ-CFP40-125	Quantitative Grade CFP40 (Medium) Cellulose filter paper, 12.5cm dia. 100/pk
CTZ-CFP40-150	Quantitative Grade CFP40 (Medium) Cellulose filter paper, 15.0cm dia. 100/pk
CTZ-CFP40-185	Quantitative Grade CFP40 (Medium) Cellulose filter paper, 18.5cm dia. 100/pk
CTZ-CFP41-047	Quantitative Grade CFP41 (Fast) Cellulose filter paper, 4.7cm dia. 100/pk
CTZ-CFP41-055	Quantitative Grade CFP41 (Fast) Cellulose filter paper, 5.5cm dia. 100/pk
CTZ-CFP41-070	Quantitative Grade CFP41 (Fast) Cellulose filter paper, 7.0cm dia. 100/pk
CTZ-CFP41-090	Quantitative Grade CFP41 (Fast) Cellulose filter paper, 9.0cm dia. 100/pk
CTZ-CFP41-110	Quantitative Grade CFP41 (Fast) Cellulose filter paper, 11cm dia. 100/pk
CTZ-CFP41-125	Quantitative Grade CFP41 (Fast) Cellulose filter paper, 12.5cm dia. 100/pk
CTZ-CFP41-150	Quantitative Grade CFP41 (Fast) Cellulose filter paper, 15cm dia. 100/pk
CTZ-CFP41-185	Quantitative Grade CFP41 (Fast) Cellulose filter paper, 18.5cm dia. 100/pk
CTZ-CFP42-042	Quantitative Grade CFP42 (Slow) Cellulose filter paper, 4.25cm dia. 100/pk
CTZ-CFP42-055	Quantitative Grade CFP42 (Slow) Cellulose filter paper, 5.5cm dia. 100/pk
CTZ-CFP42-070	Quantitative Grade CFP42 (Slow) Cellulose filter paper, 7.0cm dia. 100/pk
CTZ-CFP42-090	Quantitative Grade CFP42 (Slow) Cellulose filter paper, 9.0cm dia. 100/pk
CTZ-CFP42-110	Quantitative Grade CFP42 (Slow) Cellulose filter paper, 11.0cm dia. 100/pk
CTZ-CFP42-125	Quantitative Grade CFP42 (Slow) Cellulose filter paper, 12.5cm dia. 100/pk
CTZ-CFP42-150	Quantitative Grade CFP42 (Slow) Cellulose filter paper, 15.0cm dia. 100/pk
CTZ-CFP42-185	Quantitative Grade CFP42 (Slow) Cellulose filter paper, 18.5cm dia. 100/pk
CTZ-CFP43-042	Quantitative Grade CFP43 (Medium) Cellulose filter paper, 4.25cm dia. 100/pk
CTZ-CFP43-055	Quantitative Grade CFP43 (Medium) Cellulose filter paper, 5.5cm dia. 100/pk
CTZ-CFP43-070	Quantitative Grade CFP43 (Medium) Cellulose filter paper, 7.0cm dia. 100/pk
CTZ-CFP43-090	Quantitative Grade CFP43 (Medium) Cellulose filter paper, 9.0cm dia. 100/pk
CTZ-CFP43-110	Quantitative Grade CFP43 (Medium) Cellulose filter paper, 11.0cm dia. 100/pk
CTZ-CFP43-125	Quantitative Grade CFP43 (Medium) Cellulose filter paper, 12.5cm dia. 100/pk
CTZ-CFP43-150	Quantitative Grade CFP43 (Medium) Cellulose filter paper, 15.0cm dia. 100/pk
CTZ-CFP43-185	Quantitative Grade CFP43 (Medium) Cellulose filter paper, 18.5cm dia. 100/pk

Table 10.1. Quantitative Cellulose Grade Filters part numbers.

Quantitative Cellulose Grade Filters

Part Number	Description
CTZ-CFP44-070	Quantitative Grade CFP44 (Slow) Cellulose filter paper, 7.0cm dia. 100/pk
CTZ-CFP44-090	Quantitative Grade CFP44 (Slow) Cellulose filter paper, 9.0cm dia. 100/pk
CTZ-CFP44-110	Quantitative Grade CFP44 (Slow) Cellulose filter paper, 11.0cm dia. 100/pk
CTZ-CFP44-125	Quantitative Grade CFP44 (Slow) Cellulose filter paper, 12.5cm dia. 100/pk
CTZ-CFP44-150	Quantitative Grade CFP44 (Slow) Cellulose filter paper, 15.0cm dia. 100/pk
CTZ-CFP44-185	Quantitative Grade CFP44 (Slow) Cellulose filter paper, 18.5cm dia. 100/pk
CTZ-CFP540-110	Quantitative Grade CFP540 (Medium) Cellulose filter paper, Hardened wet-strength, ashless, 7-8µm 11.0cm dia, 100/pk
CTZ-CFP540-125	Quantitative Grade CFP540 (Medium) Cellulose filter paper, Hardened wet-strength, ashless, 7-8µm 12.5cm dia, 100/pk
CTZ-CFP540-150	Quantitative Grade CFP540 (Medium) Cellulose filter paper, Hardened wet-strength, ashless, 7-8µm 15.0cm dia, 100/pk
CTZ-CFP540-185	Quantitative Grade CFP540 (Medium) Cellulose filter paper, Hardened wet-strength, ashless, 7-8µm 18.5cm dia, 100/pk
CTZ-CFP540-240	Quantitative Grade CFP540 (Medium) Cellulose filter paper, Hardened wet-strength, ashless, 7-8µm 24.0cm dia, 100/pk
CTZ-CFP540-320	Quantitative Grade CFP540 (Medium) Cellulose filter paper, Hardened wet-strength, ashless, 7-8µm 32.0cm dia, 100/pk
CTZ-CFP541-110	Quantitative Grade CFP541 (Fast) Cellulose filter paper, Hardened wet-strength, ashless, 21-23µm 11.0cm dia, 100/pk
CTZ-CFP541-125	Quantitative Grade CFP541 (Fast) Cellulose filter paper, Hardened wet-strength, ashless, 21-23µm 12.5cm dia, 100/pk
CTZ-CFP541-150	Quantitative Grade CFP541 (Fast) Cellulose filter paper, Hardened wet-strength, ashless, 21-23µm 15.0cm dia, 100/pk
CTZ-CFP541-185	Quantitative Grade CFP541 (Fast) Cellulose filter paper, Hardened wet-strength, ashless, 21-23µm 18.5cm dia, 100/pk
CTZ-CFP541-240	Quantitative Grade CFP541 (Fast) Cellulose filter paper, Hardened wet-strength, ashless, 21-23µm 24.0cm dia, 100/pk
CTZ-CFP541-320	Quantitative Grade CFP541 (Fast) Cellulose filter paper, Hardened wet-strength, ashless, 21-23µm 32.0cm dia, 100/pk
CTZ-CFP542-110	Quantitative Grade CFP542 (Very Slow) Cellulose filter paper, Hardened wet-strength, ashless, 2-3µm 11.0cm dia, 100/pk
CTZ-CFP542-125	Quantitative Grade CFP542 (Very Slow) Cellulose filter paper, Hardened wet-strength, ashless, 2-3µm 12.5cm dia, 100/pk
CTZ-CFP542-150	Quantitative Grade CFP542 (Very Slow) Cellulose filter paper, Hardened wet-strength, ashless, 2-3µm 15.0cm dia, 100/pk
CTZ-CFP542-185	Quantitative Grade CFP542 (Very Slow) Cellulose filter paper, Hardened wet-strength, ashless, 2-3µm 18.5cm dia, 100/pk
CTZ-CFP542-240	Quantitative Grade CFP542 (Very Slow) Cellulose filter paper, Hardened wet-strength, ashless, 2-3µm 24.0cm dia, 100/pk
CTZ-CFP542-320	Quantitative Grade CFP542 (Very Slow) Cellulose filter paper, Hardened wet-strength, ashless, 2-3µm 32.0cm dia, 100/pk

Table 10.1. Quantitative Cellulose Grade Filters part numbers. (continue)



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