



Life Sciences

## Filtration Products for Air Monitoring and Sampling



### *Membrane discs and sheets, filters, holders, and cassettes designed specifically for environmental air applications*

Air quality is a concern worldwide due to its known impact on health and environmental issues. Globally, government regulators set standards to control pollution in the air we breathe. Pall began research on the development and production of filters for air sampling and analysis more than 40 years ago. We are now one of the world's largest suppliers of membranes and glass fiber filters designed specifically for environmental monitoring and testing.

As knowledge about the impact of industrial by-products and the need for monitoring have increased, so has Pall's commitment to supplying products for air analysis. You will find Pall environmental testing products referenced and recommended by regulatory agencies worldwide for air monitoring and hazardous waste analysis of both organic and inorganic matrices.

For the most accurate results in your air analysis, use this guide to select the membrane or filter media optimized for your application. Then choose from our wide selection of complementary products, including filter holders, cassettes, and convenient accessory products.

*Filtration. Separation. Solution.<sup>SM</sup>*

# Air Monitoring Cassettes and Accessories

## 25 mm Air Monitoring Cassettes



*Conductive, non-static cowl prevents adherence of particles to cassette walls for more accurate analysis*

- ▶ 0.8  $\mu\text{m}$  GN-4 Metrical® (mixed cellulose esters) membrane has a low fiber background count. It is widely accepted for air monitoring of fibers, asbestos fibers, and metals, and complies with NIOSH Methods 7400 and 7402.
- ▶ Can be used to monitor respirable constituents such as silica, metal, and dusts.
- ▶ Leak proof and tamper resistant. Banded cassettes assure air-tight seal for critical applications.
- ▶ Consistent performance. 100% inspected for complete membrane assembly and secure unit sealing.

## Analyslide® Petri Dish



*Like a Petri dish on a slide*

- ▶ Stores disc filters and protects filter integrity during microscopic examination.
- ▶ Rectangular base fits most microscope stages.
- ▶ Inner cover ring for air-tight securing of sample does not interfere with viewing.
- ▶ Frosted area on base permits identification of the sample with pencil or marker.
- ▶ Convenient packaging simplifies collecting samples in the field.

## 37 mm Air Monitoring Cassettes



*GN-4 Metrical membrane assures consistent performance for industrial hygiene sampling*

- ▶ Designed to meet NIOSH and other regulatory requirements for industrial hygiene sampling using vacuum filtration.
- ▶ Widely accepted for air monitoring of fibers, asbestos fibers, and metals.
- ▶ For open- or closed-face monitoring methods.
- ▶ 0.8  $\mu\text{m}$  GN-4 Metrical membrane has a low fiber background count.
- ▶ Leak proof cassettes are available in two- or three-piece units.

## Stainless Steel Forceps



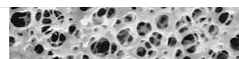
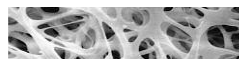
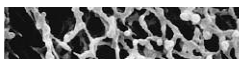
*Make filter handling easy*

- ▶ Tips have a flat, smooth surface.
- ▶ Polypropylene finger grips provide a comfortable, secure hold.
- ▶ Choose traditional black or multicolored finger grips. Bright colors make forceps easy to identify, track, and see on the lab bench.

# Filter Holders

Product	Materials of Construction	Inlet/Outlet Connections
<p><b>13 mm Plastic Swinney Filter Holder</b></p> 	<p>Inlet/Outlet Housing and Support Screen: Celcon* (acetal copolymer) Seal Washer: PTFE</p>	<p>Female threaded luer inlet, male slip luer outlet</p>
<p><b>25 mm In-line Filter Holder, Delrin* Plastic</b></p> 	<p>Body: Delrin (acetal resin) Hose Barb Adapters: Nylon O-ring: Viton* Support Screen: Type 316 stainless steel</p>	<p>1/8 in. FNPT; hose barb adapter accepts 6.4 mm (1/4 in.) ID tubing</p>
<p><b>47 mm In-line Filter Holder, Polycarbonate</b></p> 	<p>Body: Polycarbonate Hose Barb Adapters: Nylon Support Screen: Polyphenylsulfone O-ring: Silicone Vent Cap: Polypropylene</p>	<p>1/4 in. -18 FNPT; hose barb adapters accept 6.4 mm (1/4 in.) ID tubing</p>
<p><b>47 mm In-line Filter Holder, Aluminum</b></p> 	<p>Body: Anodized aluminum Hose Barb Adapters: Polyethylene Support Screen, Underdrain Disc: Electropolished type 316 stainless steel O-ring: Viton Thrust Ring: PTFE</p>	<p>3/8 in. FNPT; hose barb adapters accept 6.4 mm (1/4 in.) ID tubing</p>
<p><b>25, 37, and 47 mm Open-face Filter Holders</b></p> 	<p><i>Holder</i> 25 mm: Delrin (acetal resin) 37 and 47 mm: Aluminum Hose Barb Adapter: Nylon</p> <p><i>Support Screen</i> 25 mm: Type 316 stainless steel 37 and 47 mm: Type 304 stainless steel O-ring: Viton Cap, 37 and 47 mm: Polyethylene</p>	<p>1/8 in. -27 FNPT; includes 6.4 mm (1/4 in.) ID hose barb adapter</p>
<p><b>13, 25, and 47 mm Filter Holders, Stainless Steel</b></p> 	<p><i>13 mm Swinney Stainless Steel</i> Body: Type 304 stainless steel Gaskets: PTFE Support Screen: Photoetched type 304 stainless steel</p> <p><i>25 mm In-line Stainless Steel</i> Body, Underdrain Disc, and Support Screen: Type 316 stainless steel Hose Barb Adapters: Nylon Center Ring Collar: Type 303 stainless steel O-ring: Viton</p> <p><i>47 mm In-line Stainless Steel</i> Body: Type 316 stainless steel Hose Barb Adapters: Polyethylene Support Screen and Underdrain Disc: Electropolished type 316 stainless steel O-ring: Viton Thrust Ring: PTFE Center Ring Collar: Type 303 stainless steel</p>	<p>Standard female luer lock inlet, male slip luer outlet</p> <p>1/8 in. FNPT; hose barb adapters accept 6.4 mm (1/4 in.) ID tubing</p> <p>3/8 in. FNPT; hose barb adapters accept 6.4 mm (1/4 in.) ID tubing</p>

# Filters Optimized for Your Sampling Applications



## Media

### A/E Glass Fiber

### DM Metrice® Membrane

### GLA-5000 PVC Membrane

### GN-4 Metrice MCE Membrane

### Ion Exchange Membrane

#### Description

Binder-free borosilicate glass fiber is recommended by EPA for high-volume air sampling to collect atmospheric particles and aerosols.

Vinyl/acrylic copolymer membrane has excellent chemical resistance. Low moisture pickup provides gravimetric stability. Transmission through the infrared range makes this membrane ideal for direct analysis of silica in airborne particulate matter.

5 µm polyvinyl chloride (PVC) filters feature low ash, low moisture pickup, light tare weight, and are gravimetrically stable. Ideally suited for multiple NIOSH analytical methods including silica monitoring.

GN-4 (0.8 µm) Metrice membranes are mixed cellulose esters that dissolve completely using standard digestion procedures. These membranes clear completely, possess low artifacts, and offer minimal interference in fiber counting.

I.C.E. 450® is a strongly acidic, negatively-charged polysulfone membrane. Ion capacity is provided by a patented post-treatment process. Supplied in the hydrogen ion form of the sulphonic acid (functionality) active sites. SB-6407 is a strong base, positively-charged membrane with quaternary ammonium groups. Supplied in the chloride ion form.

#### Filter Media

Borosilicate glass without binder

Vinyl/acrylic copolymer

Polyvinyl chloride (PVC)

Hydrophilic mixed cellulose esters

SB-6407 Media: Hydrophilic polyethersulfone/copolymer  
I.C.E. 450 Media, Supported: Hydrophilic polysulfone with non-woven support  
I.C.E. 450 Media, Unsupported: Hydrophilic polyethersulfone

#### Pore Size

1 µm (nominal)

0.45 and 0.8 µm

5 µm

0.8 µm

0.45 µm

#### Typical Filter Thickness

330 µm (13 mils)

0.45 µm: 114 µm (4.5 mils)  
0.8 µm: 152 µm (6.0 mils)

N/A

152 µm (6 mils)

140 µm (5.5 mils)

#### Typical Filter Weight

N/A

3 mg/cm<sup>2</sup>

N/A

4 mg/cm<sup>2</sup>

4 mg/cm<sup>2</sup>

**Typical Aerosol Retention**  
Following ASTM D 2986-95A  
0.3 µm (DOP) at 32 L/min/  
100 cm<sup>2</sup> filter media

99.98%

N/A

99.94%

N/A

N/A

#### Typical Air Flow Rate

60 L/min/cm<sup>2</sup> at 0.7 bar  
(70 kPa, 10 psi)

L/min/cm<sup>2</sup> at 0.9 bar  
(90 kPa, 13.5 psi)  
0.45 µm: 30  
0.8 µm: 47

53 L/min/cm<sup>2</sup> at 0.7 bar  
(70 kPa, 10 psi)

55 L/min/3.7 cm<sup>2</sup> at 0.9 bar  
(90 kPa, 13.5 psi)

N/A

#### Typical Water Flow Rate

250 mL/min/cm<sup>2</sup> at 0.3 bar  
(30 kPa, 5 psi)

mL/min/cm<sup>2</sup> at 0.9 bar  
(90 kPa, 13.5 psi)  
0.45 µm: 44  
0.8 µm: 108

N/A

129 mL/min/cm<sup>2</sup> at 0.7 bar  
(70 kPa, 10 psi)

mL/min/cm<sup>2</sup> at 0.9 bar  
(90 kPa, 13.5 psi)  
SB-6407 Media: 35  
I.C.E. 450 Media, Supported: 18  
I.C.E. 450 Media, Unsupported: 11

#### Maximum Operating Temperature

Air  
550 °C (1022 °F)

Water  
66 °C (151 °F)

Water  
52 °C (125 °F)

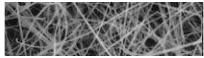
Water  
74 °C (165 °F)

SB-6407 Media and I.C.E. 450 Media, Unsupported: 150 °C (302 °F)  
I.C.E. 450 Media, Supported: 100 °C (212 °F)



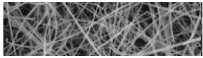
### Nylasorb™ Membrane

Pure 1 µm nylon developed specifically for the requirements of acidic dry deposition (acid rain) measurements. Assures accurate analysis of sulfates and nitrates with low background levels of nitrates and sulfates.



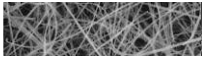
### Pallflex® Emfab™ Filters

Borosilicate microfibers reinforced with woven glass cloth and bonded with PTFE. Flushed with DI water to remove water-soluble residue. Low moisture and low air resistance. Withstands folding for weighing and transport. Preferred filter for ambient air sampling and stack emission testing.



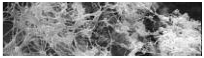
### Pallflex Fiberfilm™ Filters

Unique combination of heat-resistant borosilicate glass fibers and moisture-resistant fluorocarbon. Moisture variations in air or gases will not cause chemical reactions on the filter. Low moisture pickup and low nominal air resistance. Ideal for diesel exhaust sampling.



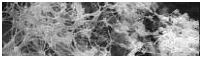
### Pallflex Tissuquartz™ Filters

Binder-free pure quartz offers superior chemical purity. High flow rate and filtration efficiency. Uniquely designed for air monitoring in high temperatures and aggressive atmospheres.



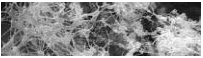
### Teflo Membrane

PTFE with unique polymethylpentene (PMP) support ring for PM-10 dichotomous, PM-2.5, and other air sampling techniques. Offers increased durability and low chemical background for X-ray fluorescence, radiometric or gravimetric techniques of elemental analysis.



### Zefluor™ Membrane

Low chemical background for highly sensitive determinations. Suited for monitoring acid rain, poly-nuclear aromatic hydrocarbons, and particulate. 0.5 µm pore size meets new NIOSH specifications.



### Zylon™ Membrane

Low chemical background for highly sensitive determinations. Meets specifications for performing NIOSH Method 5013.

Nylon	Borosilicate glass microfibers reinforced with woven glass cloth and bonded with PTFE	Heat resistant borosilicate glass fiber coated with fluorocarbon (TFE)	Pure quartz, no binder	PTFE with PMP (polymethylpentene) support ring	PTFE with PTFE support	Unsupported PTFE
1 µm (nominal)	N/A	N/A	N/A	1, 2, and 3 µm	0.5, 1, 2, and 3 µm	5 µm
90 µm (3 mils)	178 µm (7 mils)	203 µm (8 mils)	432 µm (17 mils)	1 µm: 76 µm (3 mils) 2 µm: 46 µm (1.8 mils) 3 µm: 30.4 µm (1.2 mils)	0.5 µm: 178 µm (7 mils) 1 µm: 165 µm (6.5 mils) 2 and 3 µm: 152 µm (6 mils)	140 µm (5.5 mils)
N/A	5.0 mg/cm <sup>2</sup>	3.4 mg/cm <sup>2</sup>	5.8 mg/cm <sup>2</sup>	N/A	N/A	N/A
N/A	99.95%	96.40%	99.90%	1 and 2 µm: 99.99% 3 µm: 99.79%	0.5, 1, and 2 µm: 99.99% 3 µm: 99.98%	N/A
N/A	68 L/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi)	180 L/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi)	73 L/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi)	L/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi) 1 µm: 17 2 µm: 53 3 µm: 90	L/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi) 0.5 µm: 1 1 µm: 14.6 2 µm: 25.3 3 µm: 53	13 L/min/cm <sup>2</sup> at 0.7 bar (70 kPa, 10 psi)
N/A	32 mL/min/cm <sup>2</sup> at 0.35 bar (35 kPa, 5 psi)	220 mL/min/cm <sup>2</sup> at 0.35 bar (35 kPa, 5 psi)	220 mL/min/cm <sup>2</sup> at 0.35 bar (35 kPa, 5 psi)	N/A	N/A	N/A
180 °C (356 °F)	Air 260 °C (500 °F)	Air 315.5 °C (600 °F)	Air 1093 °C (2000 °F)	N/A	N/A	N/A

See [www.pall.com/lab](http://www.pall.com/lab) for additional product specifications.

## Ordering Information

### 25 mm Air Monitoring Cassettes

Part Number	Description	Pkg
4375	Three-piece unit with GN-4 Metrical membrane and support pad	50/pkg
4382	Three-piece unit with GN-4 Metrical membrane and support pad, banded	50/pkg
4376	Three-piece unit, unassembled	50/pkg
66238	25 mm support pads, non-sterile	100/pkg

### 37 mm Air Monitoring Cassettes

Part Number	Description	Pkg
4338	Two-piece unit, unassembled	100/pkg
4339	Three-piece unit, unassembled	100/pkg
4336	Three-piece unit with GN-4 Metrical membrane and support pad	50/pkg
66239	37 mm support pads, non-sterile	100/pkg
64747	37 mm support pads, non-sterile	500/pkg

### Analyslide® Petri Dish

Part Number	Description	Pkg
7231	Analyslide Petri dish	100/pkg

### Stainless Steel Forceps

Part Number	Description	Pkg
51147	Stainless steel forceps, black grips	1/pkg
4690	Stainless steel forceps, multi-colored grips (1 each of orange, blue, chartreuse)	3/pkg

### 13 mm Plastic Swinney Filter Holder

Part Number	Description	Pkg
4317	13 mm, plastic Swinney	5/pkg

### 25 mm In-line Filter Holder, Delrin® Plastic

Part Number	Description	Pkg
1109	25 mm, in-line	6/pkg

### 47 mm In-line Filter Holder, Polycarbonate

Part Number	Description	Pkg
1119	47 mm, in-line polycarbonate	1/pkg

### 47 mm In-line Filter Holder, Aluminum

Part Number	Description	Pkg
1235	47 mm, in-line aluminum	1/pkg

### 25, 37, and 47 mm Open-face Filter Holders

Part Number	Description	Pkg
1107	25 mm, open-face Delrin plastic	6/pkg
1219	37 mm, open-face aluminum	1/pkg
1220	47 mm, open-face aluminum	1/pkg

### 13, 25, and 47 mm Filter Holders, Stainless Steel

Part Number	Description	Pkg
4042	13 mm stainless steel Swinney	1/pkg
1209	25 mm stainless steel	1/pkg
2220	47 mm stainless steel	1/pkg

### A/E Glass Fiber Filters

Part Number	Description	Pkg
61628	13 mm	500/pkg
61630	25 mm	500/pkg
60097	30 mm	100/pkg
61654	35 mm	100/pkg
61652	37 mm	500/pkg
65475	42.5 mm	100/pkg
61631	47 mm	100/pkg
61632	50 mm	100/pkg
60140	55 mm	100/pkg
60012	57 mm	100/pkg
60150	63 mm	100/pkg
61665	70 mm	100/pkg
61663	76 mm	100/pkg
60010	81 mm	100/pkg
60127	82.5 mm	100/pkg
60118	85 mm	100/pkg
61664	90 mm	100/pkg
61633	102 mm	100/pkg
60115	110 mm	100/pkg
61655	124 mm	100/pkg
65476	125 mm	100/pkg
61669	127 mm	100/pkg
66559	142 mm	25/pkg
61635	142 mm	100/pkg
61675	257 mm	100/pkg
61636	265 mm	100/pkg
66560	293 mm	25/pkg
61637	293 mm	100/pkg
61638	8 x 10 in.	100/pkg

### DM Metrical® Membrane

Part Number	Description	Pkg
64514	0.45 µm, 25 mm	100/pkg
64515	0.45 µm, 47 mm	100/pkg
64501	0.8 µm, 25 mm	100/pkg
64530	0.8 µm, 37 mm, with pads	100/pkg
64502	0.8 µm, 47 mm	100/pkg

### GLA-5000 PVC Membrane

Part Number	Description	Pkg
66466	25 mm	100/pkg
66469	37 mm	100/pkg
66467	37 mm, with support pads	100/pkg
66468	47 mm	100/pkg

### GN-4 Metrical MCE Membrane

Part Number	Description	Pkg
64677	25 mm, plain, with support pads	100/pkg
66263	25 mm, plain	100/pkg
66276	25 mm, grid, packaged in four cavities	100/pkg
64678	37 mm, plain, with support pads	100/pkg
64679	47 mm, plain	100/pkg
66179	47 mm, grid	100/pkg



**Ion Exchange Membrane**

Part Number	Description	Pkg
60041	SB-6407, 0.45 µm, 25 mm	100/pkg
60040	SB-6407, 0.45 µm, 47 mm	100/pkg
66529	I.C.E. 450, 0.45 µm, 47 mm, supported	100/pkg
66530	I.C.E. 450, 0.45 µm, 47 mm, unsupported	100/pkg

**Nylasorb™ Membrane**

Part Number	Description	Pkg
66509	47 mm	100/pkg
66510	90 mm	50/pkg

**Pallflex® Emfab™ Filters**

Part Number	Description	Pkg
7258	TX40HI20WW, 12 mm	100/pkg
7219	TX40HI20WW, 25 mm	100/pkg
7217	TX40HI20WW, 37 mm	100/pkg
7256	TX40HI20WW, 41 mm	100/pkg
7220	TX40HI20WW, 44 mm	100/pkg
7221	TX40HI20WW, 47 mm	100/pkg
7222	TX40HI20WW, 70 mm	100/pkg
7218	TX40HI20WW, 81 mm	100/pkg
7234	TX40HI20WW, 85 mm	100/pkg
7223	TX40HI20WW, 90 mm	100/pkg
7225	TX40HI20WW, 110 mm	100/pkg
7252	TX40HI20WW, 142 mm	100/pkg
7224	TX40HI20WW, 8 x 10 in.	100/pkg
7259	TX40HI45, 25 mm	100/pkg
7262	TX40HI45, 47 mm	100/pkg
7253	TX40HI45, 82.6 mm	100/pkg
7260	TX40HI45, 83 mm	100/pkg
7254	TX40HI45, 110 mm	100/pkg
7263	TX40HI75, 25 mm	100/pkg
7264	TX40HI75, 47 mm	100/pkg
7265	TX40HI75, 82.6 mm	100/pkg
7266	TX40HI75, 110 mm	100/pkg

**Pallflex Fibers™ Filters**

Part Number	Description	Pkg
7210	T60A20, 25 mm	100/pkg
7211	T60A20, 37 mm	50/pkg
7212	T60A20, 47 mm	50/pkg
7216	T60A20, 55 mm	50/pkg
7213	T60A20, 70 mm	50/pkg
7209	T60A20-HT, 70 mm, heat treated	50/pkg
7214	T60A20, 90 mm	50/pkg
7257	T60A20, 100 mm	50/pkg
7215	T60A20, 8 x 10 in.	50/pkg

**Pallflex Tissuquartz™ Filters**

Part Number	Description	Pkg
7200	25 mm	100/pkg
7201	37 mm	25/pkg
7202	47 mm	25/pkg
7199	54 mm	25/pkg

**Pallflex Tissuquartz Filters, continued**

Part Number	Description	Pkg
7191	60 mm	25/pkg
7197	63.5 mm	25/pkg
7196	64 mm	25/pkg
7205	82.6 mm	25/pkg
7190	83 mm	25/pkg
7206	85 mm	25/pkg
7187	87.5 mm	25/pkg
7203	90 mm	25/pkg
7195	100 mm	25/pkg
7207	102 mm	25/pkg
7250	110 mm	25/pkg
7249	115 mm	25/pkg
7208	125 mm	25/pkg
7251	142 mm	25/pkg
7204	8 x 10 in.	25/pkg

**Non-Heat-Treated Quartz Filters, 2500 QAO-UP**

Part Number	Description	Pkg
7198	37 mm	25/pkg
7194	47 mm	25/pkg
7240	70 mm	25/pkg
7241	90 mm	25/pkg
7193	142 mm	25/pkg

**Teflo Membrane**

Part Number	Description	Pkg
R2PL037	1 µm, 37 mm	50/pkg
R2PL047	1 µm, 47 mm	50/pkg
R2PJ037	2 µm, 37 mm	50/pkg
R2PJ041	2 µm, 41 mm	50/pkg
R2PJ047	2 µm, 47 mm	50/pkg
R2PI025	3 µm, 25 mm	50/pkg
60146	3 µm, 47 mm	50/pkg

**Zefluor™ Membrane**

Part Number	Description	Pkg
P5PQ025	0.5 µm, 25 mm	100/pkg
P5PQ047	0.5 µm, 47 mm	50/pkg
P5PL025	1 µm, 25 mm	100/pkg
P5PL037	1 µm, 37 mm, with support pads	50/pkg
P5PL047	1 µm, 47 mm	50/pkg
P5PL090	1 µm, 90 mm	50/pkg
P5PL001	1 µm, 8 x 10 in.	25/pkg
60048	2 µm, 25 mm	100/pkg
P5PJ037	2 µm, 37 mm, with support pads	50/pkg
P5PJ047	2 µm, 47 mm	50/pkg
P5PJ001	2 µm, 8 x 10 in.	25/pkg
P5PI001	3 µm, 8 x 10 in.	25/pkg

**Zylon™ Membrane**

Part Number	Description	Pkg
P4PH037	5 µm, 37 mm, with support pads	50/pkg
P4PH047	5 µm, 47 mm	50/pkg

# Air Analysis Applications

Proper product selection is critical to the integrity of your analysis. Pall's extensive manufacturing and development resources enable us to select the most appropriate materials, optimize them for each unique application, and provide superior products that ensure the most consistent, accurate results possible.

Application	Membranes	Devices and Accessories
Acid Rain	Nylasorb™ and Zefluor™ Membranes	37 and 47 mm Open-faced Aluminum Filter Holders
Aggressive Environments/ Aerosol Testing	Tissuquartz™, Emfab™, and Fiberfilm™ Membranes	47 mm In-line Filter Holders
Asbestos/Fibers	GN-6 Metrical® and GN-4 Metrical Membranes	25 and 37 mm Air Monitoring Cassettes, 25 and 37 mm Support Pads, Analyslide® Petri Dish
Diesel Fuel	Emfab and Fiberfilm Membranes	47 mm In-line Filter Holders
Gravimetric	A/E Glass Fiber, GLA-5000, Zefluor, DM Metrical, Emfab, Tissuquartz, and Teflo Membranes	37 mm Air Monitoring Cassettes, 25 mm Open-face Delrin* Holder, 37 and 47 mm Open-face Aluminum Holders, Analyslide® Petri Dish
Lead	GN-4 Metrical Membrane	37 mm Air Monitoring Cassettes, 37 mm Support Pads
Nuisance Dust	GLA-5000 and DM Metrical Membranes	37 mm Air Monitoring Cassettes, 37 mm Support Pads
PM 10, PM 2.5	A/E Glass Fiber, Tissuquartz, Teflo, and Zefluor Membranes	Analyslide Petri Dish
Polynuclear Aromatic Hydrocarbon	Zefluor and Zylon™ Membranes	37 mm Air Monitoring Cassettes, 37 mm Support Pads
Silica	GLA-5000, GN-4 Metrical, and DM Metrical Membranes	37 mm Air Monitoring Cassettes, 37 mm Support Pads, Analyslide Petri Dish

For more detailed information on how to select the correct filter for the specific NIOSH method you are using, visit our web site, contact your local Pall Life Sciences representative, or call our Technical Services Department.



Life Sciences

### Pall Life Sciences

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Ann Arbor, MI 48103-9019 USA

800.521.1520 USA and Canada  
(+800).PALL.LIFE Outside USA and Canada  
734.665.0651 phone  
734.913.6114 fax

**Australia** – Cheltenham, VIC  
Tel: 03 9584 8100  
1800 635 082 (in Australia)  
Fax: 1800 228 825

**Austria** – Wien  
Tel: 00 1 49 192 0  
Fax: 00 1 49 192 400

**Canada** – Ontario  
Tel: 905-542-0330  
800-263-5910 (in Canada)  
Fax: 905-542-0331

**Canada** – Québec  
Tel: 514-332-7255  
800-435-6268 (in Canada)  
Fax: 514-332-0996  
800-808-6268 (in Canada)

**China** – P. R., Beijing  
Tel: 86-10-6780 2288  
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