

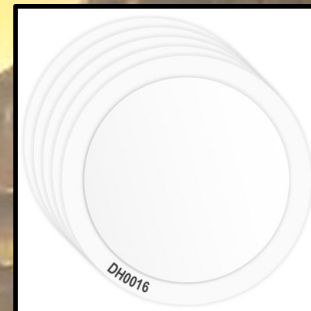
PM2.5 PTFE Air Monitoring Filter

PM2.5 PTFE membrane filters are designed for PM2.5 air monitoring. These filters are produced from high-purity hydrophobic Polytetrafluoroethylene (PTFE) according to 40 CFR Appendix-L to Part 50 Reference Method for the Determination of Fine Particulate Matter as PM2.5 in the Atmosphere.

Each filter has chemically resistant polypropylene support rings which have sequentially numbered.

Features

- ◆ Produced from high-purity hydrophobic Polytetrafluoroethylene (PTFE).
- ◆ Each membrane is sequentially numbered.
- ◆ No particle shedding, high stability.
- ◆ High sensitivity, extremely low extractable.



PM2.5 PTFE Air Monitoring Filter

Element	Al	Si	P	S	Cl	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co
Max. Conc.(ng/cm2)	94.4	32.8	22.6	13.4	9.4	5.6	8.2	7.2	13.8	4.8	2.2	2.2	5.8	4.0
Element	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Rb	Sr	Y	Zr	Mo	Rh
Max. Conc.(ng/cm2)	3.0	2.8	2.2	1.8	3.0	2.8	1.6	2.0	2.0	2.2	14.6	13.2	11.6	9.4
Element	Pd	Ag	Cd	Sn	Sb	Te	I	Cs	Ba	La	W	Au	Hg	Pb
Max. Conc.(ng/cm2)	9.6	9.6	10.8	15.2	14.4	16.2	18.6	25.0	32.2	87.6	5.0	4.4	4.4	4.8

Table-1: Maximum Trace Element Concentration by X-Ray Fluorescence.

The below specification table shows the parameters value of PM2.5 Ambient Air Monitoring Filters according to 40 CFR Appendix L to Part 50 - Reference Method for the Determination of Fine Particulate Matter as PM2.5 in the Atmosphere.

Specification

Parameter	PM2.5 PTFE Filter with support ring, sequentially numbered (50 pcs)	*
Filter Material	Hydrophobic Polytetrafluoroethylene (PTFE)	6.2
Support Ring Material	Polypropylene PP	6.3
Diameter	46.2 ± 0.25mm	6.1
Membrane Thickness	50 ± 10µm	6.5
Support Ring Thickness	0.38 ± 0.04mm	6.3
Width of Support Ring	3.68 ± 0.51mm	6.3
Pore	2 µm	6.4
Aerosol Retention (0.3 µm)	>99.7%	6.8
Flow Rate and Pressure Drop	<30cm H2O column @ 16.67L/min clean	6.6
Drop Test Wt. Stability	<20µg	6.9
Temperature Wt. Loss Stability	<20µg	6.9
Moisture Wt. Gain Stability	<10µg	6.7
Alkalinity	<25µeq/g	6.10

Table-2: Specification table.

*: The referenced section number from 40 CFR Part 50, Appendix L.

Order Information

Part Number	Description
PM2.5-200-4620	PM2.5 PTFE Filter 2µm, 46.2mm with support ring, sequentially numbered (50 pcs)