PTFE Filter Tape

Effectively captures metallic and organic contaminants for environmental monitoring XRF analysis

In response to the worldwide concern over toxic air pollutants and R&D efforts to study emissions and pollution sources, we have developed PTFE filter tape specially designed for use in X-ray fluorescence (XRF) spectrometry to monitor metallic contaminants in an air stream. Contaminants are captured in the tape's porous membrane structure in preparation for element analysis.

Our filter tape has extremely low metal content with efficient air flow capability and a retention rating of 99.7% with 0.3 µm particles. We offer Type I and Type II tape to meet your specific needs for use in air monitoring stations and in monitoring equipment, respectively. Both types come in standard widths and lengths, with custom sizes available upon request.



Custom rolls are available to meet your unique requirements.

APPLICATIONS

- · Metallic monitoring with XRF spectroscopy
- Air quality monitoring stations
- XRF monitoring equipment

FEATURES & BENEFITS

Thin, PTFE membrane with no depth filter membrane support	Has low metal content, producing a low noise-to-monitoring ratio	
Unique stretching technology	Is highly pliable and easy to use	
Uniform porous membrane structure	Enables reliable analysis results	
Optimal pore size	Provides efficient particle retention for total suspended particulate (TSP), inhalable particulate material $\leq\!10~\mu m$ (PM10) and $\leq\!2.5~\mu m$ (PM2.5)	



SPECIFICATIONS

Materials of construction	Membrane	PTFE
	Core	HDPE
Retention rating	2 µm	
Dimensions*	Width	19 mm (0.75"), 20 mm (0.79"), 30 mm (1.18")
	Length	30 m (98.4'), 33 m (108.3'), (40 m (131.2'), 100 m (328.0')
	Core inner diameter	41.2 mm (1.62"), 52.8 mm (2.08")

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Typical Membrane Characteristics and Performance

	Type I (T1)	Type II (T2)	
Retention rating	2	μm	
Thickness	50 μm	70 μm	
Gurley (s, 300 cc/1 in ² @ 4.88 inches H ₂ 0)	2.4	2.6	
Particle retention (0.3 µm)	≥9	≥99.7%	

Typical Trace Element Concentration by XRF

Typical Trace Element Concentration by Arr			
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Al	1.3 ng/cm ²	Sr	0.3 ng/cm ²
Si	1.2 ng/cm ²	Υ	0.2 ng/cm ²
Р	1.0 ng/cm ²	Zr	0.3 ng/cm ²
S	1.8 ng/cm ²	Мо	ND
Cl	1.9 ng/cm ²	Pd	1.6 ng/cm ²
К	1.1 ng/cm ²	Ag	1.6 ng/cm ²
Ca	0.5 ng/cm ²	Cd	1.5 ng/cm ²
Ti	0.6 ng/cm ²	ln	1.3 ng/cm ²
V	0.1 ng/cm ²	Sn	1.9 ng/cm ²
Cr	0.4 ng/cm ²	Sb	1.7 ng/cm ²
Mn	ND	Те	ND
Fe	0.5 ng/cm ²	Cs	ND
Со	0.4 ng/cm ²	Ва	2.1 ng/cm ²
Ni	1.0 ng/cm ²	La	2.4 ng/cm ²
Cu	0.9 ng/cm ²	Ce	ND
Zn	1.5 ng/cm ²	W	ND
Ga	1.2 ng/cm ²	Pt	ND
G3	0.3 ng/cm ²	Au	0.1 ng/cm ²
As	0.6 ng/cm ²	Hg	0.3 ng/cm ²
Se	0.3 ng/cm ²	Tl	0.1 ng/cm ²
Br	0.1 ng/cm ²	Pb	1.2 ng/cm ²
Rb	0.3 ng/cm ²	Bi	ND

SPECIFICATIONS

ND = Not detectable

ORDERING INFORMATION

WIDTH	LENGTH	CORE INNER DIAMETER
19 mm (0.75")	30 m (98.4")	52.8 mm (2.08")
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20 mm (0.79")	30 m (98.4")	52.8 mm (2.08")
30 mm (1.18")	100 m (328.0')	41.2 mm (1.62")
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FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit entegris.com and select the Contact Us link to find the customer service center nearest you.

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 Corporate Headquarters
 Customer Service

 129 Concord
 Tel +1 952 556 4181

 Billerica, MA 01821
 Fax +1 952 556 8022

 USA
 Toll Free 800 394 4083

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