PALL Laboratory

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Pallflex® Filters

Emfab™ and Tissuquartz™ Filters

Emfab – preferred filters for diesel exhaust and stack emission testing

Pure borosilicate glass microfibers reinforced with woven glass cloth and bonded with PTFE

- Withstands folding for weighing and transport
- Every filter flushed with DI water to remove water-soluble residue
- Low moisture pickup eliminates lengthy desiccations
- Low air resistance

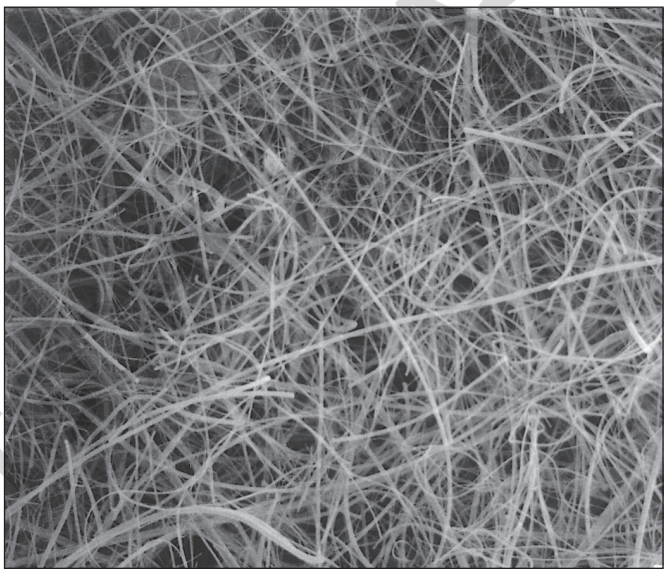
Tissuquartz – uniquely designed for air monitoring in high temperatures and aggressive atmospheres

Binder-free pure quartz

- Heat treated for reduction of trace organics and superior chemical purity
- High temperature use up to 1093 °C (2000 °F)
- High flow rate and filtration efficiency

Applications

- Emfab Filters – Low air resistance for use in critical aerosol sampling tests that demand filter purity and non-hygroscopic properties such as diesel exhaust, stack emission control, and ambient air monitoring for particulate concentration.



- Tissuquartz Filters – High temperature use for analysis of acidic gases and stack sampling aerosols. Ultra-pure soft water processing reduces residual ion content.

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Specifications

Description	Emfab Filters	Tissuquartz Filters
Filter Media	Borosilicate microfibers reinforced with woven glass cloth and bonded with PTFE	Pure quartz, no binder
Diameter	12 – 142 mm [and 8 x 10 in. (20 x 25 cm)]	25 – 142 mm [and 8 x 10 in. (20 x 25 cm)]
Typical Thickness	178 µm (7 mils)	432 µm (17 mils)
Typical Filter Weight	5.0 mg/cm^2	5.8 mg/cm^2
Typical Water Flow Rate at 0.35 bar (5 psi)	32 mL/min/cm^2	220 mL/min/cm^2
Typical Air Flow Rate at 0.7 bar (10 psi)	68 L/min/cm^2	73 L/min/cm^2
Maximum Operating Temperature – Air	260 °C (500 °F)	1093 °C (2000 °F)
Typical Aerosol Retention*	99.95%	99.90%
pH in Boiled Water Extract	Not available	6.5 – 7.5

**Following ASTM D 2986-95A 0.3 µm (DOP) at 32 L/min/100 cm^2 filter media*

Ordering Information

Tissuquartz™ Filters, 2500 QAT-UP

Heat Treated

Part Number	Description	Pkg
7200	25 mm	100/pkg
7201	37 mm	25/pkg
7202	47 mm	25/pkg
7203	90 mm	25/pkg
7204	8”x10”	25/pgk
7205	82.6 mm	25/pkg
7206	85 mm	25/pkg
7207	102 mm	25/pkg
7250	110 mm	25/pkg
Die Cut		
7200D	25 mm	100/pkg
7202D	47 mm	25/pkg
7205D	82.6 mm	25/pkg
Non- Heat Treated		
7194	47 mm	25/pkg

Emfab™ Filters

Part Number	Description	Pkg
7217	TX40HI20WW 37 mm	100/pkg
7218	TX40HI20WW 81 mm	100/pkg
7219	TX40HI20WW 25 mm	100/pkg
7221	TX40HI20WW 47mm	100/pkg
7222	TX40HI20WW 70 mm	100/pkg
7223	TX40HI20WW 90 mm	100/pkg
7224	TX40HI20WW 8”x10”	100/pkg
7225	TX40HI20WW 110 mm	100/pkg
7228	TX40HI20WW 10 mm	100/pkg
7234	TX40HI20WW 85 mm	100/pkg
7253	TX40HI20WW 82.6 mm	100/pkg

Complementary Products

Filter Holders

Part Number	Description	Pkg
1107	25 mm Open-face filter holder	6/pkg
1219	37 mm Open-face aluminum filter holder	1/pkg
1220	47 mm Open-face aluminum filter holder	1/pkg
2220	47 mm In-line stainless steel filter holder	1/pkg

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Filtration. Separation. Solution.SM

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