

Emfab – preferred filters for diesel exhaust and stack emission testing

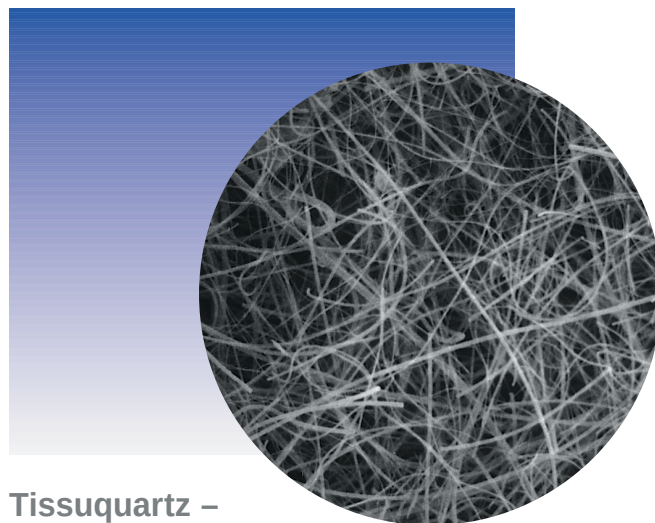
Pure borosilicate glass microfibers reinforced with woven glass cloth and bonded with PTFE

- 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.

Fiberfilm – economical filters for air monitoring applications

Pure borosilicate glass fibers with fluorocarbon coating

- Unique combination of heat-resistant borosilicate glass fibers and moisture-resistant fluorocarbon (tetrafluoroethylene, TFE) coating.
- Moisture variations in air or gases during air sampling will not cause chemical reactions on the filter.
- 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.
- Fiberfilm Filters – Suitable for high temperature and hot gas air monitoring applications. Heat-treated (HT) version available for reduction of trace organics.
- Tissuquartz Filters – High temperature use for analysis of acidic gases and stack sampling aerosols. Ultra-pure soft water processing reduces residual ion content. (Contact Pall Life Sciences for typical values.)

Specifications

Description	Emfab Filters	Fiberfilm Filters	Tissuquartz Filters
Filter Media	Borosilicate microfibers reinforced with woven glass cloth and bonded with PTFE	Heat resistant borosilicate glass fiber coated with fluorocarbon (TFE)	Pure quartz, no binder
Diameter	12 - 142 mm [and 8 x 10 in. (20 x 25 cm)]	25 - 100 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)	203 µm (8 mils)	432 µm (17 mils)
Typical Filter Weight	5.0 mg/cm ²	3.4 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	220 mL/min/cm ²
Typical Air Flow Rate at 0.7 bar (10 psi)	68 L/min/cm ²	180 L/min/cm ²	73 L/min/cm ²
Maximum Operating Temperature – Air	260 °C (500 °F)	315.5 °C (600 °F)	1093 °C (2000 °F)
Typical Aerosol Retention*	99.9%	96.4%	99.9%
pH in Boiled Water Extract	Not available	Not available	6.5 - 7.5

*Following ASTM D 2986-95A 0.3 µm (DOP) at 32 L/min/100 cm² filter media

Ordering Information

Emfab™ Filters

Product No.	Description	Packaging
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
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

Fiberfilm™ Filters

Product No.	Description	Packaging
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	50/pkg
7214	T60A20, 90 mm	50/pkg
7257	T60A20, 100 mm	50/pkg
7215	T60A20, 8 x 10 in.	50/pkg

Tissuquartz™ Filters

Product No.	Description	Packaging
7200	2500QAT-UP, 25 mm	100/pkg
7201	2500QAT-UP, 37 mm	25/pkg
7202	2500QAT-UP, 47mm	25/pkg
7199	2500QAT-UP, 54 mm	25/pkg
7191	2500QAT-UP, 60 mm	25/pkg
7197	2500QAT-UP, 63.5 mm	25/pkg
7196	2500QAT-UP, 64 mm	25/pkg
7190	2500QAT-UP, 83 mm	25/pkg
7205	2500QAT-UP, 82.6 mm	25/pkg
7206	2500QAT-UP, 85 mm	25/pkg
7203	2500QAT-UP, 90 mm	25/pkg
7204	2500QAT-UP, 8 x 10 in.	25/pkg
7195	2500QAT-UP, 100 mm	25/pkg
7207	2500QAT-UP, 102 mm	25/pkg
7250	2500QAT-UP, 110 mm	25/pkg
7208	2500QAT-UP, 125 mm	25/pkg
7251	2500QAT-UP, 142 mm	25/pkg

Non-heat Treated Quartz Filters

7198	2500QAO-UP, 37 mm	25/pkg
7194	2500QAO-UP, 47 mm	25/pkg
7193	2500QAO-UP, 142 mm	25/pkg
7240	2500QAO-UP, 70 mm	25/pkg
7241	2500QAO-UP, 90 mm	25/pkg

Complementary Products

Filter Holders

Product No.	Description	Packaging
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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