

Emfab – preferred filters for diesel exhaust and stack emission testing

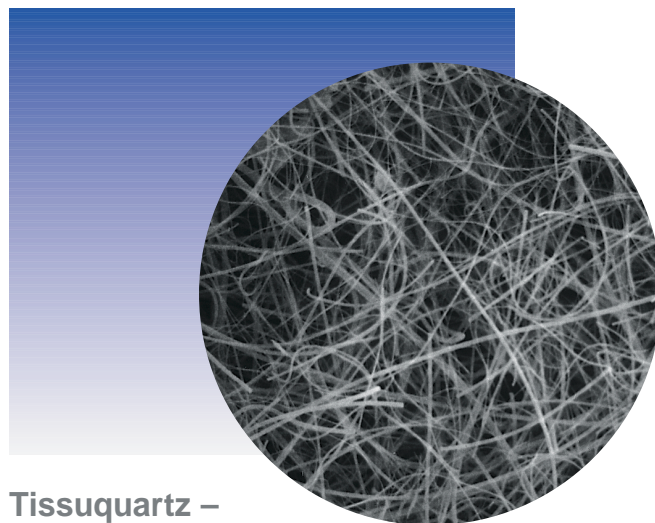
Pure borosilicate glass microfibers reinforced with woven glass cloth and bonded with PTFE

- 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

| Product No. | Description | Packaging |
|-------------|--------------------|-----------|
| 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 |



Pall Life Sciences
600 South Wagner Road
Ann Arbor, MI 48103-9019 USA

800.521.1520 toll free in USA
734.665.0651 phone
734.913.6114 fax

Australia - Sydney, NSW
Tel: 2-9428 2333
1800-635 082
Fax: 2-9428 5610

Austria - Vienna
Tel: 01-49 192 0
Fax: 01-49 192 933

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

Canada - Québec
Tel: 514-337-2744
800-435-6268 (in Canada)
Fax: 514-337-7114
800-808-6268 (in Canada)

China - P. R., Beijing
Tel: 10-6464-9156/9157
Fax: 10-6464-9139

France - St. Germain-en-Laye
Tel: 01 30 61 32 90
Fax: 01 30 61 57 08

Germany - Dreieich
Tel: 06103-307 333
Fax: 06103-307 399

India - Mumbai
Tel: 22-578 9105
Fax: 22-578 9106

Ireland - Co. Dublin
Tel: 01-2846177
Fax: 01-2807739

Italy - Milano
Tel: 02-47-79-61
Fax: 02-47-79-6394
or 02-41-22-985

Japan - Tokyo
Tel: 3-3495-8319
Fax: 3-3495-5897

Korea - Seoul
Tel: 2-569-9161
Fax: 2-569-9092

Russia - Moscow
Tel: 095-490-68-07
Fax: 095-490-69-09

Singapore
Tel: 7448255
Fax: 7434938

Spain - Madrid
Tel: 91-657-9876
Fax: 91-657-9837

Sweden - Lund
Tel: 46-158 400
Fax: 46-320 781

Switzerland - Basel
Tel: 061-638 39 00
Fax: 061-638 39 40

Taiwan - Taipei
Tel: 2-2545-5991
Fax: 2-2545-5990

United Kingdom - Portsmouth
Tel: 023 92 302600
Fax: 023 92 302601

Visit us on the Web at www.pall.com/lab

E-mail us at Lab@pall.com

Filtration. Separation. Solution.™

© 2002, 2000 Pall Corporation. Pall, Emfab, Fiberfilm, Pallflex, and Tissuquartz are trademarks of Pall Corporation. Filtration. Separation. Solution. is a service mark of Pall Corporation. ® indicates a trademark registered in the USA.

9/02, 2K, GN02.0601

PN 33187