

Pallflex® filters



Versatile filters uniquely suited for a broad range of air monitoring applications.

- Can be used for high temperature applications
- Ideal for diesel and other emissions testing, required by environmental regulatory agencies

| Grade | Application |
|--------------|---|
| Tissuquartz™ | Pure quartz, no binder. Aerosol retention: 99.9% |
| Fiberfilm™ | Heat-resistant borosilicate glass fibres coated with fluorocarbon (TFE). Aerosol retention: 96.4% |
| Emfab™ | Borosilicate glass microfibres reinforced with woven glass cloth and bonded with PTFE. Aerosol retention: 99.9% |

| Grade | Tissuquartz™ | Fiberfilm™ | Emfab™ |
|-----------------------|--------------------------|-------------------------|-------------------------|
| Weight | 5.8 mg/cm² | 3.4 mg/cm² | 5 mg/cm² |
| Thickness | 432 µm | 203 µm | 178 µm |
| Water flow rate | 220 l/min/cm² (0.35 bar) | | 32 l/min/cm² (0.35 bar) |
| Air flow rate | 73 l/min/cm² (0.7 bar) | 180 l/min/cm² (0.7 bar) | 68 l/min/cm² (0.7 bar) |
| Max. temperature (°C) | 1093 | 315.5 | 260 |

| Grade | Size (mm) | Pk | Cat. No. |
|--------------|-----------|-----|----------|
| Tissuquartz™ | 47 | 25 | 513-0028 |
| | 90 | 25 | 513-0029 |
| | 102 | 25 | 513-0030 |
| Fiberfilm™ | 25 | 100 | 513-0031 |
| | 47 | 50 | 513-0032 |
| | 70 | 50 | 513-0033 |
| | 25 | 100 | 513-0034 |
| Emfab™ | 47 | 100 | 513-0035 |
| | 70 | 100 | 516-8013 |
| | 142 | 100 | 513-0036 |

Glass microfibre filters
Whatman



These depth filters combine fast flow rates with high loading capacity and the retention of very fine particles, extending into the sub-micron range. Can be used at temperatures up to 500 °C and are ideal for use in applications involving air filtration and for gravimetric analysis of volatile materials where ignition is involved.

| Grade | Application |
|--------|---|
| GF/A | Efficient general filters, widely used for air pollution monitoring. |
| GF/B | Thicker than GF/A with higher wet strength and increased loading capacity. Recommended for concentrated suspensions and retention of small particles. Suitable for suspended solids in industrial effluents, especially at high loading. |
| GF/C | Combines fine particle retention with good flow rate. Used for collection of suspended solids in potable water and natural and industrial waste. Widely used in biochemistry for cell harvesting, liquid scintillation counting and binding assays. |
| GF/D | General purpose membrane prefilter with high loading capacity. |
| GF/F | Very high retention for filtering fine particles. Suitable for critical applications including enumeration of salmonella and pseudomonas aeruginosa, clarification of protein solutions and filtering samples and solvents prior to HPLC. EPA standard for toxicity Characteristic Leaching Procedure, method 1311. Recommended for DNA binding and purification. |
| QM-A | Ultrafine quartz (SiO ₂) microfiber filter for critical work in air pollution monitoring in stacks, flues and aerosols up to 500 °C. The filter contains 5% borosilicate glass as a binder and is extremely low in heavy metals and alkaline earth metals. |
| 934-AH | Specified for water pollution monitoring, cell harvesting, liquid scintillation counting and air pollution monitoring. |

| Grade | GF/A | GF/B | GF/C | GF/D | GF/F | QM-A | 934-AH |
|--------------------|----------------------|---------------------|----------------------|----------------------|---------------------|----------------------|----------------------|
| Weight | 53 g/m² | 143 g/m² | 53 g/m² | 121 g/m² | 75 g/m² | 85 g/m² | 64 g/m² |
| Thickness | 260 µm | 675 µm | 260 µm | 675 µm | 420 µm | 450 µm | 435 µm |
| Particle retention | 1.6 µm | 1.0 µm | 1.2 µm | 2.7 µm | 0.7 µm | 2.2 µm | 1.5 µm |
| Filtration speed | 62 s (Herzberg) | 195 s (Herzberg) | 100 s (Herzberg) | 41 s (Herzberg) | 325 s (Herzberg) | - | 47 s (Herzberg) |
| Air flow rate | 4.3 s/100 ml/6.5 cm² | 12 s/100 ml/6.5 cm² | 6.7 s/100 ml/6.5 cm² | 2.2 s/100 ml/6.5 cm² | 19 s/100 ml/6.5 cm² | 6.4 s/100 ml/6.5 cm² | 3.7 s/100 ml/6.5 cm² |