

Filtration

filter papers, glass microfibre



Filter papers, glass microfibre, quartz microfibre



Designed for environmental, gravimetric and biochemical applications.

- Retain structural integrity without weight loss when ignited to 550°C after sample filtration
- Can be rendered transparent by immersing in ethyl alcohol or other solvents
- With refractive index of 1.5097

Technical Specification - Specific

| | APFA | APFB | APFC | APFD |
|-----------------------------------|---|---|--|---|
| Particle retention, μm | 1.6 | 1.0 | 1.2 | 2.7 |
| Thickness, mm | 0.50 to 0.63 | 0.87 to 0.94 | 0.32 to 0.36 | 0.98 to 1.04 |
| Flow rate, s/ 100mL | 30 to 64 | 102 to 140 | 70 to 100 | 12 to 28 |
| Temperature, working, max., °C | ≤ 260 | ≤ 260 | ≤ 260 | ≤ 105 |
| Mass [density] g/ m ² | 53 | 143 | 53 | 120 |
| Material | Glass fibre | Glass fibre | Glass fibre | Glass fibre |
| Applications | Wastewater monitoring, collection of suspended particles in gases, cell collection, filtration of protein and nucleic acid precipitates | Liquid clarification, quantification of solids in suspensions of fine particles, scintillation counting | Determination of total suspended solids in drinking water, filtration of proteins of nucleic acid TCA precipitates, collection of cells and microorganisms | Clarification of suspensions with particle $>1\mu\text{m}$, collection of cells and microorganisms |

| | APFF | AP40 | AQFA |
|-----------------------------------|--|--|--|
| Particle retention, μm | 0.7 | 0.7 | - |
| Thickness, mm | 0.59 to 0.63 | 0.475 | 0.500 |
| Flow rate, s/ 100mL | 274 to 456 | 274 to 456 | - |
| Temperature, working, max., °C | ≤ 105 | ≤ 105 | ≤ 550 |
| Mass [density] g/ m ² | 75 | 550 | 75 |
| Material | Glass fibre | Glass fibre | Quartz fibre |
| Applications | Filtration of extremely fine precipitates such as proteins, nucleic acids and serum precipitates, TCLP | Determination of volatile suspended matter in waste water and industrial effluents, also for use in aerosol monitoring | Measurement of heavy metal concentrations and small as amounts of particles as in the USEPA PM10 ambient air motivating method |

APFA series

Retain fine particles with good efficiency, even at high flow rates

| Catalogue No | Legacy No | Alt. No | Diameter, mm | Pack qty |
|--------------|-----------|-----------|--------------|----------|
| 10701791 | - | APFA04700 | 47 | 100 |

APFB series

Greater loading capacity and higher mechanical strength when wet than APFA filters

| Catalogue No | Legacy No | Alt. No | Diameter, mm | Pack qty |
|--------------|-----------|-----------|--------------|----------|
| 10268100 | - | APFB04700 | 47 | 100 |

APFC series

Greater retention, especially for fine particulate and microorganism removal, than APFA filters

| Catalogue No | Legacy No | Alt. No | Diameter, mm | Pack qty |
|--------------|-----------|-----------|--------------|----------|
| 10548252 | - | APFC02500 | 25 | 100 |
| 10208350 | - | APFC04700 | 47 | 100 |
| 10268390 | - | APFC09050 | 90 | 50 |

APFD series

Thick filters with high flow rates and low retention

| Catalogue No | Legacy No | Alt. No | Diameter, mm | Pack qty |
|--------------|-----------|-----------|--------------|----------|
| 10536532 | - | APFD02500 | 25 | 100 |
| 10248490 | - | APFD04700 | 47 | 100 |
| 10597102 | - | APFD09050 | 90 | 50 |