

## GLASS MICROFIBRE FILTERS – with binders

Recommended filters for controlling both air and water pollution and as a pre-filter for membranes.

- Made of 100 % borosilicate glass fibres with binders.
- Glass fibre filters adsorb the finest particles down to 1 µm from liquids, in air and gases, aerosols with even 0.3-0.5 µm are separated.
- The large surface area (about 2 m<sup>2</sup>/g) provides an outstanding retention capacity.
- Extremely low content in alkali-earth metals.
- Chemical stability: It keeps all its properties in contact with acid solutions (except hydrofluoric acid) and/or basic solutions at moderate concentrations.
- Stability at high temperatures: It keeps its properties up to 500 °C, and 180 °C for FPGF10.
- High flow speed and high permeability to air.
- Usable as Pre-filter for membranes to prevent the membranes from silting up.
- FPGF9 can be used as membrane prefilter instead of the former grade GF92.



### TECHNICAL SPECIFICATIONS

Grade	Filtration Gurley s	Weight g/m <sup>2</sup>	Thickness mm	Retention rate % (NaCl-particle size <1 µm <sup>1)</sup> )	Max T <sup>a</sup> °C	Binder
FPGF6	40	80	0.35	99.97	500	inorg.
FPGF8	12	75	0.35	99	500	inorg.
FPGF9	27	70	0.35	99.97	500	inorg.
FPGF10	12	70	0.35	99.97	180	org.

<sup>1)</sup> Tested with Na-Cl particles size <1 µm, maximum at 0.3 to 0.5 µm

### APPLICATIONS

Ref. FPGF 6:

- Deposition of (radioactive) aerosols, monitoring of nuclear power plants.
- Gravimetric analysis of organic and inorganic impurities in water and waste water.
- Measurement of scintillation.
- Removal of proteins in beer samples.

Ref. FPGF 10:

- Deposition of carbon black.
- Filter belts for automatic air filtering equipment.

Ref. FPGF 8 and FPGF 9:

- For applications in compliance with DIN 53991.
- Measurement of immission, measurement of dust in air and gases, monitoring of the efficiency of filtration and dedusting, monitoring the combustion air of power plants and of steel and iron industry, purification of compartment air.
- FPGF9 can be used as membrane prefilter, it offers the same performance like the formerly used grade GF92.



### NOTES FOR HANDLING

- Weight consistency: No relevant changes in weight due to variations in the ambient humidity.
- Limited bending resistance. Brushing against other surfaces may cause the loss of fibres (keep the filters in their original box until their use).

### ORDERING INFORMATION

Grade	FPGF 6	FPGF 8	FPGF 9	FPGF 10
Ø				
42.5 mm	GF60425	-	-	-
47 mm	GF6047	GF8047	GF9047	GF10047
50 mm	GF6050	GF8050	GF9050	GF10050
55 mm	GF6055	GF8055	GF9055	GF10055
70 mm	GF6070	GF8070	GF9070	GF10070
90 mm	GF6090	GF8090	GF9090	GF10090
100 mm	GF6100	GF8100	GF9100	GF10100
110 mm	GF6110	GF8110	GF9110	GF10110
125 mm	GF6125	-	GF9125	GF10125
142 mm	GF6142	-	GF9142	GF10142
150 mm	GF6150	-	GF9150	GF10150
185 mm	GF6185	-	-	-
240 mm	GF6240	-	-	-

Presentation: 100 units / box

Other sizes available on request.