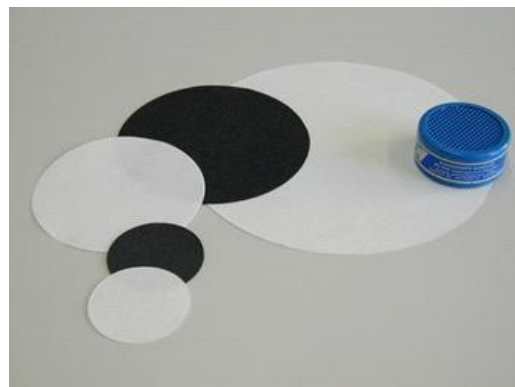


Filter media

The high quality filter media are used for the separation of airborne particles.

According the requirements, the suitable filter media will be inserted into the corresponding filter housing of the airsampler.

After the sampling procedure, the filter media shall be examined with a contamination monitor.



Filter of Cellulose

High clean filter paper (disc plain) of type 604. Used for qualitative analysis and environmental monitoring. Made of high grade cellulose and cotton linters. Very smooth surface with extremely low release of fibres.

Properties:

Thickness:	0.19 mm
Area density:	79 g/m ²
alpha-Cellulose:	> 95 %
Retention range:	12-25 my
Time of filtration:	50 s acc. to Herzberg
Ash percentage:	0.08 %
Packing:	100 pcs. per box

Filter of Glass fibres GF10

High effective glass fibres paper (disc plain) of type GF10. Used for qualitative analysis and environmental monitoring. Made of 100% borosilicat micro fibres and organic binder. High sample capacity for smallest particles.

Properties:

Thickness:	0.35 mm
Area density:	70 g/m ²
Retention rate:	99.97 % for NaCl particles < 1 my
Filter class:	H13 acc. EN 1822
Time of filtration:	12 s acc. to Gurley
max. temperature:	180 °C
Packing:	100 pcs. per box

Glass fiber filters are mainly used in environmental analysis and air and water pollution control and have the following properties:

- Hahnemühle glass fiber filters are made of 100% borosilicate microfibers.
- From liquids they retain fine particles up to 1µm, from air and gases even aerosols with 0.3 - 0.5µm are retained.
- The large surface area (approx. 2 sqm/g) ensures an exceptional retention capacity.
- The high flow rate and high air permeability allow a large sample volume.
- Glass fiber filters retain all properties when in contact with acid solutions (except hydrofluoric acid) and alkaline solutions at moderate concentrations.
- They retain all properties up to 180°C
- Due to the extremely low content of metals, they allow a very accurate analytical result.

Filter of activated Charcoal

Filter paper with activated carbon (disc plain) type MN 728. Used for qualitative analysis and for separation of radio-iodine. The activated carbon is incorporated in the paper and will not be released to the air flow.

Properties:

Thickness: 0.40 mm
 Area density: 170 g/m²
 Activated carbon: 30 %
 Time of filtration: 55 s acc. DIN 53137
 Packing: 100 pcs. per box

Filter cartridge

with impregnated charcoal for the separation of radio-Jod.

Type: BG-300
 Diameter: 2.27" (57.3 mm)
 Height: 1.04" 26.0 mm)
 Mesh: 20 x 30
 Housing: Plastic
 Thickness: 1.65 mm (Grid) resp. 3.0 mm (side)
 Packing: 10 pcs. per air tight bag

Item no.:

Filter diameter	Cellulose	Glass fibres GF10	activ. Charcoal
D = 25 mm	102801		
D = 35 mm			112937
D = 50 mm		114545	112938
D = 55 mm	102568	113035	102569
D = 60 mm		114549	112939
D = 100 mm	116537	116538	116539
D = 105 mm	110030	112730	101055
D = 155 mm	115062	115063	116553
D = 200 mm	102802	115064	110488
Loosely and activated	---	---	101124
Cartridge BG-300 D = 2.27" (57.3mm) H = 1.04" (26.0mm)	---	---	112819

Please call for further diameters.

Air flow rate

The following air flow rates were determined with new (unused) filters at a temperature of 20°C:

Air sampler: **CIRRUS (AS 713)**

Filter holder	Filter diameter	Cellulose	Glass fibres GF10	activ. Charcoal
101319	55 mm	40 l/min. (2.4 m ³ /h)	40 l/min. (2.4 m ³ /h)	37 l/min. (2.2 m ³ /h)

Air sampler: **AS 730 XL**

Filter holder	Filter diameter	Cellulose	Glass fibres GF10	activ. Charcoal
116122	100 mm	1'106 l/min. (66 m ³ /h)	1'140 l/min. (68 m ³ /h)	n.a.
112419	105 mm	1'165 l/min. (70 m ³ /h)	1'200 l/min. (72 m ³ /h)	n.a.
111268	200 mm	2'165 l/min. (130 m ³ /h)	1'400 l/min. (84 m ³ /h)	1'250 l/min. (75 m ³ /h)
115522 115523	4x 105 mm	2'080 l/min. (125 m ³ /h)	1'350 l/min. (81 m ³ /h)	1'200 l/min. (72 m ³ /h)

Air sampler: **ASPIRO 1200**

Filter holder	Filter diameter	Cellulose	Glass fibres GF10	activ. Charcoal
---	105 mm	1'330 l/min. (80 m ³ /h)	1'700 l/min. (102 m ³ /h)	n.a.
116080	155 mm			
111268	200 mm	2'500 l/min. (150 m ³ /h)	2'470 l/min. (148 m ³ /h)	1'330 l/min. (80 m ³ /h)

Air sampler: **ASPIRO 1200 ACF**

Filter holder	Filter diameter	Cellulose	Glass fibres GF10	activ. Charcoal
---	155 mm	2'230 l/min. (134 m ³ /h)	2'350 l/min. (141 m ³ /h)	1'250 l/min. (75 m ³ /h)

Air sampler: **TOPAS**

Filter holder	Filter diameter	Cellulose	Glass fibres GF10	activ. Charcoal
116122	100 mm	450 l/min. (27 m ³ /h)	450 l/min. (27 m ³ /h)	n.a.
112419	105 mm	460 l/min. (28 m ³ /h)	460 l/min. (28 m ³ /h)	n.a.
111268	200 mm	620 l/min. (37 m ³ /h)	620 l/min. (37 m ³ /h)	417 l/min. (25 m ³ /h)

Air sampler: **PORTAS**

Filter holder	Filter diameter	Cellulose	Glass fibres GF10	activ. Charcoal
101319	55 mm	24 l/min. (1.4 m ³ /h)	24 l/min. (1.4 m ³ /h)	20 l/min. (1.2 m ³ /h)
112817	55 / 57 mm	24 l/min. (1.4 m ³ /h)	24 l/min. (1.4 m ³ /h)	20 l/min. (1.2 m ³ /h)

Air sampler: **CIRRUS Top Flow**

Filter holder	Filter diameter	Cellulose	Glass fibres GF10	activ. Charcoal
101319	55 mm	116 l/min. (7 m ³ /h)	118 l/min. (7.1 m ³ /h)	62 l/min. (3.7 m ³ /h)
112817	55 / 57 mm	114 l/min. (6.8 m ³ /h)	116 l/min. (7 m ³ /h)	60 l/min. (3.6 m ³ /h)