FIBRAFIX®
Filter sheets

Standard sizes: 200, 400, 600 mm

Square / Round | Specific cut-outs

Special formats and dimensions on request

FIBRADISC®
Filter modules

Ø 12" | Ø 16" | Lenses: 16 (reduced number on request)

HT (high temperature version)

PLUS 2 (back flushable version)

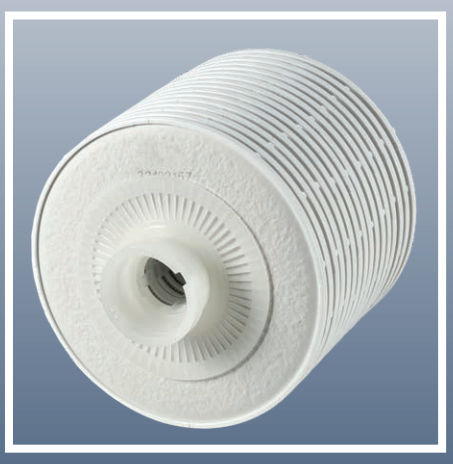
TYPES	COARSE FILTRATION					FINE FILTRATION							STERILE FILTRATION				
AF		09		11	17	21	31	41		71		101	110	120	130	140	
XS (specifically for spirits)						40		70	80	90		100	110				
SY (with synthetic fibers)							30		50			100		120			

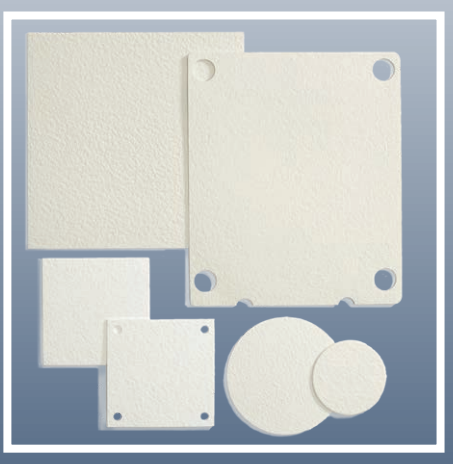
Note: All filter sheet types and grades are also available as filter modules.

Additional filter media from this product line					
FIBRACAP®	Capsule for lab trials	2"			

Note: FIBRACAP® are availabe with different above mentioned FIBRAFIX® grades inserted.







Technical Data Sheet

FIBRADISC® AF

LENTICULAR FILTER MODULES

Description

Lenticular modules containing FIBRAFIX® AF depth filter sheets manufactured under tightly controlled conditions to exacting specifications.

Module Version

Standard:	Standard lenticular module
Plus2:	Back flushable module
HT:	Hight temperature resistant module (Plus2 N/A)

Components

Filter Sheet:	Purified and bleached cellulose from sustainable sources, natural filter aids, wet strength agent
Standard and Plus2:	Polypropylene
Screen:	Polyester (installed on Plus2 only)
HT:	Polyamide
Gaskets:	Silicone sealing gasket (optionally EPDM, FKM, NBR)

Dimensions

	12" K		12"		16"(1)	
Adapter type(2)	DOE	DOR	DOE	DOR	DOE	DOR
Height [mm]	132	178	272	330	272	330
Filtration area [m²]	0.6	0.7	1.8		3.6	
Number of lenses	5	6	16		16	
Dry/wet weight(3) [kg]	2.0 / 3.5		4.4 / 8.5		8.6 / 17	
Diameter [mm]	290		290		400	

(1) Plus2 available, (2) DOE: Double Open End (flat adapter), DOR: Double O-Ring (plug-in adapter), (3) indicative values.

FIBRADISC® AF Product Range

Sheet grade	Retention rate [µm]	Water value(4) [L/m²×min]	Ash content [%]	Filtration type
AF 09	10.0 – 30.0	1500 – 2100	<1.0	Coarse
AF 11	10.0 – 30.0	1100 – 1700	<1.0	Coarse
AF 17	8.0 – 20.0	1200 – 1400	42.0 – 46.0	Coarse
AF 21(5)	6.0 – 15.0	690 – 870	19.0 – 25.0	Fine
AF 31(5)	5.0 – 12.0	280 – 360	39.5 – 44.5	Fine
AF 41(5)	4.0 – 9.0	240 – 300	29.0 – 35.0	Fine
AF 71(5)	1.5 – 3.0	160 – 220	35.0 – 41.0	Fine
AF 101(5)	0.5 – 1.5	98 – 121	39.0 – 45.0	Fine
AF 110	0.5 – 0.8	69 – 81	46.1 – 51.1	Sterile
AF 120	0.4 – 0.7	50 – 65	36.0 – 42.0	Sterile
AF 130	0.4 – 0.6	43 – 52	47.5 – 52.5	Sterile
AF 140	0.2 – 0.4	26 – 35	47.5 – 52.5	Sterile

(4) Δp = 100 kPa, the indicated water value is not related in any way to the actual filtration flow rate.
(5) Plus² available.

Bacterial Retention

Sheet grade	Bacterial species	Number of cells	LRV
AF 110	Serratia marcescens	$1.0 \times 10^6/cm^2$	>5
AF 120	Serratia marcescens	$1.0 \times 10^7/cm^2$	>6
AF 130	Serratia marcescens	$1.0 \times 10^8/cm^2$	>7
AF 140	Serratia marcescens	$1.0 \times 10^9/cm^2$	>8

General Operating Conditions

Parameter	Recommendation
Maximal differential pressure	2.4 bar / 35 psi
Maximal differential pressure for sterilizing filter sheets	1.5 bar / 21 psi
Rinsing volume	50 L/m^2
Maximum temperature (continuous)	82 °C
Maximum temperature (short term)	90 °C
Minimum temperature	-5 °C
Sterilization	Hot water or chemically

Operating Conditions Plus2

Parameter	Recommendation
Maximum backflow differential pressure	0.5 bar / 7 psi at 25 °C

Operating Conditions HT

Parameter	Recommendation
Maximum temperature (continuous)	110 °C
Maximum temperature (short term)	140 °C

Chemical Stability

Substance	[%]	Media	PP	Gasket material			
				MVQ	EPDM	FKM	NBR
NaOH	1.0	r	r	r	r	lr	r
HCl	5.0	r	r	lr	lr	r	lr
HNO_3	5.0	r	r	nr	lr	r	nr
H_2SO_4	10	r	r	nr	lr	r	nr
Citric acid	10	r	r	r	r	r	r
Acetic acid	20	r	r	nr	lr	r	nr
Peracetic ac	1.0	r	r	r	lr	lr	lr
Acetone	conc	r	lr	lr	r	nr	nr
Ethanol	80	r	r	lr	r	r	nr
SO_2	0.1	r	r	r	r	r	nr

r = resistant, lr = limited resistance, nr = not resistant, at 50 °C. This table is for guidance purposes only.

Quality Assurance

Certified to:
- ISO 9001 (quality management)
- ISO 14001 (environmental management)
- Kosher standard

Compliant to:
- Recommendation XXXVI/1 of the German Federal Institute for Risk Assessment (Bundesinstitut für Risikobewertung, BfR)
- FDA (US Food and Drug Administration) 21 CFR 177.2260 e-k
- EU-Directive 10/2011
- USP Class VI

Packaging and Storage

Filter modules are hygienically packed in plastic bags and placed in cardboard boxes. They must be stored in their original packaging in a dry, odorless and well-ventilated area. The modules should be used within 60 months from the date of manufacture.

Disposal

The respective official regulations for disposal must be followed depending on the filtered product. Uncontaminated modules can be disposed of as non-hazardous waste.

Remarks

The validity of the information cannot be guaranteed for every application. All information is based on current knowledge and does not claim to be complete. No liabilities can be derived from this information. FILTROX reserves the right to make changes due to technical improvements.

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