



ACTIVADISC®

MODULES WITH IMMOBILIZED ACTIVATED CARBON

Description

Lenticular filter modules containing ACTIVASORB® depth filter sheets.

- High activated carbon adsorption capacity incorporated into filter sheets
- Simple and safe activated carbon handling in a module
- Increased adsorption of the activated carbon in comparison to powder
- Regulatory support for pharma grade

Module Versions

Standard: Standard lenticular filter module
PLUS: Lenticular module with extra carbon capacity

Components

Sheet: Purified and bleached cellulose from sustainable sources, natural filter aids, wet strength agents, activated carbon
Modules: Polypropylene
Fleece: Polyester
Gaskets: Silicone sealing gasket (optionally EPDM, FKM, NBR)

Extractable

Substance	Description
Endotoxins (CA, PR, PXS)	<0.125 EU/mL ⁽¹⁾
Heavy metals	<50 ppm. According to recommendation XXXVI/1, BfR
MCPD / DCP from wet strength agent	In accordance with legal regulations
GMO	Absent
Allergic substances	Absent

⁽¹⁾ after rinsing with 50 L/m² WFI

Extractable Ions

Ca	Mg	Pb	Zn	Cd	Cu	Ni	Co	Fe	Al
<1.0	<0.5	<0.06	<0.01	<0.005	<0.01	<0.02	<0.025	<0.05	<0.05

mg/L after rinsing with 50 L/m² WFI

Dimensions

ACTIVADISC®	12" M		12"		16"	
Adapter type ⁽²⁾	DOE	DOR	DOE	DOR	DOE	DOR
Height [mm]	132	178	272	330	272	330
Filtration area [m ²]	0.6	0.7	1.7	1.8	3.4	3.6
Number of lenses	5	6	15	16	15	16
Weight dry/wet ⁽³⁾ [kg]	2.0 / 3.5		4.4 / 8.5		8.6 / 17.0	
Diameter [mm]	290		290		400	

ACTIVADISC®	16" PLUS	
Adapter type ⁽²⁾	DOE	DOR
Height [mm]	272	330
Filtration area [m ²]	2.034	2.26
Number of lenses	9	10
Carbon content [g]	2930 ⁽⁴⁾	3255 ⁽⁴⁾
Weight dry/wet ⁽³⁾ [kg]	8.5 / 16.0	8.5 / 16.0
Diameter [mm]	400	400

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

⁽⁴⁾ compared to 2440 g for DOE and 2600 g for DOR in a 16" standard module.

Product Range

Grade	Thickness [mm]	Ash content [%]	Application field
PXS	3.9 – 4.4	<4.0	Pharma
PR	4.1 – 4.6	<2.1	Pharma
CA	4.0 – 4.5	<3.0	Pharma/Food
RHC	4.0 – 4.5	<5.0	Food
RW ⁽⁵⁾	3.9 – 4.4	9.5 – 15.8	Food
LWT ⁽⁵⁾	3.3 – 3.7	9.5 – 15.8	Food
CS ⁽⁵⁾	3.1 – 3.6	10.0 – 14.0	Food
NG ⁽⁵⁾	3.1 – 3.6	20.0 – 25.0	Food

⁽⁵⁾ standard modules only

Operating Conditions

Parameter	Recommendation
Maximum differential pressure	2.4 bar
Change out differential pressure	1.5 bar
Rinsing volume	50.0 L/m ²
Maximum temperature (continuous)	82 °C
Sterilization temperature (short term)	90 °C
Minimum temperature	-5 °C
Sterilization	Hot water or chemically

Chemical Stability

Substance	[%]	Gasket material					
		Media	PP	MVQ	EPDM	FKM	NBR
NaOH	1.0	r	r	r	r	lr	r
HCl	5.0	r	lr	lr	lr	r	lr
HNO ₃	5.0	r	r	nr	lr	r	nr
H ₂ SO ₄	10.0	r	r	nr	lr	r	nr
Citric acid	10.0	r	r	r	r	r	r
Acetic acid	20.0	r	lr	nr	lr	r	nr
Peracetic ac	0.1	r	r	r	lr	lr	lr
Acetone	conc	r	lr	lr	r	nr	nr
Ethanol	80.0	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 certificate

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 certification

Packaging and Storage	ACTIVADISC® 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 36 months for life science and 60 months for food and beverages 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 in the course of technical improvements.