

FIBRADISC® XS



MODULES WITH FIBRAFIX® XS DEPTH FILTER SHEETS

Description	Lenticular modules containing FIBRAFIX® XS depth filter sheets for distillates & spirits.	
	Low Ca, Mg and Fe content compared to standard filter sheets	
Module Version	Standard:	Standard lenticular module
Components	Filter sheet:	Purified and bleached cellulose from sustainable sources, natural filter aids, wet strength agent
	Standard module:	Polypropylene
	Gaskets:	Silicone sealing gasket (optionally EPDM, FKM, NBR)

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

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

FIBRADISC® XS Product Range

Sheet grade	Retention rate [µm]	Water value ⁽³⁾ [L/m ² ×min]	Ash content [%]	Filtration type
XS 40	3.0 – 9.0	275 – 505	47.0 – 55.0	Fine
XS 70	1.0 – 4.0	191 – 331	48.0 – 56.0	Fine
XS 80	1.0 – 3.5	187 – 333	42.0 – 50.0	Fine
XS 90	0.5 – 2.0	135 – 235	41.0 – 49.0	Fine
XS 100	0.2 – 0.5	115 – 211	42.0 – 50.0	Fine
XS 110	0.2 – 0.4	89 – 139	47.0 – 55.0	Sterile

⁽³⁾ Δp = 100 kPa, the indicated water value is not related in any way to the actual filtration flow rate.

Trace Metal Extracts

Grade	Units	Ca ⁽⁴⁾		Mg ⁽⁴⁾		Fe ⁽⁴⁾	
		Nominal	Max	Nominal	Max	Nominal	Max
XS 40	ppm	3.80	5.50	1.20	3.00	0.60	2.00
XS 70	ppm	2.50	5.50	1.10	3.00	0.50	2.00
XS 80	ppm	3.80	5.00	1.20	2.50	0.60	2.00
XS 90	ppm	3.70	5.00	1.20	2.50	0.70	2.00
XS 100	ppm	3.80	5.00	1.20	2.50	0.60	2.00
XS 110	ppm	2.90	5.00	1.55	2.50	0.70	2.00

⁽⁴⁾ The analysis are carried out in accordance with the methods of the "Arbeitskreis Technik / Analytik der Europäischen Fachvereinigung Tiefenfiltration e.V. (EFT)" as well as FILTRIX internal standard procedures.

Operating Conditions

Parameter	Recommendation
Maximal module differential pressure	2.4 bar / 35 psi
Filter sheets change out differential pressure	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

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 ₂ SO 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)

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

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. Untaminated 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.