



# ACTIVASORB®

## DEPTH FILTER SHEETS WITH ACTIVATED CARBON

### Description

Depth treatment sheets containing immobilized activated carbon.

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

### Components

Purified and bleached cellulose from sustainable sources, natural filter aids, wet strength agents, and activated carbon.

### Formats

All standard sizes and tailored formats are available.

### Extractable

Substance	Description
Endotoxins (CA, PR, PXS)	<0.125 EU/mL <sup>(1)</sup>
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

<sup>(1)</sup> after rinsing with 50 L/m<sup>2</sup> WFI

### Extractable Ions<sup>(2)</sup>

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

<sup>(2)</sup> valid for pharma grades only; All values in mg/L after rinsing with 50 L/m<sup>2</sup> WFI

### 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	3.9 – 4.4	9.5 – 15.8	Food
LWT	3.3 – 3.7	9.5 – 15.8	Food
CS	3.1 – 3.6	10.0 – 14.0	Food
NG	3.1 – 3.6	20.0 – 25.0	Food

### Operating Conditions

Parameter	Recommendation
Maximum differential pressure	2.5 bar
Change out differential pressure	1.5 bar
Rinsing volume	50 L/m <sup>2</sup>
Sterilization	Water 85 °C / Steam 125 °C

### Chemical Stability

		°C				°C				°C	
Substance	[%]	20	80	Substance	[%]	20	80	Substance	[%]	20	80
NaOH	1.0	r	r	HCl	5.0	r	lr	SO <sub>2</sub>	0.1	r	n/a
NaOH	2.0	r	lr	HNO <sub>3</sub>	5.0	r	lr	Acetone	conc	r	r
Peracetic ac.	0.1	r	lr	H <sub>2</sub> SO <sub>4</sub>	10.0	r	lr	Ethanol	80.0	r	r
Acetic acid	20.0	r	r	Citric acid	10.0	r	r	Butanol	80.0	r	r

r = resistant, lr = limited resistance. This table is for guidance purposes only

**Quality Assurance**

Certified to:

- ISO 9001 (quality 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

**Packaging and Storage**

Filter sheets are hygienically shrink-wrapped and packaged in cardboard boxes. They must be stored in their original packaging in a dry, odorless, and well-ventilated area. The sheets 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 sheets 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.