

## DEPTH FILTER SHEETS WITH SYNTHETIC FIBERS



### Description

High quality depth filter sheets reinforced by synthetic fibers.

- Higher wet strength
- Higher flow rates
- Greater resistance against pH
- Less absorption of color
- Longer lifetime

compared to standard filter sheets.

### Components

Purified and bleached cellulose from sustainable sources, natural filter aids, synthetic fibers, wet strength agent.

### Formats

All standard sizes and tailored formats are available.

### Product Range

Grade	Retention rate [µm]	Water value <sup>(1)</sup> [L/m <sup>2</sup> ×min]	Thickness [mm]	Ash content [%]	Filtration type
SY 30	5.0 – 12.0	421 – 758	3.2 – 3.6	34.0 – 40.0	Fine
SY 50	3.0 – 6.0	225 – 393	3.2 – 3.6	36.0 – 42.0	Fine
SY 100	0.6 – 1.5	140 – 253	3.2 – 3.6	33.0 – 39.0	Fine
SY 120	0.4 – 0.7	66 – 86	3.6 – 3.9	36.0 – 42.0	Sterile

<sup>(1)</sup> Δp = 100 kPa, the indicated water value is not related in any way to the actual filtration flow rate.

### Bacterial Retention

Grade	Bacterial species	Number of cells	LRV
SY 120	Serratia marcescens	1.0 × 10 <sup>7</sup> /cm <sup>2</sup>	> 6

### Operating Conditions

Parameter	Recommendation
Maximum differential pressure	2.5 bar / 36 psi
Maximum differential pressure for sterile filtering sheets	1.5 bar / 21 psi
Rinsing volume	50 L/m <sup>2</sup>
Sterilization	Water 85 °C / Steam 125 °C

### Chemical Stability

Substance	[%]	°C	20	80	Substance	[%]	°C	20	80	Substance	[%]	°C	20	80
NaOH	1.0	r	r		HCl	5.0	r	lr		SO <sub>2</sub>	0.1	r	r	-
NaOH	2.0	r	lr		HNO <sub>3</sub>	5.0	r	lr		Acetic acid	20.0	r	r	
H <sub>2</sub> O <sub>2</sub>	1.0	r	lr		H <sub>2</sub> SO <sub>4</sub>	10.0	r	lr		Ethanol	80.0	r	r	
Peracetic ac.	1.0	r	lr		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)
  - ISO 14001 (environmental management)
  - ISO 22000 (food safety)
  - 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 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.