



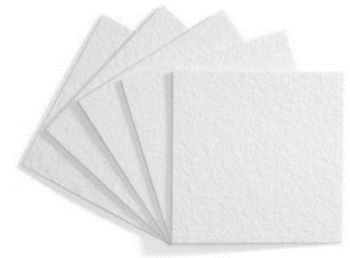
SYNTHAFIX™

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, and wet strength agents.

Formats

All standard sizes and tailored formats are available.

Product Range

Grade	Retention rate [µm]	Water value ⁽¹⁾ [L/m ² ×min]	Thickness [mm]	Ash content (%)	Filtration type
SY 30	5.0 – 12.0	421.0 – 758.0	3.2 – 3.6	34.0 – 40.0	Clarifying
SY 50	3.0 – 6.0	225.0 – 393.0	3.2 – 3.6	36.0 – 42.0	Clarifying
SY 100	0.6 – 1.5	140.0 – 253.0	3.2 – 3.6	33.0 – 39.0	Fine
SY 120	0.4 – 0.7	66.0 – 86.0	3.6 – 3.9	36.0 – 42.0	Sterile

⁽¹⁾ Δp = 100 kPa, the indicated water value does not correspond to the effective flow rate

Bacterial Retention

Grade	Bacterial strain	Number of cells	LRV
SY 120	Serratia marcescens	1.0 × 10 ⁷ /cm ²	>5.5

Operating Conditions

Parameter	Recommendation
Maximum differential pressure	2.5 bar
Maximum differential pressure for sterile filtering sheets	1.2 – 1.5 bar
Rinsing volume	50.0 L/m ²
Sterilization	Water 85.0 °C / Steam 125.0 °C

Chemical Stability

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

Related Products

Series	Description
FILTRODISC™	Lenticular depth filter modules
NOVOX®	Sheet filter systems
LABTROX	Equipment for laboratory trials

Remarks

All information is based on current knowledge and does not claim to be complete. No liabilities can be derived from this information. The user is advised to perform an incoming goods control. FILTROX reserves the right to make changes in the course of technical improvements.