

PURAFIX[®] CH

HIGH-PURITY DEPTH FILTER SHEETS



Description High-purity depth filter sheets manufactured under tightly controlled conditions.

- Low levels of extractable endotoxins and ions
- Regulatory support

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

Formats All standard sizes and tailored formats are available.

Extractable Endotoxins < 0.125 EU/mL 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

Product Range

Grade	Retention rate [µm]	Water value ⁽¹⁾ [L/m ² ×min]	Thickness [mm]	Ash content [%]	Filtration type
CH 06	15.0 – 35.0	2800 – 3600	3.2 – 3.4	<1.0	Coarse
CH 09	10.0 – 30.0	1500 – 2100	3.2 – 3.4	<1.0	Coarse
CH 15	8.0 – 20.0	960 – 1240	3.7 – 3.9	19.5 – 24.0	Coarse
CH 21	6.0 – 15.0	690 – 865	4.4 – 4.6	19.5 – 24.5	Fine
CH 31	5.0 – 12.0	280 – 360	3.7 – 3.9	39.5 – 44.5	Fine
CH 41	4.0 – 9.0	240 – 300	3.7 – 3.9	29.5 – 34.5	Fine
CH 50	3.0 – 6.0	200 – 240	3.7 – 3.9	35.0 – 40.0	Fine
CH 71	1.5 – 3.0	170 – 210	3.7 – 3.9	35.5 – 40.5	Fine
CH 101	0.6 – 1.5	98 – 121	3.7 – 3.9	39.4 – 44.4	Fine
CH 110	0.5 – 0.8	69 – 81	3.7 – 3.9	46.1 – 51.1	Sterile
CH 130	0.4 – 0.6	43 – 52	3.7 – 3.9	47.5 – 52.5	Sterile
CH 140	0.2 – 0.4	26 – 35	3.7 – 3.9	47.5 – 52.5	Sterile
CH 150	0.04 – 0.2	10 – 16	3.7 – 3.9	47.5 – 52.5	Sterile

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

Bacterial Retention

Grade	Bacterial species	Number of cells	LRV
CH 110	Serratia marcescens	1.0 × 10 ⁶ /cm ²	>5.0
CH 130	Serratia marcescens	1.0 × 10 ⁸ /cm ²	>7.0
CH 140	Serratia marcescens	1.0 × 10 ⁹ /cm ²	>8.0
CH 150	Brevundimonas diminuta	1.0 × 10 ⁹ /cm ²	> 8.0

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 °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 ₂	0.1	r	n/a
NaOH	2.0	r	lr	HNO ₃	5.0	r	lr	Acetone	conc	r	r
Peracetic ac.	0.1	r	lr	H ₂ SO ₄	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

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

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

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 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.