



CLAROX® MP/W

PLEATED MEMBRANE FILTER CARTRIDGES

Description

Membrane filter cartridges for wine and beverages.

- Absolute retention rate
- Integrity testable
- Regenerable

Nominal Length

10", 20", 30" and 40".

Product Range

Type	Retention rate [µm]	Bacterial retention	Bacterial species
CLAROX® MP/W 04	0.45	$>1.0 \times 10^{10}/\text{cm}^2$	Leuconostoc oenos
CLAROX® MP/W 06	0.65	$>1.0 \times 10^{11}/\text{cm}^2$	Saccharomyces cerevisiae
CLAROX® MP/W 08	0.8	$>1.0 \times 10^{10}/\text{cm}^2$	Saccharomyces cerevisiae

Adapters

Type	Code	Description
F-Adapter	2-226	2 flanges bayonet w/ spear, Ø 56.0 mm
S-Adapter	2-222	3 flanges bayonet w/ spear, Ø 44.5 mm
Q-Adapter	2-222	w/o bayonet, w/ spear, Ø 44.5 mm
P-Adapter	2-222	w/o bayonet and w/o spear
DO-Adapter	n/a	flat gasket, double open end

Components

Description	Material of construction
Filter media	PES hydrophilic symmetric polyethersulfone
Upstream support	Polyester
Downstream support	Polyester
Internal/external core	Polypropylene
Outer cage	Polypropylene
Adapter and end caps	Polypropylene
Gaskets	Silicone, EPDM, FKM (Viton) or PTFE (Teflon)

Operating Conditions

Parameter	Recommendation
Change-out differential pressure	2.0 bar at 25 °C
Maximum differential pressure	5.0 bar at 25 °C
Maximum continuous operating temperature	65 °C
Regeneration*	<2.0% NaOH, enzymes
Thermal sanitization	Water at 80 °C
Chemical sanitization*	Peracetic acid and standard chemical agents
Maximum cumulative time of steam sterilization	40 hrs 121 °C, 30 min cycles, max Δp 0.3 bar

* Products and additives approved for cartridges

Integrity Test Data

Parameter	CLAROX® MP/W 04	CLAROX® MP/W 06	CLAROX® MP/W 08
BP value	1.3 bar	1.1 bar	0.7 bar
Diffusion flow test	1.1 bar	0.9 bar	0.5 bar
Max. diffusion flow test limits*	<20.0 mL/min (10" cartridge)	<20.0 mL/min (10" cartridge)	<20.0 mL/min (10" cartridge)
Pressure holding test	1.1 bar	0.9 bar	0.5 bar
Pressure holding test decay limits*	<115.0 mbar (30" cartridge)	<115.0 mbar (30" cartridge)	<115.0 mbar (30" cartridge)

* Indicative values depending on housing upstream volume, test duration 5 minutes

Chemical Stability

Substance	[%]		Substance	[%]		Substance	[%]	
Ammonium Hydrox.	20.0	lr	Acetone	n/a	nr	Amyl acetate	n/a	lr
Carbon Tetrachloride	n/a	lr	Acetic acid	80.0	r	Acetonitrile	n/a	lr
Dimethyl Formamide	n/a	nr	Benzene	n/a	lr	Amyl alcohol	n/a	lr
Dimethyl Sulfoxide	n/a	nr	Benzyl alcohol	n/a	nr	Butyl alcohol	n/a	r
Trichloroethane	n/a	lr	Boric acid	n/a	lr	Citric acid	10.0	r
HCl	10.0	r	Chloroform	n/a	nr	Cyclohexane	n/a	lr
HCl	conc	lr	Cotton Oil	n/a	lr	Cyclohexanone	n/a	nr
HF	10.0	lr	Diethyl ether	n/a	lr	Dioxane	n/a	nr
HF	35.0	lr	Ethanol	n/a	r	Hexane	n/a	lr
H ₂ O ₂	n/a	r	Ethyl acetate	n/a	nr	Isopropyl ether	n/a	lr
Isopropyl alcohol	n/a	r	Ethyl ether	n/a	r	Limonene	100.0	lr
Xylene	n/a	lr	Formaldehyde	30.0	r	HNO ₃	conc	nr
Methylene Chloride	n/a	nr	Glycerol	n/a	r	HNO ₃	6 M	lr
H ₃ PO ₄	25.0	lr	Methanol	n/a	r	Pentane	n/a	r
KOH	3 M	nr	n-Heptane	n/a	lr	Phenol	3.0	lr
NaOH	3 M	nr	Octyl alcohol	n/a	lr	Propyl alcohol	n/a	r
NaOH	1 M	nr	Peracetic acid	3.0	r	H ₂ SO ₄	conc	nr
Sodium Hypochlorite	5.0	r	Pyridine	n/a	nr	H ₂ SO ₄	25.0	r
Trichloroethylene	n/a	nr	THF	n/a	nr	Toluene	n/a	lr

This table is for guidance purposes only, r = resistant, lr = limited resistance, nr = not resistant

Quality Assurance

Certified to:

- ISO 9001
- ISO 12500
- ISO 8573-1

Compliant to:

- European regulation 10/2011 and its amendments, regulations 1935/2004, 1895/2005 and 2023/2006
- FDA requirements for food contact use, according to Code of Federal Regulation, title 21, paragraph 176.170
- Polypropylene meets the requirements contained in FDA 21CFR section 177.1520
- Filter media and components pass USP biological reactivity and chemical-physical test CLASS VI for plastics
- Integrity tested in the manufacturing
- Quality system to guarantee traceability of manufacturing records

Packaging and Storage

Cartridges 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 cartridges are intended for immediate use. Use within 36 months from the date of manufacture is recommended.

Disposal

The respective official regulations for disposal must be followed depending on the filtered product. Uncontaminated cartridges 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.