

## FILTER CARTRIDGES

For fine and sterile filtration



### Characteristics

CLAROX® filter cartridges represent an approved and established filtration technology for solid liquid separation.

#### CLAROX® MP

Membrane filter cartridge, for safe and economic endfiltration for water and mineral water.

#### CLAROX® MP/W

Membrane filter cartridge CLAROX® MP/W, for wine and beverage filtration (0.45 µm and 0.65 µm), contains a pleated membrane for effective and economical final filtration. The filter cartridges are used as end filters after sufficient prefiltration with depth filter sheets, lenticular cartridges resp. prefilter cartridges.

#### CLAROX® MP/B

Membrane filter cartridge CLAROX® MP/B, for final filtration of beer (0.45 µm and 0.65 µm), contains a pleated membrane for effective and economical final filtration. The filter cartridges are used as end filters after sufficient prefiltration with depth filter sheets, lenticular cartridges resp. prefilter cartridges.

#### CLAROX® PP/SL

Depth filter cartridges of pure polypropylene with graded PP depth filter layers. Efficient retention characteristics (semi-absolute) and high dirt holding capacity, outstanding back flushing facilities.

#### CLAROX® PL

Special pleated polypropylene filter cartridge (combination of a surface and depth filter) for prefiltration of beverages and for qualified particle retention. Universal usage, completely made of polypropylene. The pleated construction enlarges the effective filter area which results in higher dirt holding capacity.

#### CLAROX® GF

Glass fibre prefilter cartridge for beverage clarification. Alternatively used in areas of prefiltration, especially for filtration of rinse water for membrane endfilters. High dirt holding capacity, retention of fine particles and colloids by adsorption.




### Available grades

Standard version	Retention rate (µm)	
MP	0.2	absolute
MP / W	0.45 / 0.65	absolute
MP / B	0.45 / 0.65	absolute
PP / SL	0.5 / 1.0 / 5.0 / 20	absolute
PL	0.5 / 1.0 / 3.0 / 10 / 20	absolute
GF	0.2 / 1.0	nominal

Other types and retention rates are available



## Recommended grades and parameters

		Recommended grade	Recommended flow rate L/30" h	Max. differential pressure kPa (bar)
<b>Beer</b>				
	Fine filtration (trap filtration) for beer	CLAROX® PL 3.0 / 10 / 20	2000 – 3000	500 (5.0)
	Prefiltration for membranes	CLAROX® PP / SL 0.8	400 – 700	500 (5.0)
	Sterile filtration of beer	CLAROX® MP / B 0.45 / 0.65	900	500 (5.0)
<b>Wine</b>				
	Fine filtration of water	CLAROX® GF 0.2, CLAROX® PL 1.0 / 0.5	3000 – 5000	500 (5.0)
	Sterile filtration of wine	CLAROX® MP / W 0.45 / 0.65	700 – 1000	400 (4.0)
<b>Others</b>				
	Final filtration of distillates	CLAROX® GF 0.2	1000	500 (5.0)
	Fine filtration of mineral water	CLAROX® PL 1.0 / 0.5	2500 – 3500	500 (5.0)
	Sterile filtration of mineral water	CLAROX® MP 0.2	2500	500 (5.0)

For other applications, such as intermediates of pharmaceutical productions, biotech, cosmetics, paint, glue, solvents, herbal extracts please contact our application specialists or your local dealer.

### Logarithmic bacteria retention value (LRV)

LRV of germ removing cartridges:

Type	Test germ	LRV
	Germ reducing (reducing the no. of germs in filtrate)	
MP 0.2	Brevundimonas diminuta	1.0 X 10 <sup>7</sup>
MP/W 0.45	Leuconostoc oenos	1.0 X 10 <sup>10</sup>
MP/W 0.65	Saccharomyces cerviciae	1.0 X 10 <sup>11</sup>
MP/B 0.45	Lactobacillus Hilgardii	1.0 X 10 <sup>10</sup>
MP/B 0.65	Saccharomyces cerviciae	1.0 x 10 <sup>11</sup>

### FILTROX quality assurance

FILTROX assures the best quality control according to international standards:

- ISO 9001 (Quality management)
- ISO 14001 (Environmental management)
- HACCP

### EU safety data sheets

EU safety data sheets for all types of CLAROX Cartridges sheets can be downloaded from the FILTROX website. Hardcopies are available upon request.

### Global migration test for CLAROX® filter cartridges

CLAROX® filter cartridges meet european directives 82/711/EEC, 80/128/EEC, 92/39 EEC, 93/8 EEC, 93/9 EEC, 2002/72 EC and 2004/19 EC «Global migration test for extractables».

### Biological safety

Component materials meet the USP specifications for class VI-121° C biological tests for plastics.

### Extractable substances

CLAROX® MP/W filter cartridges meet the current USP XXV requirements.

### Disposal

Uncontaminated cartridges can be composted or disposed with the domestic waste. Contaminated cartridges must be disposed according to the contamination.

### Storage life and conditions

Cartridges should be stored in their original packaging in an odourless, dry and ventilated environment. We recommend to use the filter cartridges within 36 months after purchase.

Your FILTROX dealer:

The information contained in this pamphlet is up-to-date at the time of release. However, each end user is requested to check the suitability of their product(s) with the types of filtration mentioned in this leaflet. Technical modifications are reserved.