



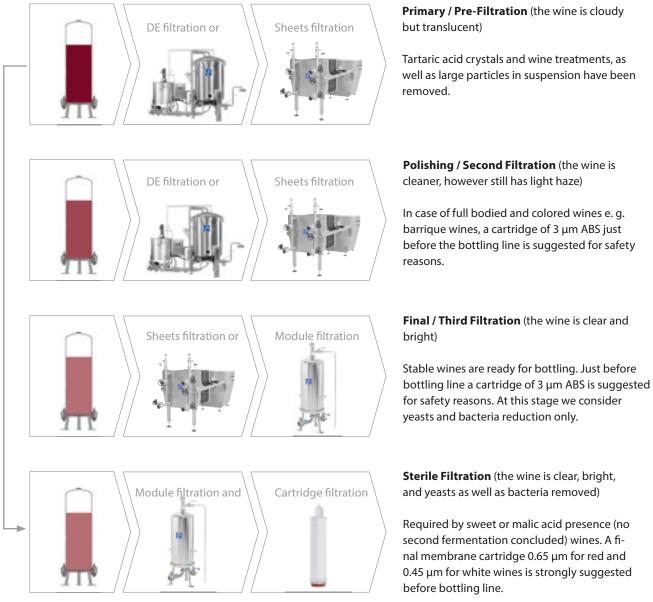
Innovative and Reliable Solutions for Wine Filtration

DEPTH FILTRATION FOR VALUABLE LIQUIDS. SINCE 1938.

Over 80 years of experience in valuable liquid filtration

Based on our long term experience and know-how in the field of depth filtration we offer with our filter media and apparatus reliable solutions for all steps of wine filtration for the quality-conscious winemakers, as well as being a supplier for many renowned wineries worldwide.

Our filtration media and apparatus are used in the following process steps for wine clarification in large and small wineries. Please note, this is a classic winemaking example. Variations might be considered depending on wine type and winemaking style.



Are you planning on expanding your production or are you thinking about a new filtration process? Do you want to improve your filtration and related costs? The FILTROX experts are at your disposal to help you to optimize your filtration process.

Filter media best practices

Rinse first the filter media with clean water at $1.5 \times$ the recommended filtration flow at > 1.0 bar back pressure. Before filtration, it is recommended to taste the rinsing water.

Avoid any pressure shocks or flow variation during filtration. To fully benefit from all depth media filtration effects, such as surface, deep filtration and adsorption, please respect the given filtration flows (see table below).

All filter media can be sterilized with hot water. Please refer to each product specification.

Following each membrane cartridge regeneration an integrity test is recommended to verify and ensure the membranes integrity.



Filter sheets and lenticulars grades*

| Filtration steps | FILTROX Sheet grade | Nominal retention rate µm | Recommended flow rate (L/m ² hr) | Max. differential pressure (bar) |
|-----------------------------------------------------------|---------------------------------|---------------------------|---------------------------------------------|----------------------------------|
| Primary filtration Pre-filtration | AF 20 | 15 – 6.0 | 500 – 700 | 2.5 |
| | AF 30, AF 31H | 12 – 5.0 | 500 – 700 | 2.5 |
| | AF 40, AF 41H | 9.0 - 4.0 | 500 – 700 | 2.5 |
| | AF 50 | 6.0 – 3.0 | 500 – 700 | 2.5 |
| Polishing Second /third filtration Final filtration | AF 70, AF 71H (barrique wines) | 3.0 – 1.5 | 500 | 1.5 |
| | AF 100, 101H (brilliant) | 1.5 – 0.6 | 400 | 1.5 |
| | AF ST 110 (germ reduction) | 0.8 – 0.5 | 350 | 1.5 |
| Final filtration Sterile filtration | AF ST 110 (germ reduction) | 0.8 – 0.5 | 350 | 1.5 |
| | AF ST 130 (red and white wines) | 0.6 – 0.4 | 350 | 1.2 |
| | AF ST 140 (white wines) | 0.4 - 0.2 | 350 | 1.2 |

*NOTE: All grades are available in lenticulars and special formats too

Most popular sheets and lenticular formats and related filtration surfaces

| Format | 40×40 sheets | 60×60 sheets | Lenticular 12" | Lenticular 16" |
|---------|-----------------------|-----------------------|--------------------|--------------------|
| Surface | 0.14 m ² | 0.33 m ² | 1.8 m ² | 3.6 m ² |

Flow rate calculation = Recommended Flow Rate \times m² of Sheets/Modules \times Number of Sheets/Modules

Filter cartridges grades

| Surface-depth cartridges | Absolute µm (efficiency %) | Membrane cartridges | Absolute µm (testable) |
|--------------------------|----------------------------|--------------------------|------------------------|
| CLAROX [®] PL | 0.2 to 30.0 (99.98%) | CLAROX [®] MP | 0.2 / 1.0 |
| CLAROX [®] PL/E | 0.5 to 10.0 (99.5 %) | CLAROX [®] MP/W | 0.45 / 0.65 |
| CLAROX [®] PL/G | 3.0 (99%) | | |



As a global market leader in depth filtra- op tion, FILTROX offers complete solutions as for filtration of high value liquids. in-

We are experts in development, manufacturing and supply of Swiss top quality products for a wide range of applications in pharmaceuticals, biotechnology, chemicals and cosmetics as well as in food and beverage. Since 1938, we have been devel-

oping and manufacturing both filter media as well as filtration equipment in-house. Based on this experience, we can offer our customers a complete range of products.

FILTROX's worldwide distribution network and comprehensive technical support will help you optimize your filtration process.

FILTROX AG

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