



**OENOLOGY**



...Our goal is to  
work together with our customers  
to reach the best results

The Quality System of Bea Technologies  
has been found to conform to the  
Quality System standard UNI EN ISO 9001:2000  
and is subjected to regularly audits by  
accreditate internationally inspection body.  
Our skilled technicians and our lab team provide  
our customer with high qualified technical assistance.



The effort in the research and the continuous testing  
in the field enable us to develop and  
to manufacture high tech filter element.



Our Sales Team is always available to solve your problems.

# MEMBRANE FINAL FILTRATION



## VINOKLARIS-VCP *PES membrane single layer*

**VINOKLARIS - VCP**, pleated PES (hydrophilic Polyethersulphone) membrane cartridges, is available with absolute filtration ratings of 0,2 – 0,45 – 0,65 – 0,8 µm. Vinoklaris VCP has been designed as sterilizing final filter for wine with interesting cost benefit and great performance in microbiological stabilization.

## VINOKLEAR-VCK *PES membrane single layer, SE-TECH technology*

**VINOKLEAR - VCK** has been designed taking advantage of **SE-TECH** technology to increase the filtering surface area. The filter media is single layer of PES membrane pleated with upstream and downstream support layers of polypropylene; end caps are made of polypropylene. The liquid absolute filtration ratings available are 0,45 – 0,65 – 0,8 – 1,2 µm.

VINOKLEAR-VCK is used as FINAL FILTER in microbiological stabilization when longer service life is required.



## VINOFLUS-VSP *double layer PES membrane*

**VINOFLUS - VSP** typically used for cold microbiological stabilization of wines and alcoholic liquids. The filter media is a double layer of hydrophilic PES (POLYETHERSULFONE) MEMBRANE with absolute filtration rating of 0,45 and 0,65 µm.

## VINOFLUS-VTK *double layer PES membrane, SE-TECH technology*

Compared to VINOFLUS – VSP filter elements, **VINOFLUS - VTK** has been developed using **SE-TECH** technology to increase the filtering area. The filter media is a double layer hydrophilic PES (POLYETHERSULFONE) MEMBRANE that provides the liquid sterilization leaving the original flavour of the wine.

VINOFLUS - VTK is one of the latest product of Bea Technologies to increase the service life in the filtration process of wine.

## VINOTEST-VST *single layer PES membrane + pre filter GF*

**VINOTEST - VST** filter cartridges, thanks to incorporated prefilter in borosilicate microfibre media, are typically used as prefilters or final filters in wine applications with a high concentration of colloidal contaminants. The upstream and downstream supports are made in polypropylene. The absolute filtration ratings are from 0,45 to 1,2 µm.

# PREFILTRATION AND FINAL FILTRATION



**VINOVER - VLV** filter cartridges have been designed to be used as a prefilter to remove colloidal particles in wine filtration. The filter media is obtained by pleating one or multiple layers of borosilicate microfiber with upstream and downstream drainages of polypropylene.

The construction materials are chemically and biologically inert according to international guidelines. The manufacturing is implemented in controlled environment to assure filter elements of high quality. The filtration rating are 0,5 and 0,65  $\mu\text{m}$ . VINOVER filter elements are prefluxed after the production to avoid any fiber releasing.

## **CLEARTRAK-KTR** *GF filter element high surface*

**CLEARTRAK - KTR** are very high efficiency filter cartridges for removing extremely fine particles such as bacteria and colloids; the filter media is obtained by pleating one or multiple layers of borosilicate microfiber with upstream and downstream drainages of polypropylene.

They are available with filtration rating in the range from 0,5 to 5  $\mu\text{m}$ . VINOVER filter element are prefluxed after the production to avoid any further fiber releasing.

## **VINOVERSE-VAR** *backwashable PP filter element*

**VINOVERSE - VAR** pleated filter cartridges have been specifically designed to retain tartrates and diatomaceous earth and are typically used as trap filters in wine bottling installations. Vinoverse VAR cartridges provide high throughput, service life and dirt holding capacity. VINOVERSE-VAR are very robust pleated filter cartridges manufactured from multiple layers of nonwoven polypropylene media and injection moulded rigid polypropylene components, designed to be easily regenerated by backwashing, chemicals or hot water. VINOVERSE-VAR manufacturing materials comply with international guidelines for food contact.



## **VINOLIFE-VPR** *depth filter element with absolute filtration rating*

**VINOLIFE - VPR** are depth prefilters with high dirt holding capacity used for clarification of wines and alcoholic infusion. Vinolife VPR cartridges are manufactured by winding layers of meltblown polypropylene media around a polypropylene internal core. All materials are chemically and biologically inert and comply with food contact international guidelines.



## **STEELPORE-SLP** *stainless steel filter element*

Manufactured in all stainless steel, **STEELPORE-SLP** filter elements incorporate depth media manufactured from sintered stainless steel fibers. These fibers create a porous media matrix optimized for particle retention down to 0,5  $\mu\text{m}$ . The depth media is pleated with upstream and downstream stainless steel wire meshes which provide extra mechanical strength and facility liquid flow to achieve excellent filtration performance.

STEELPORE-SLP seams and fittings are precision welded to be used in high pressure and high temperature applications. STEELPORE-SLP filter elements are regenerable by backwashing, steaming or chemical sanitization.



## EXTENDED SURFACE AREA SE-TECH TECHNOLOGY

SE-TECH design optimises the flow distribution between the filter media and the internal core to avoid restrictions and to exploit the full area of the filter element to generate higher throughput and increase service life.



## INTEGRITY TESTER

**BEATEST** *portable integrity tester*

BEATEST is a portable integrity tester that performs the decay pressure test. This portable and flexible friendly device is able to store up to 19 different tests by filter/ housings and up to 100 results. Beatest allows to load and print the test results when connected to any computer.

## HOUSINGS

Bea Technologies has developed multiple series of housings for sanitary applications in order to provide our customer with technical and cost effective solutions.

Stainless steel 304 and 316L materials provide the maximum corrosion resistance.

Internally and externally electro polished housings are available on request.



## BAGS *felt, mesh and high efficiency grade*

Felt bags are manufactured from polypropylene or polyester felt media. By the appropriate combination of fiber diameter, weight and thickness, the bags offer different dirt retention, grade and particle removal performances.

The mesh bags are available with polyester media or in Nylon which is stronger and washable.

The Polypropylene multi-layers bags are used in wine, beer, and chemical applications.



## MANUFACTURING FACILITY

We manufacture products in a controlled environment to assure high quality, contaminant free filter elements.

Our membrane filter elements are checked with non destructive integrity tests, dried and packed in a polypropylene bags.

The BEA Technologies facility meets or exceeds International manufacturing standards.



# bea



Bea Technologies is dedicated to provide Customers with the highest quality and most effective products and services.

## Customer Service

A highly experienced team of engineers and filtration experts is available to advise our Customers regarding the selection of the best performing and most cost effective filter for their particular application. Please contact us to arrange for an initial evaluation and on-site trial.

## Laboratory Service

Bea Technologies has a fully equipped laboratory with a broad range of test rigs and instrumentation to conduct laboratory trials to help Customers to optimise their production processes.

## Quality System

The Quality Management System implemented by Bea Technologies SpA has been certified according to:

UNI EN ISO 9001:2000  
CERT-00190-94-AQ-MIL-SINCERT

