



# e.San Filtercloth

## Product description

The e.San Filtercloth is used as a backing fabric in chamber filter presses. The product properties are very specifically tailored to beverage industry requirements and to processing of flotation and sedimentation lees and for must clarification (filtration of total volume of must).

The particular structure of the e.San Filtercloth's weave also offers the possibility of using the filter cloth as a backing fabric (like the stainless-steel sieve elements of a vessel filter) during precoat filtration, for clarifying filtration of young wine, or fine filtration of wine.

## Characteristics

The filter cloth consists of a polypropylene monofilament with a very open weave. The monofilament weave reliably retains the sediment particles and filtration aid, whilst simultaneously producing low dynamic resistance.

The e.San Filtercloth offers the following advantages due its structure and the materials used:

- Can be used without precoating of filtration aids (when processing sediment; not possible during clarifying and fine filtration)
- Very low moisture absorption capacity
- Quick and easy to clean
- Very hygienic
- Ideal backing fabric during precoat filtration for clarifying and fine filtration

## Materials

Only FDA-approved components which are safe for use with food are used in the product's manufacture:

Components	Material
Filter cloth material	Polypropylene
Edge seal (for overlapping filter cloths)	Polyurethane
Sealing cord (for non-drip filter cloths)	Silicon or TPV (thermoplastic vulcanizate) According to version

## Formats

e.San Filtercloths are available in all established filter plate formats. The filter plate must usually be measured before production. The filter plate's dimensions are measured. Established filter plate sizes are: 400; 470; 500; 630; 800; 1,000; 1,200; 1,500 mm.

## Cleaning and temperature

### a) Daily cleaning with water:

The filter cloths can be very effectively cleaned with a weak water jet. We do not recommend the use of high-pressure cleaners, as the weave structure can be changed and/or the sealant on the edge can be abraded.

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b) Enzymatic cleaning (in special cases):

Enzymatic cleaning of the filter cloths may be necessary in years with rotten harvests (smear layer on filter cloths). We recommend the following enzyme solution and procedure:

1. Set water temperature to 45 - 55 °C
2. Adjust pH value to pH 4.8- 5,2 using acid (Boerovin or Erbslöh pH-Senker)
3. Stir in enzyme:  
500 mL e.Clean® Tools (pectinase)/100 L water  
500 mL e.Clean® Membrane (glucanase and cellulase)/100 L water
4. Leave to stand for at least 12 hours
5. Clean filter cloths with water jet - if possible, with water at a temperature of 60 °C

During enzymatic cleaning the chamber filter press is usually filled with the enzyme solution, left overnight and rinsed with clean water the following day.

c) Deep cleaning using chemicals:

Cleaning with chemicals should be performed before storing the filter cloths at the end of the season. We recommend using a **1 - 2%** sodium hydroxide solution (or a filter cloth cleaning product specially developed by a detergent manufacturer). For overlapping filter cloths with a sealed edge (polyurethane), the sodium hydroxide solution temperature should not exceed **60 °C**. A **1 - 2%** hydrogen peroxide solution can also be used to improve the cleaning effect.

Guidance:

e.San Filtercloths should not be washed in a washing machine, as this can damage the fabric structure.

## Storage

e.San Filtercloths must be stored in a cool, dry, odour-free place. Direct sunshine over a prolonged period must be avoided, as there is otherwise the risk that the material (polypropylene) will become brittle and fragile.

## Quality

e.San Filtercloths are manufactured according to a certified quality management system as per DIN EN ISO 9001.

## VarioSan process

e.San Filtercloths are particularly effective in conjunction with the VarioFlux® P filtration aid. Together they achieve specific technical advantages. Detailed information about this combined method (VarioSan process) can be obtained direct from Erbslöh Geisenheim GmbH or your dealer.