



SINBRAN® FP Filter Elements for Food and Pharma applications

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SINBRAN® FP filter elements are perfectly suited for applications in the food and pharmaceutical industries. They are available in antistatic and white.

Due to the surface filtration at the e-PTFE membrane, no dust can get into the sintered body and thus contaminate it. The simple surface geometry does not create any blind spots from which it is difficult to remove the dust. Also a wet or dry cleaning is very effective because the dust must be removed only from the very smooth, non-distorted surface.

The rigid body ideally supports the ePTFE membrane and makes SINBRAN® filter elements the most robust e-PTFE membrane filter elements in the industry.

These characteristics are rounded off by qualified starting materials and GMP production and a declaration of conformity documenting the suitability.

General speaking all objects (e.g. SINBRAN® FP filter elements) that get in contact with food must fulfill two basic criteria:

On the one hand, the materials used must be suitable as a food contact material and on the other hand, they must be manufactured in accordance with a "good manufacturing practice" (GMP).

Suitable material selection

No manufacturing aids such as lubricants, oils, adhesives, potting compounds or solvents are used.

Filter elements are only made of Polyethylene, PTFE, Silicone seal and stainless steel.

For antistatic elements, carbon black is embedded in the Polyethylene.

Polyethylene as base material for the flanges, bottoms and tubes is listed as suitable in the Union list of EU 10/2011 under ref. No. 125.

The FDA lists Polyethylene in the 21CFR177.1520 as being suitable.

PTFE of the membrane is listed as suitable in the Union List of EU 10/2011 under ref. No. 281.

The FDA declares polyethylene in the 21CFR177.1550 as being suitable.

The Silicone of the seals is evaluated as suitable in the database of the BfR under the recommendation 150 "XV.Silicone".

So that there is no concern against the use. The FDA suggests Silicone in the 21CFR177.2600 as suitable.

For stainless steel it is state of the art that it is suitable as a food contact material.

SINBRAN® FP filter elements consist only of materials which have been declared harmless and save by both regulations.

Good manufacturing practice

To put it simply, EC 2023/2006 states that "good manufacturing practice" is intended to ensure that items are manufactured in accordance with the relevant quality standards for the intended application.

They must neither endanger human health nor cause an unacceptable change in the properties of the foods.

In order to achieve this, a number of requirements and measures are laid down in the regulation.

The SINBRAN® FP filter elements are manufactured and packed according to these requirements and measures.

Conformity

The conformity of the materials used is ensured by the fact that they are listed as safe in the relevant regulations.

In addition, the materials undergoing regular migration tests performed by an independent testing institute in order to ensure their suitability beyond the general suitability of the regulations.

A detailed specification is available from Sinbran GmbH.

The overall performance of the SINBRAN® FP filter elements can be certified by declarations of conformity.