

# Filter Elements



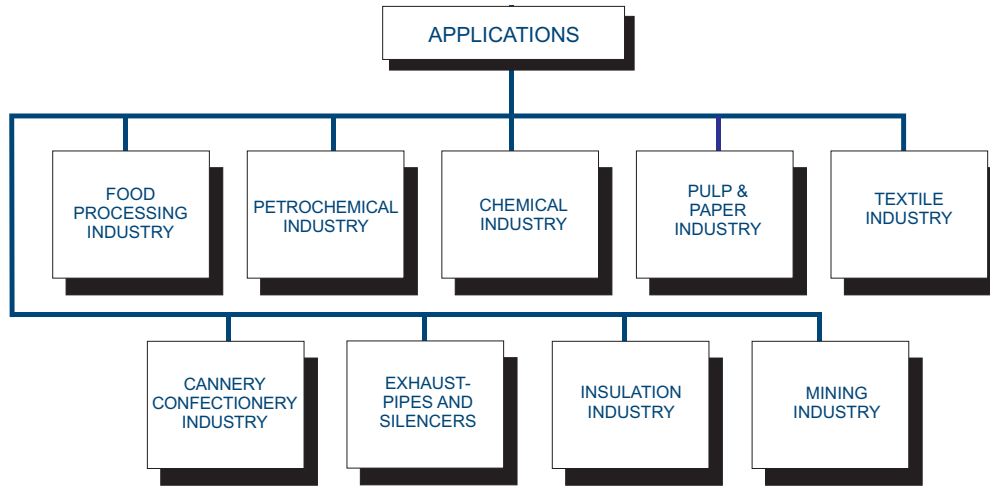
Release 5

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# Filter Elements

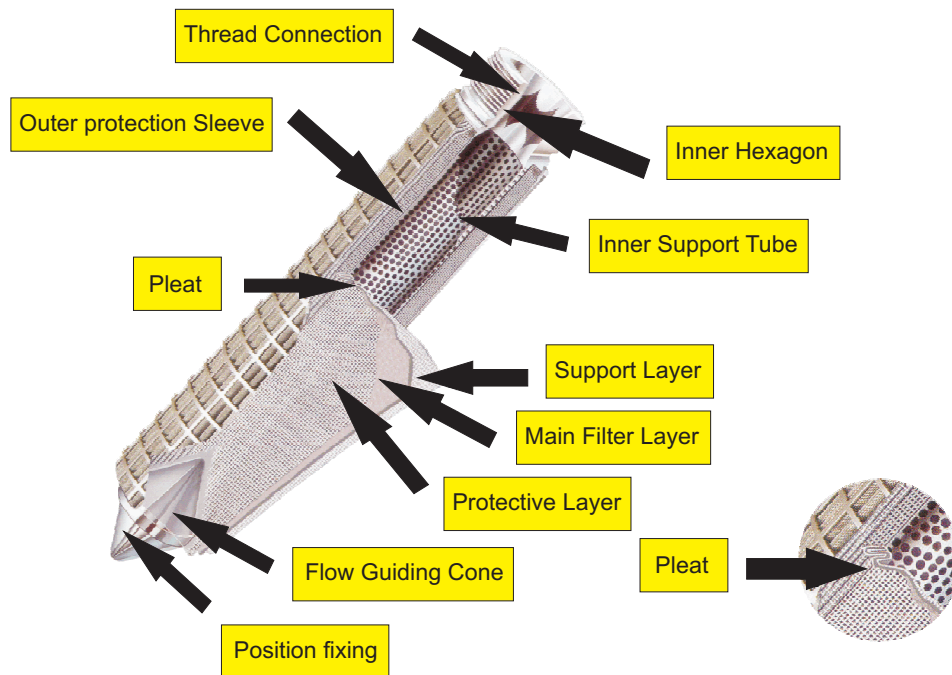
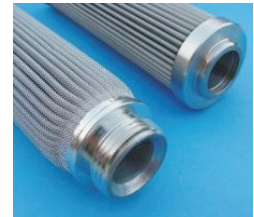
Averinox delivers several types of filter elements, filter segments & filter candles as per your process specification or mechanical design - based on woven and knitted wire mesh or gauze and support structures. An overview of applications can be found below.



## Cylindrical Filter Elements

Cylindrical filter elements are made of combinations of woven and sintered meshes and support media like perforated plate and/ or heavy woven meshes.

The filtration surface can be pleated to increase filter area thus filtration capacity. Advantages are high porosity rates and a good dirt holding capacity.



A typical example of a pleated filter element

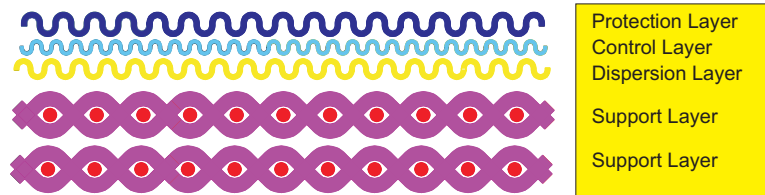
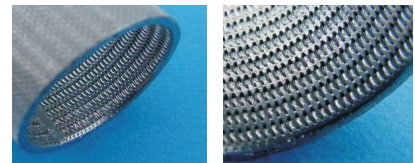
Sintered woven wire mesh and sintered web can be used for several filtration applications. The filter rating varies from 0.5 to 200 microns.

Sintered woven wire mesh consist of multi-layers of woven wire mesh laminated together by use of 'sintering'. This creates an enormous class of new materials with a very wide variety of mechanical properties.

By combining multiple layers of different mesh weavings, it is possible to design materials with specific target thickness, permeability, pore size, and mechanical strength.

Some layers are used for high precision filtration, others for protecting and reinforcing.

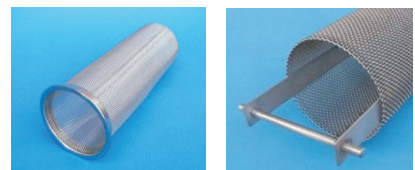
Cylindrical (pleated) filter elements are mainly used in filtration of high molecular polymers, hydraulic oil, disposal of water, pharmaceuticals, and filtration of water and gass.



Layout of 5 layers sintered woven mesh

## Basket Filters

Basket Filters can be applied in refining of crude oil and derivates, but also for food-processing, beverages, water treatment, etc. Main media of basket filters include stainless steel perforated media, woven wire mesh and sintered wire cloth. Basket filters are often based on a heavy or sometimes coarse meshes or perforated metals which support finer filtration meshes.



## Breather Plugs

Averinox delivers different types of breather plugs, which can be used for acoustic noise suppression.

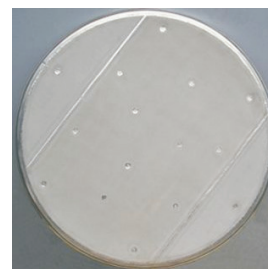
Breather plugs are based on knitted metal meshes which can be compressed in order to reduce open area.



## Disc Filters

Disc filters are ideal filter fittings for three-in-one filtration (filtering, washing and drying) in pharmaceuticals and food & chemical industry.

Disc filters work as a complete unit or in parts. These filters are mainly composed of sintered mesh sheets including support structures.

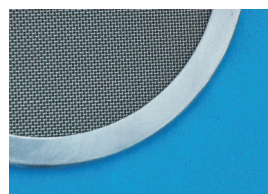


## Filter Cloth Packs

Filter cloth packs or discs are used in a number of different applications for a variety of reasons.

Applications are for example spinning of fibers (chemical industry) and pressing of cocoa (food & beverages industry), filtration of granulates for extrusion, etc. Filter media include layers of woven wire mesh which are supported by relatively heavy gauzes.

A filter cloth pack can be single or multi-layered, edged or not-edged. Different shapes are possible, including round, square, etc. Common lining materials are stainless steel and aluminium.



## Contact

Filter elements are often designed as per your request. We have pleasure in advising you by the application of all specified filters in this leaflet.

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