



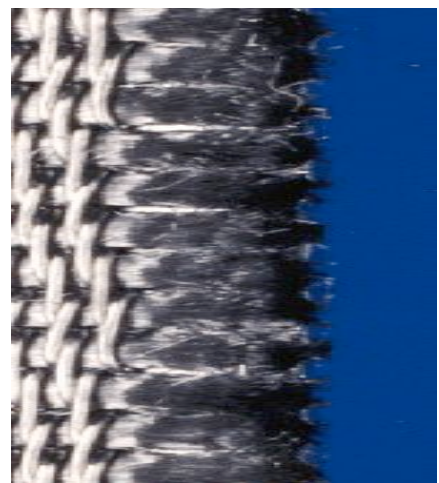
YMAX the next generation of Filtermedia

YMAX is a fiber-wire Composite made of Stainless-steel. Through simultaneous utilization of Monofilaments and Multifilaments, a combination of surface and depth-filtration becomes possible for the first time. A porosity reaches the new weaving structure and the utilization of fibers from up to 60%. On the basis of the particular weave-structure, a maximum is achieved at even pore-distribution. This innovation realized high mechanical solidity with simultaneous flexibility. Through the multilayer installation, this product has an outstanding drainage-property and an extreme pore-stability.

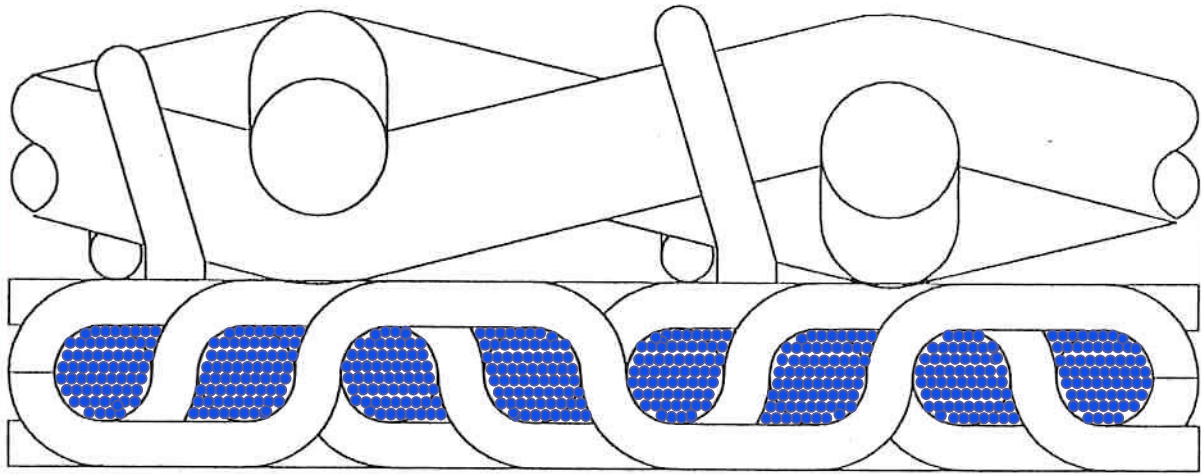
YMAX has good cleanability, resistance of temperature easy backflash possibility. With the further processing to filters you can go back on all current methods like: welding, soldering, pleating and so on.

YMAX can be produced in openings between 3-100 μm , in variable widths until 3,5 m and lengths until 20 m.

The following picture shows the structure of YMAX3 In the area of the precoat-filtration, outstanding properties has put out with this filter medium which goes along with a big potential at in-savings possibilities. The increase of the porosity up to 60% means considerably for the process with same filter measurement the filter-area increase a lot.



Weaving structure of YMAX



Weaving structure of YMAX

In cooperation with the company, Steinecker, the new medium was tested in centrifugal horizontal filters (ZHF), which have specifically proven in pre-coat filtration with beer production, to be state of the art, and also in controlled lab standard testing. On this occasion, the expectations were surpassed widely. as YMAX enables a more than a halving of the usual pre-coat-times.



HF-Filter FS 130-system Steinecker-Chr. Beer



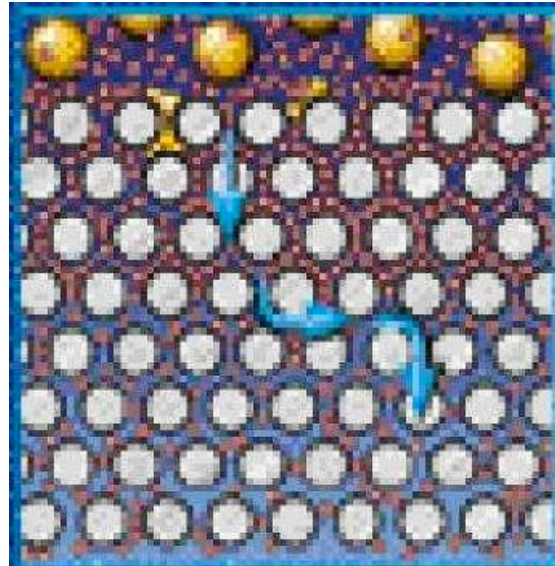
After reaches the clear-run this filter-process participates solidly and is not subject to the fluctuations, which lead with this of conventional invested filter-media to short-term misty-run-phase during the first clear-run-phase. Additionally allowed YMAX also the relinquishment of a Voranschwemmung with coarse Kieselgur (diatomaceous earth), through which an enormous in-savings-potential and the reduction of the stock keeping enable Kieselgur on only one type.

The use of YMAX achieves an until now unequalled selectivity in the Partikelrückhaltung, through which a steady and clear Unterschreiten of the limit of 10000 Partikeln/100s ml is realized at the same time. Participates on this occasion to heed that through them/her/it.

particular structure also particles is kept back the form and consistency-change during the process durchleben (GEL. The following picture shows the penetration of a deformable particle through a conventional Filtermedium (Surface-filtration,



Conventional filter media



YMAX pore structure (depth-filtration)

The installation of YMAX prevents this passage way on the basis of his/its multifilamenten installation and " catches " these particles in its pores. Also the reduced number of the particles justifies itself in it after the filtration-procedure.

Also the return-irrigation can be realized through the very good pressure-distribution this itself in the pore-structure well-founded optimally. No Randverblockungen, which can appear with hole-slit-sheet metals on the basis of the more inferior open strainer-surface and the worse pressure-distribution caused through it, occur. The new Precoat-filtermedium YMAX achieves high throughput rates at simultaneously low differential-pressure. The filter-stand-times reach a long length of life and it is achieved outstanding results in the chemical, thermal and mechanical constancy through the used material-structure.