



**KAY**·LIQUID<sup>®</sup>

## SOLID-LIQUID SEPARATION CUSTOMIZED SOLUTION FOR YOUR FILTRATION PROCESS

Every solid-liquid filtration application is a highly complex separation process. Specially designed needle felts give filtration a third dimension by creating a combination of surface and depth filtration.

Whether for filter bags, filter pockets, filter belts, drapover or barrel neck cloths; optimized filtration performance is paramount. With respect to product filtration this is apparent in a high filtration efficiency coupled with outstanding operational reliability.

### FILTER SYSTEMS

- Vacuum belt filters
- Rotary drum filters
- Filter bag system
- Filter presses
- Fully automated filter presses
- Cartridge filters

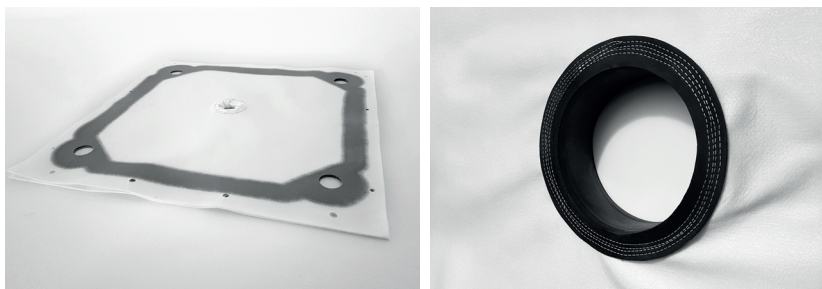
### BENEFITS

- ✓ High separation efficiency by means of three-dimensional filter media.
- ✓ Fiber structure enables large active filter surface.
- ✓ Immediate clear run.
- ✓ High throughput at low pressure drop.
- ✓ High product yield.
- ✓ High dry substance content of the filter cake.
- ✓ High chemical resistance.
- ✓ High mechanical resistance due to special scrim or fabric material.
- ✓ High service reliability due to long service life.

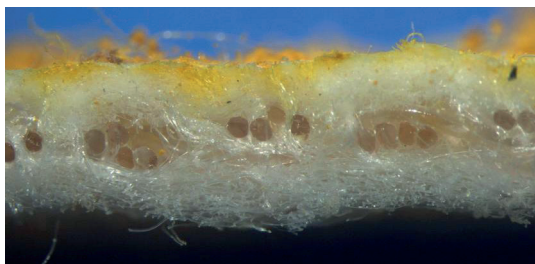
# KAY.LIQUID® – FILTER MEDIA FOR THE BEST FILTRATION RESULTS

## THE BEST COMBINATION OF SURFACE AND DEPTH FILTRATION

By comparing the two filtration concepts – needle felt and woven fabric, the first thing that captures your attention is that a needle felt has several times more filter area due to its finely pronounced pore structure and the larger pore volume, whilst at the same time providing significantly higher filtration efficiency. The fiber composite creates a drainage system that immediately creates a 100 % separation of the particles when they are first exposed to suspension. Unlike woven fabrics, there is no loss of filtrate or initial particle breakdown until the cake builds up and clear running starts immediately. Needle felts are referred to as three-dimensional filter media.



## CASE STUDIES



**TASK:** Filtration of pigment yellow, good filter cake release and high dimensional stability at best filtration performance.

**SOLUTION:** Application of specially calendared Atrotop filter belt.

**BENEFITS:** An approx. nine month service life, high throughput, good dewatering.



**TASK:** Purification of activated carbon for use in pharmaceutical products, varying particle size distributions, optimized dewatering, high mechanical burden.

**SOLUTION:** Application of an Atrotop filter belt with a special scrim.

**BENEFITS:** Service life > 12 months, high removal efficiency.


## YOUR COMPLETE SUPPLIER AND PARTNER FOR THE ENTIRE FILTRATION PROCESS

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It's ALL.KAY

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