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# FOLIA FILTERS: ACTIVE WATER FILTER PAPER

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## ABOUT SCHUT PAPIER

- Small paper mill (4.500 tons/yr)
- 400 years old this year
- Part of the Exacompta Clairefontaine group
- Tailor-made paper grades
- Orders as small as 2.000 kg
- Fully FSC/PEFC certified



# ABOUT SCHUT PAPIER

## ARTISTS' PAPER



Drawing paper, watercolour paper, oil painting paper, etc.

## COLOURED PAPER



From light to deep colours, high colour-fastness, felt markings

## GRAPHICAL PAPER



Business paper, archival paper, value paper, security paper, old Dutch

## TECHNICAL PAPER



Filtration paper, passport cover paper, paper with alternative fibers, biobased barrier paper, germination paper, active paper

SCHUTPAPIER since 1918

# FOLIA FILTERS



**= ACTIVE WATER  
FILTER PAPER**





# FOLIA FILTERS



<https://www.youtube.com/watch?v=-3rNcyoyV-I>





# HOW IT WORKS

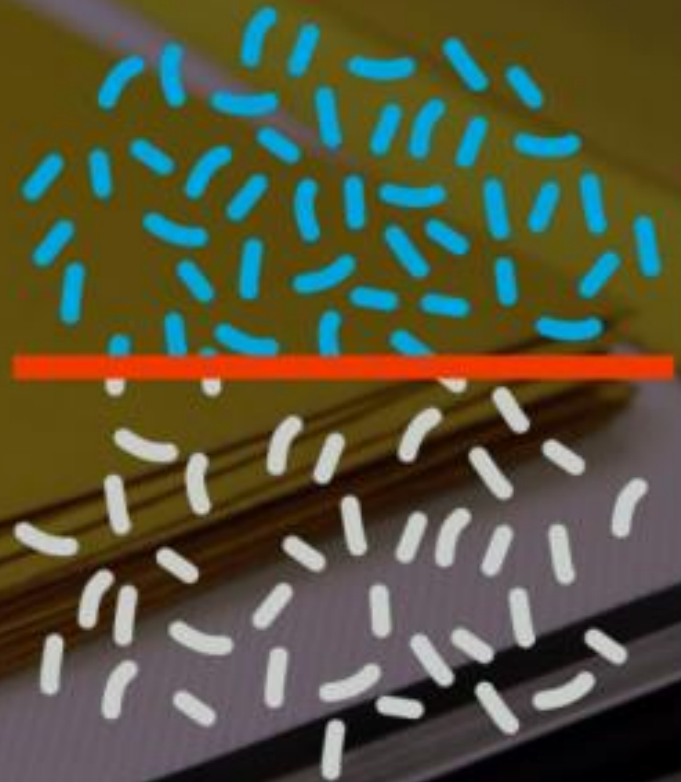
## SILVER NANOPARTICLES

*Damage the bacterium's DNA, proteins and cell membrane.*

*(Source: American Chemical Society)*

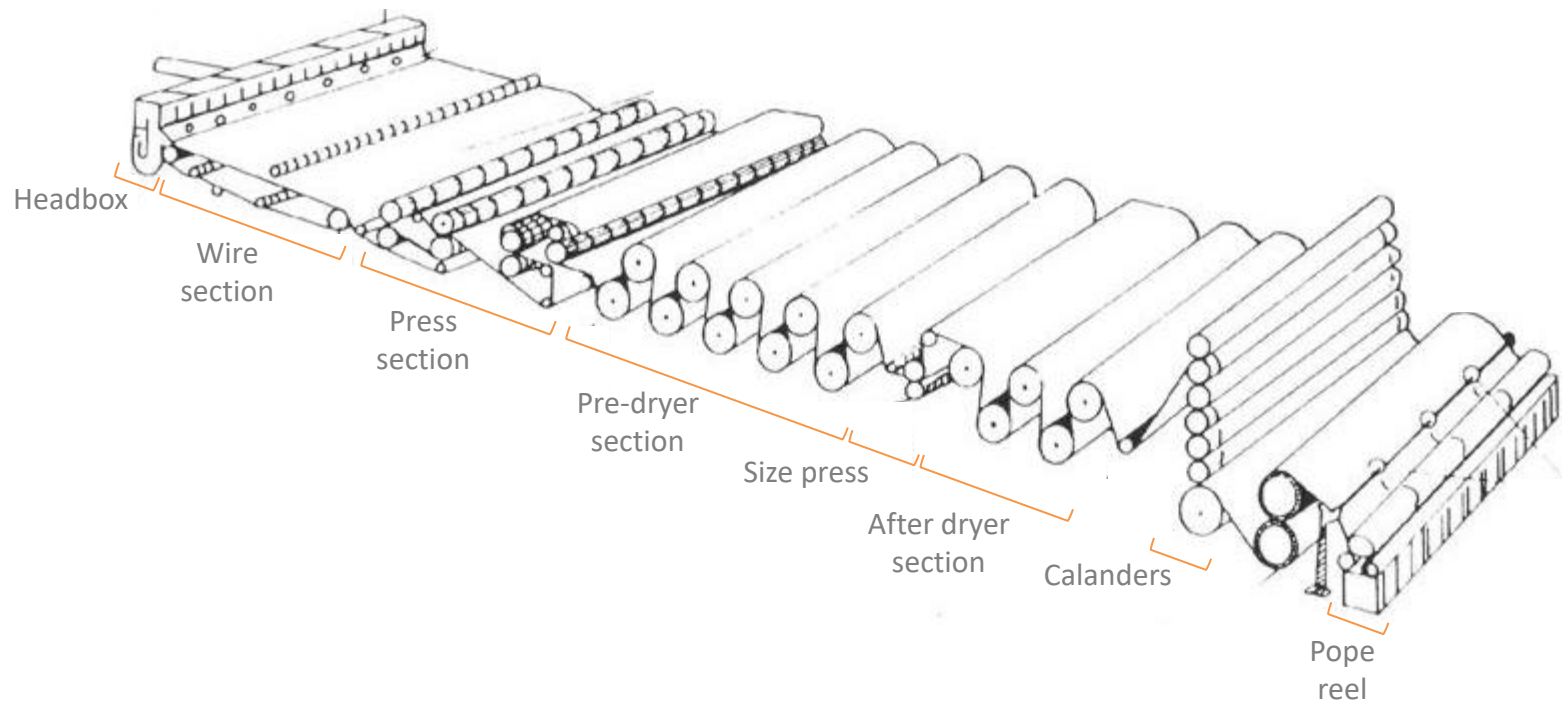
### THE TECHNOLOGY

Safe drinking water uses silver nanoparticles embedded in blotter paper to create drinkable water by deactivating pathogenic bacteria via percolation through the paper.



# PRODUCTION AT SCHUT PAPIER

October 2017





# PRODUCTION AT SCHUT PAPIER

*October 2017*



**SIZE PRESS**

Impregnating the paper



**AFTER DRYER SECTION**

Notice the color change!



**QUALITY CHECK**



**POPE REEL**

Finished paper



SCHUTPAPIER Since 1918

# FOLIA FILTERS





**THANK YOU!**

*ANY QUESTIONS?*

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## BACKUP SLIDE NUMBERS & FIGURES

- Silver nanoparticles kill 99.999% of E.Coli, Cholera and Typhoid bacteria as well as viruses
- The paper physically filters out protozoa, dirt and worms
- 1 filter = 100 L of clean water
- 1 book = 26 filters = enough water for 1 family for a year
- 1 book = \$25.00
- Biodegradable, recyclable, non-toxic