

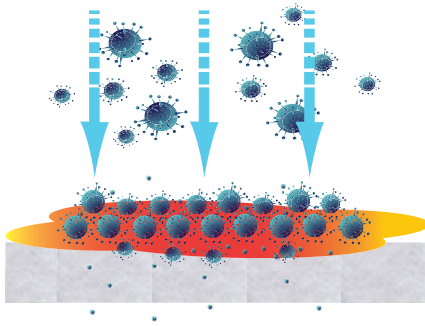
# HYGIAFELT®-Cu

Antimicrobial Reusable Filter Media for Disinfection of Air and Water

Trapping and killing of viruses and other pathogens (bacteria, spores, fungi)

Standard material

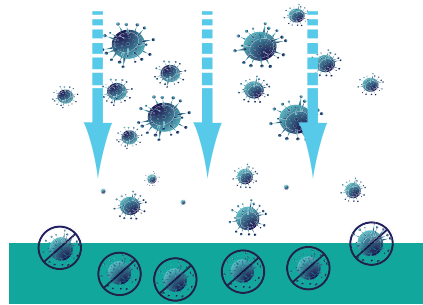
passive filtration



pathogens accumulate on the surface  
additional infectious risk

Antimicrobial material HYGIAFELT®-Cu

active filtration



pathogens are destroyed

HYGIAFELT®-Cu fibers trap and kill viruses and bacteria due to the presence of copper which is known for being an impressive natural broad spectrum antimicrobial material. Applied instead of, or in addition to, standard filtering materials, these fibers act as biocidal decontaminating barrier without any by-products. AJELIS has the technological knowhow to immobilize copper in textile fibers in a very stable and safe manner.

**Biocidal efficacy** : proved against microbial colonies such as *Staphylococcus aureus*, *Klebsiella pneumoniae* (AATCC 100 tests by EUROFINS), *Escherichia coli* (tests by CEA Fontenay-aux-Roses), antiviral efficacy validated on *Human Coronavirus HCoV-229E* ( ISO 18184 tests by BIOTECH CARE)\*.

**Single layer nonwoven fabric**  
**300-400 g/m<sup>2</sup>**

- Standard thickness: 3-4 mm
- 50 - 140 cm wide
- Custom shaped patches

**Maintenance**



- Self-decontaminating
- Machine wash without use of acid detergents
- Tumble gentle drying with reduced loading (temperature, drying time)
- Autoclaving (steam sterilization)
- Sterilization with boiling water

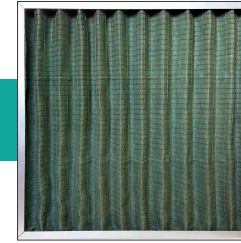
**Filtration performances of the nonwoven fabric HYGIAFELT®-Cu**

		Mesure	Standard
Air permeability in liter.m <sup>-2</sup> .s <sup>-1</sup>	At 100 Pa vacuum	686 L.m <sup>-2</sup> .s <sup>-1</sup>	> 139 L.m <sup>-2</sup> .s <sup>-1</sup>
Air permeability in liter.m <sup>-2</sup> .s <sup>-1</sup>	At 40 Pa vacuum	290 L.m <sup>-2</sup> .s <sup>-1</sup>	--
Aerosol filtration efficiency, %	1 and 3 µm particles	98,7% et 98,9 %	> 95 %

These results meet the NF EN 149 and NF EN 14683 standards (DGA Tests RP/20-1958/DGA MNRBC/2000305/NP).

\*Technical and scientific tests documents demonstrating biocidal properties of the material are available on request.

## APPLICATIONS

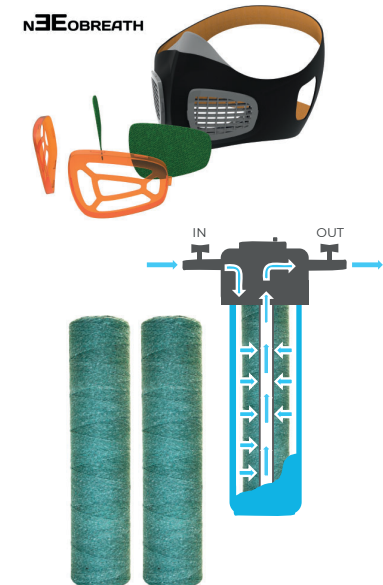
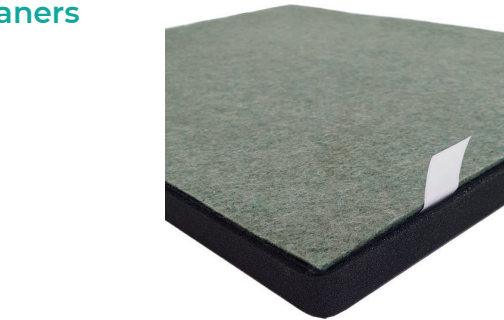
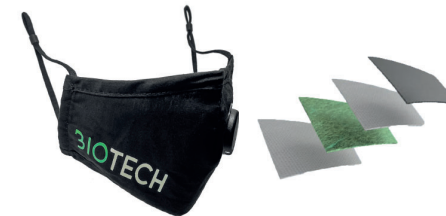


Filters for air handling units (AHU),  
for terminal fan coils units (FCU), climate panels

HYGIAFELT®-Cu media fits all common flat or pleated panel filters. It can be completed with prefiltering polypropylene layer. HYGIAFELT®-Cu is a collective sanitary solution providing a safe environment. It is easy to install on existing HVAC or AHU equipment at no additional cost without any modification to the fan system. This filter media reduces the transfer of microbial contamination during maintenance operations.

Filters for industrial vacuum cleaners  
and portable air cleaner

Filters for masks  
and half-mask respirators



Filter cartridges  
for water disinfection

