



HYGIAFELT®-Cu

UPGRADE YOUR AIR FILTRATION SYSTEM (HVAC) WITH HYGIAFELT® FILTERS FOR HIGH EFFICIENCY PATHOGEN CONTACT KILLING ACTION

? WHAT IS HYGIAFELT®-Cu?

Hygiafelt®-Cu is a new antimicrobial filtering media by Ajelis, an innovative France-based company that specializes in engineered textiles for water and air pollution control.

Ajelis has developed a method for loading fibers with copper in a stable and secure way. Copper possesses potent biocidal properties. Here, the copper-loaded “contact killing” filtering media traps and neutralizes bacteria, viruses, fungi and spores.

Hygiafelt® is nanoparticle-free and does not emit any secondary compounds. Self-decontaminating and reusable, Hygiafelt® is sustainable. The filters are machine washable and can also be sterilized in a medical autoclave to comply with cleaning requirements.

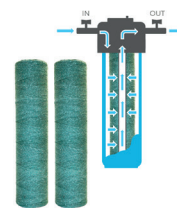
Biocidal efficacy: Hygiafelt® is proven effective against microbial colonies such as *Staphylococcus aureus*, *Klebsiella pneumoniae* (AATCC 100 tests by Eurofins), *Escherichia coli* (tests by the CEA in Fontenay-aux-Roses); antiviral efficacy was demonstrated on the human *coronavirus HCoV-229E* (ISO 18184 tests by Biotech Care).

DEMO @ CES 2022

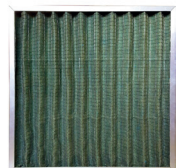
Hygiafelt® comes in wound cartridges for water and on standard or custom-made galvanized steel frames for air (air conditioning and ventilation, portable air purifiers, vacuum cleaners).

HYGIAFELT®-Cu

Média filtrant antimicrobien pour l'air et l'eau
Antimicrobial filter media for air and water



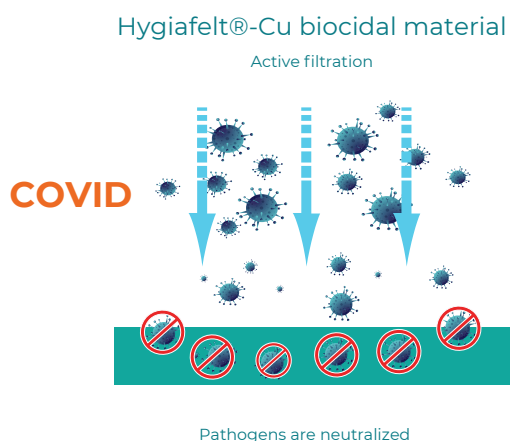
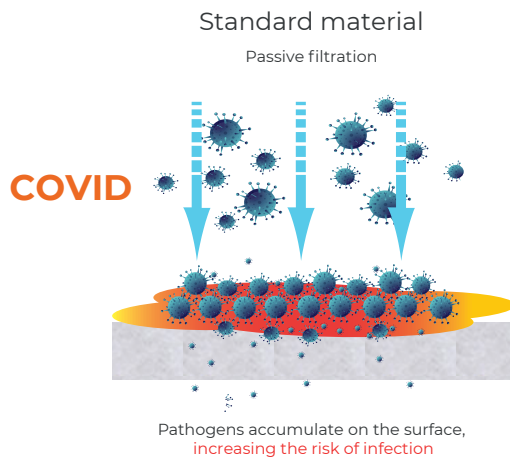
Antimicrobial Water Filter



COVID Killer Air Filter

! WHAT'S NEW?

Hygiafelt®-Cu is a hybrid solution that filters particles and kills microbes. It is ideal for upgrading fixed and portable air handling units (AHUs) and other equipment.



SCIENCE FOR A BETTER FUTURE

Hygiafelt® provides a greater degree of health security for high-rise office buildings. It is easy to install on existing HVAC and AHU equipment without costly retrofitting. Hygiafelt® offers broad-spectrum protection against biological pathogens for better air treatment.

As vaccination rates rise and masking decreases, Hygiafelt® is a new weapon in the public health arsenal building owners and operators can deploy.

INTERESTED IN THIS TECHNOLOGY?

Ekaterina Shilova
contact@ajelis.com
Tel.: +33 6 08 03 16 80

APPLICATIONS

- **Air Handling Unit (AHU) filters for:** high-rise office buildings, open office spaces, public and commercial buildings
- **Wall-mounted air conditioner filters:** hotel rooms, etc.
- **Mobile air purifier filters:** buildings not equipped with AHUs, classrooms, etc.
- **Industrial vacuum cleaner filters:** large hotels, office buildings, etc.
- **Personal protective equipment (PPE) filters:** respiratory masks
- **Water disinfection cartridges**

KEY FEATURES

- Production capacity: **500 m²/week**
- **5x** more air permeable than standard HEPA filters
- Over **14,000** masks sold or donated
- Over **250 m²** installed on tertiary and military HVAC equipment
- Material can be reused **50+** times

>> WHAT'S NEXT?

Commercialize the product and ramp up sales. Secure contracts with air filtration companies, distributors, and end customers. Target customers: occupational safety health and environment managers, facility managers, high-rise building managers, public and commercial building managers, prime contractors, insurers.



Ajelis is a CEA spinoff.