

HEALTHTECH®

The technology protecting your sleep



The memory foam with HealthTech® technology is the first one able to protect the surfaces we sleep on from bacteria and viruses.

HEALTHTECH® TECHNOLOGY IS ACTIVATED BY BODY HEAT



BODY HEAT

HEALTHTECH®
TECHNOLOGY

RAPID AND
LONG-LASTING
ANTI-BACTERIAL
AND ANTI-VIRAL ACTION

SLEEP SAFE
AND SOUND

PROTECTS FROM CONTAMINATION BY BACTERIA AND VIRUSES, INCLUDING SARS-COV-2*

ANTI-VIRAL ACTION **

BEGINS
IN JUST

15
min

CONTINUES
AFTER

30
min

REACHES
COMPLETE
EFFECT
AFTER ABOUT

60
min

IT THUS REDUCES THE RISK THAT BACTERIA AND VIRUSES WILL SPREAD ANEW
FROM THE CONTAMINATED SURFACES.

The anti-bacterial and anti-viral action of the memory foam made with HealthTech® technology was tested and shown effective by the Polymer Engineering Laboratory of the Department of Molecular Medicine of the University of Padua.*

GOMMAGOMMA

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*The foams produced using the HealthTech® technology are tested by the University of Padua for antimicrobial action on bacterial strains *Staphylococcus aureus* ATCC 6538 and *Escherichia coli* ATCC 25922, the fungus *Candida albicans* ATCC 10231 and the Herpes simplex viruses type 1 (HSV-1 strain F, ATCC VR-733), and SARS-CoV-2 (from a clinically isolated strain)

**The results of the anti-viral action were obtained by exposing the polyurethane foam made using the HealthTech® technology to SARS-CoV-2, the virus responsible for the Covid-19 pandemic.

HEALTHTECH®

**MICROBIOLOGICAL ANALYSIS ON
SUBSTRATES IN POLYURETHANE FOAM FOR
MATTRESSES AND PILLOWS MADE USING
THE NEW HEALTHTECH®* TECHNOLOGY**

CONCLUSIONS

“The products made using the **HealthTech®** technology, tested in our laboratories, offer **effective protection while sleeping** against the transmission and contamination by **viruses and bacteria** that are deposited on the surfaces of sleeping and resting areas.”

Dr. Paola Brun - University of Padua

**Made in Italy technology patented by GommaGomma
Patent Pending 102020000018640*

SCIENTIFIC REPORT

*from the Polymer Engineering Laboratory,
Department of Molecular Medicine,
University of Padua*

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HEALTHTECH®

THE NEW HEALTHTECH® TECHNOLOGY INHIBITS THE PROLIFERATION AND PERSISTENCE OF BACTERIA AND VIRUSES, SARS-COV-2

The **microbiological analysis** was carried out by the **Department of Molecular Medicine** of the University of Padua, under the supervision of **Dr. Paola Brun**.

The object of the experiments conducted was to **investigate the anti-microbial and anti-viral efficacy of various polyurethane substrates**. For this purpose, the samples tested were purposely contaminated with suspensions of microorganisms at pre-set concentrations. The samples were then incubated at 37°C, in the dark, for 8 hours, before testing for the presence of microorganisms using the culture method.

EXPERIMENTAL PROTOCOL

The samples tested were contaminated and incubated at 37°C in the dark, for 8 hours, with:

BACTERIAL STRAINS:

- *Staphylococcus aureus* ATCC 6538
- *Escherichia coli* ATCC 25922

VIRUSES:

- *Herpes simplex type 1* (HSV-1 strain F, ATCC VR-733)
- *SARS-CoV-2** (from a clinically isolated strain)

*Betacoronavirus that causes Covid-19

RESULTS

The various substrates examined **demonstrated a capacity to inhibit the growth of the tested microorganisms**.

Overall, **the sample with HealthTech® technology is the most active**:

- it **inhibits the infectiousness** of the HSV-1 and **SARS-CoV-2** viruses
- it optimally limits the growth of *Escherichia coli* bacteria
- it significantly reduces the growth of *Staphylococcus aureus* bacteria

