



THE TEXTILE MAGAZINE

ASIA'S LEADING TEXTILE INDUSTRY MAGAZINE

DAILY NEWS UPDATES FROM THE WORLD OF TEXTILES



Driving
Quality & Innovations
in Textile Spinning Machines

LMW's best in class machines, the LDF3 S and the Card Drafting System offering superior performance and consistent quality with higher precision.

Learn More →



“

"Our team of experts continue their vital work to minimize the impact of the novel coronavirus. Testing the ability of different surface treatments to reduce infectivity of the SARS-CoV-2 virus is one way that our research can help provide insights towards helping to stop the spread of COVID-19."

*- Dr Julie McAuley,
Senior Research
Officer at the Doherty
Institute*

"This time we up our game once again in antiviral protection, with an upgraded and premium appearance. HeiQ MetallIQ is designed exactly to provide that extra level of confidence. Further, it gives an edgy look, making it an improved alternative to surgical masks in many ways."

*- Carlo Centonze,
co-founder and CEO
of HeiQ Group*

*- Carlo Centonze,
co-founder and CEO
of HeiQ Group*



HEIQ

PROTECTION AGAINST
SARS-CoV-2

Reduction of infectious pathogens

97.79%

5 Minutes

99.95%

15 Minutes

99.99%

30 Minutes

Tested by
**Peter Doherty
Institute for
Infection and
Immunity.**

INFLUENZA A (H1N1)
& HUMAN CORONAVIRUS

99.95%

ISO 18184 standard

99.99%

ISO 18184 standard

Tested by
**Situ
Biosciences**

HeiQ launches MettalliQ

The mask featuring ground-breaking copper technology shown to deactivate the COVID-19 virus in five minutes



Global leader in textile and materials innovation, HeiQ, launches HeiQ MetallIQ, a futuristic-looking, high-tech surgical mask that destroys all viruses and bacteria tested, up to 100% efficacy. HeiQ MetallIQ doesn't only look metallic. The mask with a patented design actually contains an ultra-thin pure copper coating applied via a high-tech vapor deposition process, called HeiQ MetallIX, which converts a minute amount of copper into vapour, allowing it to be deposited evenly to surround each fibre.

HeiQ MetallIX is a patent-pending technology, created by HeiQ's innovation partner, Australian materials technology company, Xefco. Studies conducted by the Peter Doherty Institute for Infection and Immunity in Melbourne, Australia (Doherty Institute) showed that fabrics treated by the HeiQ MetallIX technology significantly deactivated the infectious SARS-CoV-2 virus (the virus that causes COVID-19) in as little as 5 minutes

The testing protocol simulated the real-life interaction of aerosol droplets contaminating textile products such as face masks. Each sample was exposed to a high loading of SARS-CoV-2 followed by 5, 15 and 30 minutes incubation at room temperature before the amount of remaining infectious SARS-CoV-2 viruses was measured. The fabric samples treated with HeiQ MetallIX indicated a virus reduction of over 97.79% in five minutes, 99.95% in 15 minutes and over 99.99% in 30 minutes, relative to the inoculum control. Copper is a naturally occurring element, present in the earth's crust, soil, oceans, lakes and rivers. It is also a trace element that occurs naturally in all humans, plants and animals. The antiviral, antibacterial and antifungal properties of copper have been known for centuries and have been demonstrated by many laboratory studies.

HeiQ MetallIX treated materials release copper ions which deactivate viruses and bacteria. Treated materials have also been tested to kill 100% of Staphylococcus aureus and Klebsiella pneumoniae and deactivate 99.95% of H1N1 virus and 99.9% of Human Coronavirus 229E. Made in EU, HeiQ MetallIQ is manufactured in HeiQ Medica in Spain where HeiQ also conducts R&D activities for medical devices. Throughout the development of the HeiQ MetallIX technology, Xefco worked closely with long-standing research partner the Institute for Frontier Materials (IFM) at Deakin University as part of the world-class ARC Research Hub for Future Fibres, of which HeiQ is also a member.