Understanding the problem

- COVID-19 was caused when pathogenic organisms formed as mutants over the species that threaten humans.
- Since the vaccine and medical treatments to cure the virus require a long-term test, right now the best way to prevent the infection is through stopping the spread of the virus.

Principle behind the Antiviral effect of Copper

Antimicrobial Copper acts as an inhibitor of the virus replication

How it works

- Bacteria recognizes the copper ion on the copper surface as an essential nutrient, so the bacteria absorb it into the cell.
- The absorbed copper ion penetrates the cell membrane, so the cell loses significant nutrients and water.
- Copper ion pulls the active oxygen ROS (Reactive oxygen species) through the penetrated hole of the cell membrane
- Bacteria gets serious prevention for respiratory and metabolic activity, which leads to complete extinction.

Note: The hand-infected germs (bacteria) can form a great environment for virus to self-replicate.

Antimicrobial activity of copper

- Human coronavirus can proliferate for days on the materials such as plastic, ceramic tile, glass, and stainless steel.
- However, coronavirus is deactivated in the Copper surface within 30 minutes and Copper destroys the body structure and genome of the virus.
- According to the research, including copper and copper alloy, ‘antimicrobial copper’ rapidly deactivated the coronavirus within couple minutes when the coronavirus touched the surface of it.
Characteristics of Antimicrobial film

- Semi-permanent period of use
- The antimicrobial effect is everlasting (Please change the product depending on the damage of the film)
- Harmless to human
- Harmless to the environment.

Common Applications

This film is available with or without pressure sensitive adhesive. Contact your sales representative for more information.