

tech21 ●●●™



Tech21 uses BioCote® antimicrobial technology
to provide permanent hygienic protection for phone cases.



Antimicrobial technology BioCote®

Antimicrobial technology uses active ingredients to create products that are permanently protected against microbes due to the added substances which are applied to the material.

What is an antimicrobial substance?

Antimicrobial substances actively reduce microbes such as bacteria, viruses, and fungi.

The potency of BioCote® technology

BioCote® antimicrobial technology is effective against a wide range of microbes that include:

- **bacteria** – including super-bacteria such as MRSA and E.coli,
- **mould and fungi**
- **and even viruses** – for example, the predominant influenza virus H1N1.

The role of antimicrobial substance in a product

BioCote® incorporates these active ingredients to the surface of the material during the manufacturing process. That is the reason why the **antimicrobial substance acts throughout the service life of the product** and cannot be removed.

A product from this kind of material is:

- more hygienic,
- resists degradation for a longer period of time
- and minimalizes the possibility of cross-contamination.

The potency of the active BioCote® formula

Reduces bacteria by up to 99.99 %

Even the **resistant types of bacteria** such as MRSA, VRE and CRE **cannot survive** on products protected by BioCote® formula.

It is effective against mould

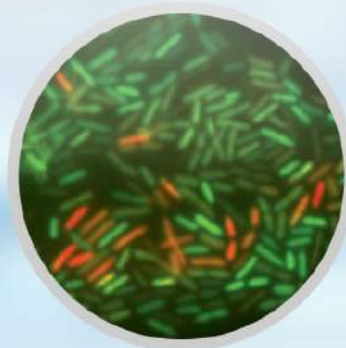
BioCote® formula creates products that **kill the ubiquitous black mould** *Aspergillus niger*.

It works against viruses

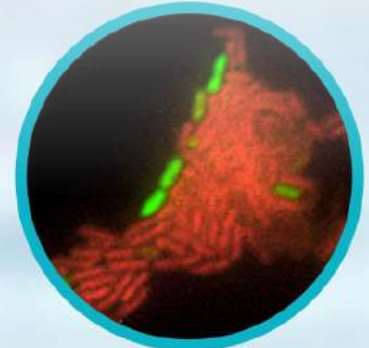
BioCote® antimicrobial technology demonstrates **inactivation of H1N1 influenza virus**.



Untreated surface
Green colour indicated live bacteria.



Treated surface
Red colour indicated dead bacteria.



Tech21 cases with BioCote®

Tech21 product line of cases with permanent protection against microbial spreading:



Evo Check



Pure Clear



Pure Shimmer



Studio Colour

How does BioCote® formula work in Tech21 cases?

The formula developed for Tech21 **starts working within 15 minutes after the initial contact with bacteria**. It irreversibly destroys up to 99.99 % of microbes in just 24 hours.

Thanks to the Tech21 case, your phone will be as clean, as it was when you unboxed it, every day.

- In **15 minutes: 86 %** of bacteria are destroyed
- In **2 hours: 99.5 %** of bacteria are destroyed
- In **4 hours: 99.99 %** of bacteria are destroyed

Effect of BioCote® antimicrobial formula on bacteria



The damage of the protein necessary for biological systems of life – it causes the failure of essential functions such as energy production.



The damage of the cell membrane disrupts the cell cohesion of the microbes, which can cause a nutrient leak and catastrophic structural failure.



Antimicrobial substances increase levels of reactive oxygen forms that cause **oxidative damage** to internal microbe systems.



Influencing the DNA causes damage to genetic material, making it impossible to replicate the DNA for bacteria to multiply.



7 reasons to choose a Tech21 case

- **Compatibility** – precise shape of the case thanks to the cooperation with Apple.
- **Impact protection** – impact protection does not weaken after multiple impacts.
- **Antimicrobial material** – permanent protection against microbes by BioCote®.
- **Composite structure** – best-in-class protection x thin and lightweight cases.
- **Patented design** – unique RIB shape and functional design.
- **Strong signal** – does not interfere with wireless charging, network connection, Wi-Fi, Bluetooth.
- **Tactile buttons** – enables smooth control with fast response.

Evo Check

Impact protection from 3.6 m height • Antimicrobial composition
• Comfortable grip • Transparent colour

Pure Clear

Impact protection from 3 m height • Antimicrobial composition • 37 % plant-based materials • Self-healing finish • Contains Bioshield • Crystal clear

Pure Shimmer

Impact protection from 3 m height • Antimicrobial composition
• Crystal clear • Scratch-resistant • UV-resistant • Rainbow effect

Studio Colour

Impact protection from 2.4 m height • Antimicrobial composition
• Extra thin profile • 32 % plant-based materials • Stylish colours