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AT400



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The new INNOVATIVE thermometer made by certified antimicrobial copper alloy AT400:

- Reduces the risk of microbial cross-contamination among users
- Provides accurate temperature measurement in 30 seconds
- The nature of antimicrobial copper reduces drastically the pathogenic microbes

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Best Applied Research
on the Antimicrobial Thermometer
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Cu⁺



Against Microbes Pathogen



6 Years Warranty



Fights Contamination



COPPER PROPERTIES

Copper is an element found free in nature, completely recyclable (100%) and aesthetically harmonized to the environment. It has improved properties in comparison to other metals, such as air tightness, water tightness, thermal and electrical conductivity and resistance to solar light. During the recent decades, scientists worldwide have been studying the antimicrobial properties of copper and its alloys, in relation to a variety of microbes that threaten public health. With microbes growing more resistant to antibiotics and the so-called 'superbugs' emerging, there is growing concern globally, about keeping patients safe.

Scientific studies have concluded that microbes remain alive and infectious on various surfaces for hours, days and even months. Extensive laboratory and clinical studies conducted worldwide have shown that a large number of bacteria, viruses and fungi cannot survive on the antimicrobial copper surfaces. The effectiveness of the copper antimicrobial activity based on scientific studies has been confirmed and approved by the US Environmental Protection Agency (E.P.A.)

Antimicrobial effectiveness - Copper kills microbes

Copper effectively kills a wide range of microbes, particularly through exposure of microbes to copper ions. Copper ions act in three ways to kill microbes:

1. Destroy the Na - K pump located in the membrane of microbes' cell.
2. Reacting to O₂ generate toxic oxygen radicals and induce oxidative stress in bacteria.
3. Destroy the genetic material of bacteria - viruses (RNA & DNA).

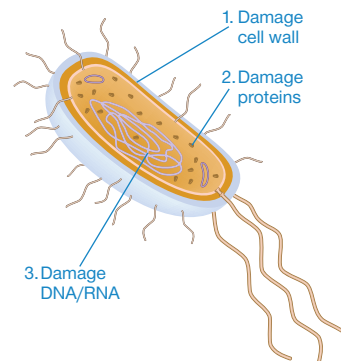
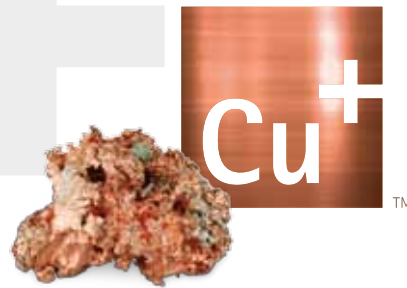


Illustration of a bacterial cell in incision



Alfacheck Innovation

KARABINIS MEDICAL S.A. has developed and presents the innovative antimicrobial thermometer **Alfacheck Antimicrobial AT400** the world's first thermometer with implementation of copper alloy Cu⁺.

Through its patented technological application, **aims to create safe thermometry conditions, not only to families but to the entire healthcare chain (doctors-nurses-patients).** The antimicrobial copper which is applied on the thermometer's tip and battery' cover kills a wide range of pathogenic microbes, drastically reducing microbial flora on the coated parts and causes significant pathogenic microbes reduction at the rest body of the thermometer.

The result of its continuous and ongoing antimicrobial action is the decrease of pathogenic microbes spreading, providing high safety and protection to the user.

Against Microbes Pathogen	Fights Contamination	Protect your Family
		«for a lifetime, yours»

Technical Specifications

- 30 seconds measurement
- Fever alarm
- Memory of the last measurement
- 6 years warranty



Alfacheck Registrations

- The thermometer is certified from the notified body National Evaluation Center of Quality & Technology in Health and holds the CE0653 mark.
- The thermometer is registered by the "Hellenic Copper Development Institute" (HCDI) for the use of the International trade mark Cu⁺ due to the antimicrobial action of the containing copper alloy.
- The copper alloy used is included in the certified list of antimicrobial copper alloys of the US Environmental Protection Agency.
- The thermometer is registered with the Patent OBI (Industrial Property Organization) No. 1007847 titled "Digital Thermometer of Antimicrobial Copper".
- International Application with No. PCT/GR2012/000047 for the assignment and international patent published by the World Intellectual Property Organization (WIPO) with number WO/2013/06847.

Participation in Congresses with Posters

The scientific project "Antimicrobial Thermometer" participated and presented with posters in several scientific congresses all over the world, with great acceptance and recognition from the scientific community:

Title: "Digital Antimicrobial Thermometer for auxiliary use: "A new device of body temperature measurement, that contributes in the reduction of microbes spreading among patients"

Congress: Excellence in Pediatrics 2013 (EIP 2013) 4-7 Dec. 2013,

Presentation Date: December 6, 2013

Country: Qatar

City: Doha

Congress: 14th World Sterilization Congress & 8th National Sterilization Disinfection Congress of Turkey

Presentation Date: November 6-9, 2013

Country: Turkey

City: Antalya

Congress: 11th Annual Critical Care Symposium, Manchester

Presentation Date: April 24-25, 2014

Country: England

City: Manchester

Congress: 32nd Annual Meeting of the European Society for Pediatric Infectious Diseases

Presentation Date: May 6-10, 2014

Country: Ireland

City: Dublin

Congress: 70th Congress of Orthopedic Surgery & Traumatology

Presentation Date: October 3, 2014

Country: Greece

City: Athens, Divani Caravel Hotel.

Unpublished Clinical Study: National & Kapodistrian University of Athens «Digital Antimicrobial Thermometer for auxiliary use: "A new device of body temperature measurement, that contributes in the reduction of microbes spreading among patients"; Efstathiou P.Kouskouni E. Manolidou Z. Tseroni M. Karageorgou K. Papanikolaou S. Efstathiou A. Logothetis E.