



Copper's antibacterial qualities - for good health

We aim to explore new uses for activated copper and to employ its antimicrobial properties. Denmark Ingenieria introduces several initiatives to encourage the use of this unique metal in household spaces, and for its incorporation into everyday objects, with the view to improve peoples' health and wellbeing.

In 2008, the United States Environmental Protection Agency acknowledged copper as a metal with unique antibacterial properties and approved studies to explore how it can be incorporated into 270 alloys with anti-pathogenic activity against microorganisms such as fungi, bacteria and viruses. It has been estimated that the use of copper for such hygiene purposes – such as private and public welfare initiatives, transportation, food handling, infrastructure for public areas, and holding units for agriculture – amount to at least half a million tons of the world's annual demand for copper.

In this regard and looking to encouraging the use of copper to improve global health and wellbeing, Denmark Ingenieria – through its commercial brand CuWorld – have begun the pioneering commercialization of products containing copper to be included in polymers and textiles for use in the intensive care wards of public hospitals, where patients are most at risk from myriad possible infections. The impregnation of polyester or cotton with copper threads gives it a significant antimicrobial effect, protecting against cross-contagion of bacteria, fungi and viruses.

Accordingly, copper-laced fabrics are very versatile, and can be used, for example, to provide military and police forces with garments which are resistant to contamination, e.g. bandages, liners for sleeping bags, insoles for shoes and boots, bed sheets and covers, vehicle interiors, undershirts, underwear and pajamas.

In addition to copper's unique anti-pathogenic properties, copper has also been shown to restore damaged skin and to enhance the cicatrization of wounds, which would be especially important for certain groups of people, such as diabetics. Furthermore, for women who suffer from cystitis, copper-containing cotton garments can be made to fight bacterial infection. And for those who have to handle food, there are face masks and hair nets which are made from a combination of cotton and copper. These products trap and kill bacteria, thus protecting food from contamination. As can be seen, the wonderful qualities of copper are not solely limited to its ability to conduct electricity, but also its unique properties which kills pathogens, and protect and enhance the condition of the skin. One mechanism of action by which copper beautifies the skin is by stimulating the organization of collagen and elastin - and these are the two most important proteins for the structural integrity of the skin.



CuWorld



In summary, coppers qualities are:

Has powerful antibacterial effects, and also fights fungal and viral infection.

Contributes to the formation of red blood cells and blood vessels, and is a crucial element in the functioning of the immune system, nervous system and for bone strength. It is needed in other systems of the body, being an essential trace element for life.

Since copper is needed by the body's enzymes to produce hemoglobin, accordingly, copper protects against anemia.

It is a revolutionary new beauty ally, since it has been confirmed through scientific study to lessen wrinkles and blemishes (including sun spots), and copper can also be an aid in treating acne and cases of dermatitis. Wearing garments containing copper has been shown not only to improve health and wellbeing but also to enhance the appearance and functioning of the skin.

It enhances the healing of wounds, i.e. cicatrization, partly due to its antimicrobial effects.

Use in other garments, such as bed sheets, can aid in a plethora of skin conditions and infections, and all while you sleep!





*Your world
in copper*

BENEFITS OF COPPER FIBER:

- 
 Comfortable
and soft
- 
 Eliminate
odor
- 
 Permanent
protection
- 
 Natural
and safe
- 
 Healthy skin
complexion

*Made
in Chile*