CORAZZI®

CuBright™

the great power of copper

The Copper

History and Properties

Copper is a metal that has been used by mankind since prehistoric times and its alloys, bronze and brass, were largely used whenever a combination of hardness and durability was required. Greeks and Romans employed it to make weapons, tools, decorations as well as home building.

Thanks to its **properties**, it is even nowadays widely used in metallurgy, pipes, power lines, heat exchangers and instrumental equipments, just to name a few. Copper can be found in deposits located all over the world from where it is extracted and subsequently worked.

Copper is fundamental for its properties: **mechanical** (hardness, shape and ductility), **physical** (it owns the best electrical and thermal conductivity rating after silver and it is non-magnetic) as well as **chemical** (it has a positive electrochemical potential).
Moreover, copper is the world's most effective naturally occurring **antibacterial** material.

Antibacterial power

Antibacterial MICROKILL® Protection

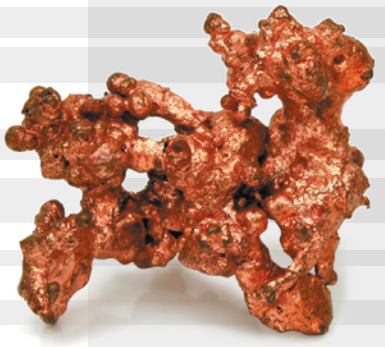
According to strict tests conducted in compliance with the protocols approved by the **US Environmental Protection Agency (EPA)**, copper has been recorded as anti-microbial product thanks to its effect on a broad range of bacteria, viruses and fungi.

Scientific research has demonstrated that both copper and its alloys deliver a continuous and ongoing antibacterial action killing until 99,9% of the bacteria within 2 hours of contact.

The R & D activity in Corazzi has allowed the development of the innovative fibre CuBright™ containing microparticles of copper that, acting as a natural antibacterial, creates an effective barrier against germs and viruses proliferation, without adding synthetic chemical substances. The antimicrobial action goes on even after multiple uses, repeated contaminations and in presence of dampness.

To deepen this topic or to acquire further details we invite you to surf the following websites:
www.copperalliance.org
www.antimicrobialcopper.com

Antibacterial effectiveness of **Cu**Bright™



The antibacterial effectiveness of the fibre containing copper powder has been proved throughout a test conducted in a microbiology laboratory according to international standard parameters.

Antibacterial effects

UNI EN ISO 20645:2005 test method

TEST REPORT 14RA06654

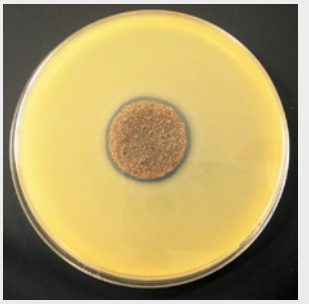
NAME OF MICROORGANISM	INHIBITION ZONE	GROWTH	ASSESSMENT
Staphylococcus aureus (ATCC 6538)	3 mm	NONE	GOOD effect
Escherichia coli (ATCC 11229)	1 mm	NONE	GOOD effect

The results prove that the pathogens don't survive on copper surfaces, thus reducing the risk of propagation through contact.

The natural copper oxidation doesn't affect its effectiveness.

We invite you to get acquainted with the gained result

UNI EN ISO 20645:2005 test



CuBright™

Natural antibacterial protection without using synthetic chemical products.

CuBright™ Technical Data Sheet

GENERAL CHARACTERISTICS AND COMPOSITION

		Test method
Mass per unit area (g/m²)	900 +/- 5%	EN 29073-1
Thickness (mm)	8 +/- 1	EN 29073-2
Fibre	polyester	
Resin	vinylacrylic and ureic	
Abrasive grain	minerals	
Pigments	organic, atoxic	
Use	domestic and professional cleaning	
Special parts	microparticles of copper	
Colour	Copper	
Configuration	Available in rolls, wheels, sheets and pads. Customizable size upon request.	

TYPICAL PERFORMANCES

		Test method
Abrasivity (mg/1000 cycles)	250 minimum	COR 1
Tensile strength (N)	150 minimum	EN 29073-3
Abrasion resistance – dry	500 minimum cycles	COR 2

CuBright™ is treated with Silver Copper Zeolite active principle

Slight changes in the appearance may occur due to the natural oxidation of the copper particles contained in the product.

We invite you to go through the complete range of our fibres suitable for any sort of use.

eco friendly

CuBright™

Natural antibacterial protection without using synthetic chemical products.

CORAZZI

Italy

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