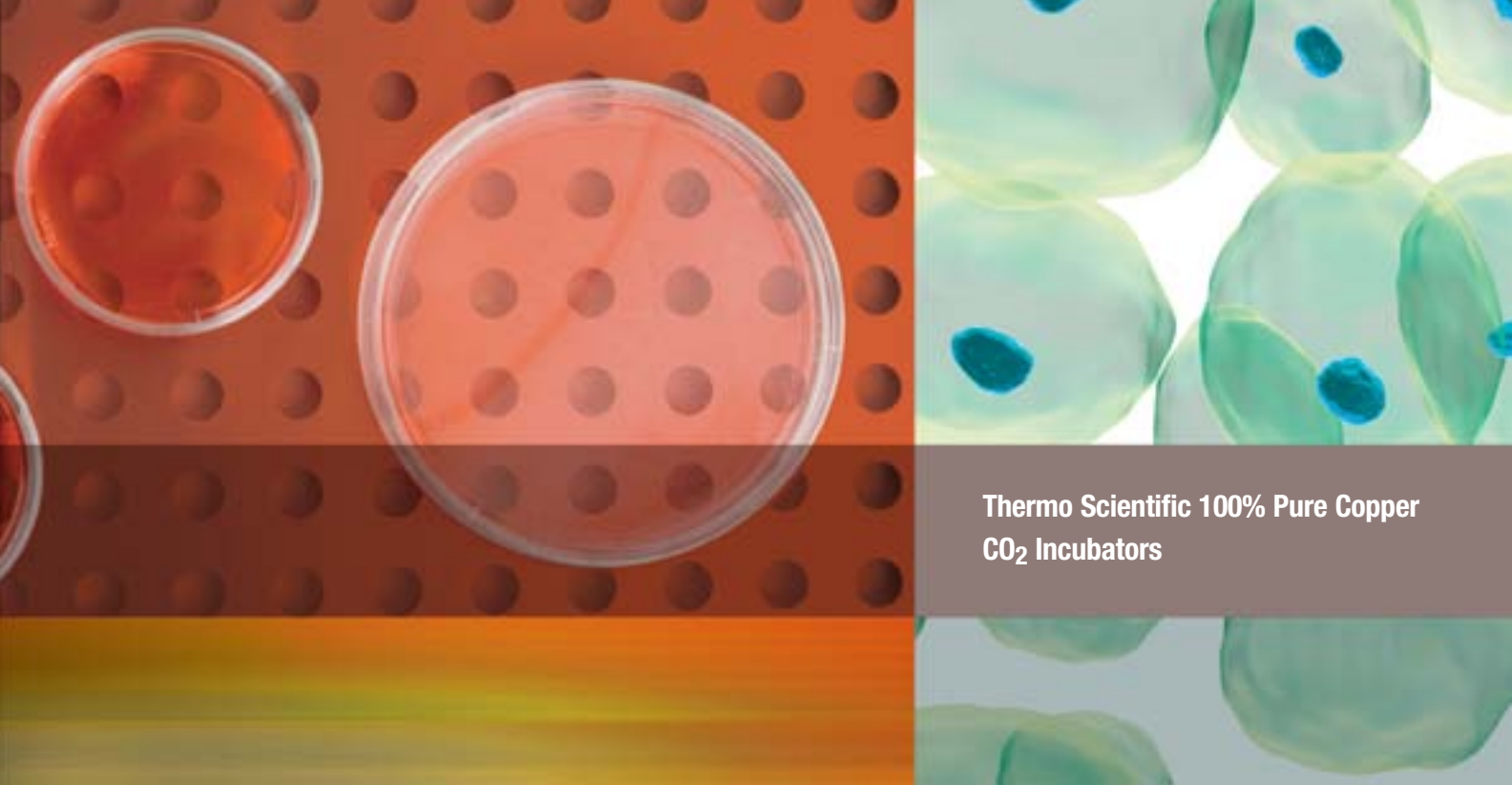




Thermo Scientific 100% Pure Copper
CO₂ Incubators

5 reasons

why your next CO₂ incubator
should be 100% pure copper

Thermo
SCIENTIFIC



“We like the Heracell copper incubator because we just don’t experience any problems, from entry level to post-docs with 20-30 papers, none of our team has any contamination problems at all. It’s just so easy.”

**— Lab Manager with 11 years experience with
Thermo Scientific Heracell copper CO₂ incubators**



Thermo Scientific Heracell 150i shown equipped with exclusive 100% pure copper interior

Protect your valuable cultures with 100% pure copper

Recognizing copper's natural bactericidal and fungicidal properties, more cell culture professionals are choosing Thermo Scientific incubators with 100% pure copper interiors.

Learn how copper can maximize your productivity and minimize the threat of contamination, surrounding your cells with an environment you can trust.

For additional information visit
www.thermoscientific.com/purecopperincubators



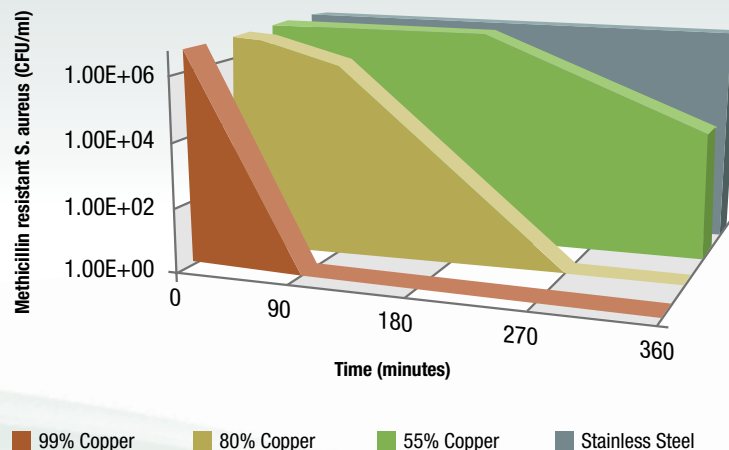
1 100% pure antimicrobial copper is proven effective against contamination

The antimicrobial capabilities of 100% pure copper eliminate microbial contaminants quickly and effectively.

Research measuring the viability of methicillin resistant *Staphylococcus aureus* on various copper alloys and stainless steel (chart at right) demonstrates that nothing matches the contamination fighting efficiency of pure copper. Similar results have been documented against typical incubator contaminants.

Low copper content alloys and copper plated stainless steel are less effective. Thermo Scientific CO₂ incubators featuring 100% pure copper offer the best solution for prevention of surface contamination.

Reduced Copper Content Results In Reduced Antimicrobial Effectiveness



Adapted from Michels HT, Wilks SA, Nocy JO and Keevil CW. Copper alloys for human infection disease control. Materials Science and Teaching Conference, 2005.

2 Easy to maintain

No special handling is required for copper, and maintenance is minimal.

There is no need to risk exposure of cultures or personnel to toxic chemical disinfectants or UV light, which becomes less effective as a decontamination source over time.

3 Always working

The antimicrobial properties of 100% pure copper provide continuous protection against contamination on contact, all day every day.

“With copper, you have no contamination. The lab next door has contamination in their stainless steel incubator, but we have not had any. Before we had to clean the incubator all the time. Copper is saving us time and money.”

— Principal Investigator working with stem cells



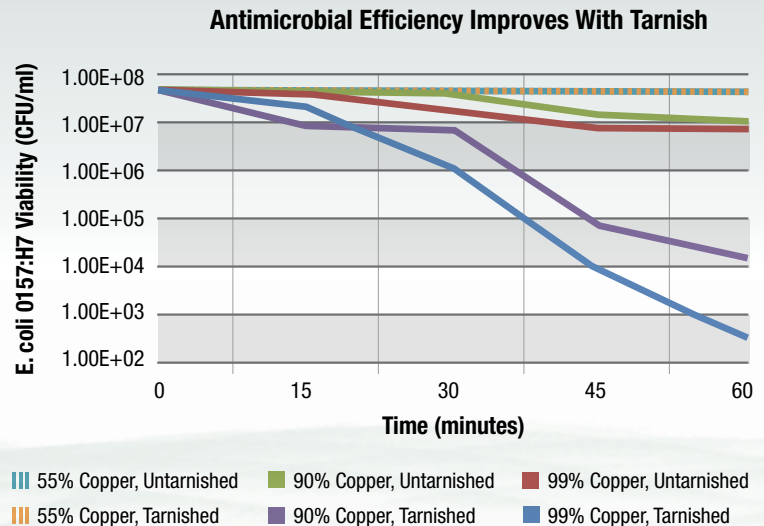
4 Improves with time

The antimicrobial efficiency of 100% pure copper interiors improves as the surface oxidizes over time, visible as tarnishing.

The study at right demonstrates that as copper ages the tarnishing effect provides an increased amount of cupric ions to attack contaminating microorganisms.

Tarnished and untarnished 1 cm² copper and copper alloy samples were tested for their antimicrobial activity. *E.coli* bacteria were applied to each coupon and air dried. At several time points, the bacteria were collected and the number of viable organisms determined.

Only tarnished, high copper content carriers exhibited increased antimicrobial performance with age. Untarnished alloys with limited copper had almost no effect.



Adapted from Michels HT, Wilks SA, Nocy JO and Keevil CW. Copper alloys for human infection disease control. Materials Science and Teaching Conference, 2005.

5 Safe for cells

Because copper ions do not become airborne, they pose no threat to precious cells incubated in culture vessels on copper shelves.

100% pure copper surfaces protect the entire incubator chamber, including walls, shelves and humidity water reservoir, to provide you peace of mind that your cells are safe from contamination introduced by routine door openings and sample access.

“Everything we do is cell based. The main thing I’ve noticed is my ability to maintain my cells. There is just no comparison since we got the copper. I’ve had stainless steel incubators before but the comfort level you can have with the copper is simply amazing.”

– Laboratory Manager with 14 years experience working with all types of mammalian cell lines, including adherent, suspension, hybridomas and transformed stem cells



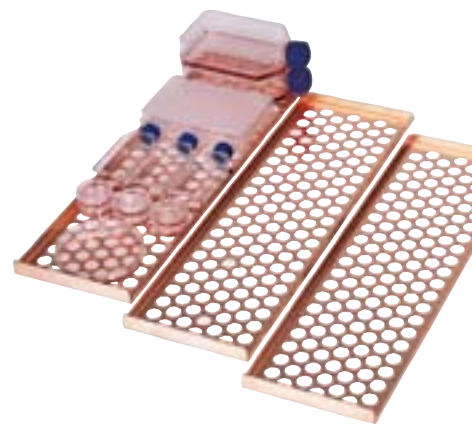
Discover why more laboratories rely upon Thermo Scientific CO₂ incubators than any other brand.

Visit us online for more information on why your next CO₂ incubator should be 100% pure copper.

www.thermoscientific.com/purecopperincubators



Learn more by scanning the code with your SmartPhone



© 2011 Thermo Fisher Scientific Inc. All other trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.

North America: USA/Canada +1 866 984 3766 (866-9-THERMO)

www.thermoscientific.com

Europe: Austria +43 1 801 40 0, Belgium +32 53 73 42 41, France +33 2 2803 2180, Germany national toll free 08001-536 376, Germany international +49 6184 90 6940, Italy +39 02 95059 448, Netherlands +31 76 579 55 55, Nordic/Baltic/CIS countries +358 9 329 10200, Russia +7 812 703 42 15, Spain/Portugal +34 93 223 09 18, Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203

Asia: Australia +61 39757 4300, China +86 21 6865 4588 or +86 10 8419 3588, India toll free 1800 22 8374, India +91 22 6716 2200, Japan +81 45 453 9220, New Zealand +64 9 980 6700, Other Asian countries +852 2885 4613 **Countries not listed:** +49 6184 90 6940

PFC02COPPER5 0811

Thermo
SCIENTIFIC

Part of Thermo Fisher Scientific