



# Antimicrobial Copper Film Sticker

Certified by ICA  
Registered with EPA

***Protection Against  
Secondary Contamination***





## What is 'Antimicrobial Copper' film sticker?

Antimicrobial Copper is the only touch surface material registered with the US Environmental Protection Agency(EPA), which kills more than 99.9% of bacteria that cause infections in Healthcare-Associated Infection within 2 hours.

## Why do we need 'Antimicrobial Copper' film sticker?

Ensure preventive measure of secondary contamination of virus which caused by hand touch infections.

## Is it safe for the skin?

Yes, it is absolutely safe and certified by various institutes.

## How Does Copper Kill Bacteria?



**1** Copper ions on the surface are recognized as an essential nutrient and enter the cell.



**2** A lethal dose of copper ions interferes with normal cell functions and membrane integrity.



**3** Copper ions impede cell respiration/metabolism, sometimes causing DNA damage.



# 'Antimicrobial Copper' Film Sticker



## **Environment Friendly**

Manufactured with only eco-friendly material.



## **99.9% Antimicrobial Effect**

Continually controls and eradicates bacteria.



## **Scientifically Proven**

Certified by ICA and registered with EPA.



## **Tangible Protection**

More security with visible protective layer.



## **Screen Touch Friendly**

Used in various touch screen devices.



## **Flexible Application**

Used in various places with desired size.



## **Cost-Effective**

Protects your love one with good value.



## **Chemical Free**

No harsh chemicals, safe to be use.



**99.9%**  
**Protection**

Stay safe with our  
**'Antimicrobial Copper'** film  
anywhere anytime.



Entrances



Electronic Devices



Lift Buttons



Lift Buttons



Doorknobs



Handles



**99.9%  
Protection**

**Stay safe with our  
'Antimicrobial Copper' film  
anywhere anytime.**



**Handles**



**Handles**



**Tabletops**



**Touch Screen Devices**



**Gym Machine Handles**



**Vending Machines**

# Test Report



## TEST REPORT

(This Report is issued subject to the terms & conditions set out below)

**Our Ref :** CE-8500114020/CHS

**Date :** 30/06/2020

**SetSCO Services Pte Ltd**  
18 Teban Gardens Crescent  
Singapore 608925  
Tel : (65) 6566 7777  
Fax: (65) 6566 7718  
www.setsco.com  
Business Reg. No. 196900259D

Page 1 of 1

**Subject :** ICP-OES analysis on sample submitted by MC Design & Solution Pte Ltd on 23/06/2020 and test commenced on 23/06/2020.

**Tested For :** **MC Design & Solution Pte Ltd**  
25 Kaki Bukit Place  
Singapore 416203  
Attn : Mr Jonathan

**Test Method :** Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)

**Sample Description :** Antimicrobial Film

**Result :**

Element	Result	
	mg/kg	wt %
Copper (Cu)	1979.3	0.20

  
CHIN HUI SENG  
SENIOR/MANAGER  
BIOLOGICAL & CHEMICAL TECHNOLOGY DIVISION

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# Test Report



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18 Teban Gardens Crescent  
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Fax: (65) 6566 7718  
www.setsco.com  
Business Reg. No. 19690269D

**Date: 30/06/2020**

**Page 1 of 1**

**Your Ref: -**

**Our Ref: FB 8500114708**

**Subject :** Antimicrobial Test of 'Antimicrobial Film' samples submitted by MC Design & Solution Pte Ltd on 19/06/2020 and testing commenced on 23/06/2020.

**Test For :** MC Design & Solution Pte Ltd  
25 Kaki Bukit Place  
Singapore 416203  
**Attention: Jonathan**

**Test Method :** JIS Z 2801: 2012

**Test Organisms :** *Escherichia coli* (ATCC 8739) & *Staphylococcus aureus* (ATCC 6538P)

**Results :**

Bacteria	Inoculum CFU/ml	$U_0$ CFU/ml	$U_t$ CFU/ml	$A_t$ CFU/ml	R
<i>E. coli</i>	$5.60 \times 10^5$ (5.75)	$2.01 \times 10^4$ (4.30)	$1.28 \times 10^4$ (4.11)	$6.25 \times 10^{-1}$ (-0.20)	4.31
<i>S. aureus</i>	$2.40 \times 10^5$ (5.38)	$1.49 \times 10^4$ (4.17)	$8.40 \times 10^3$ (3.92)	$6.25 \times 10^{-1}$ (-0.20)	4.13

### Conclusion:-

Based on the results obtained, the sample has **passed** the Antimicrobial Efficacy Test by obtaining log value **greater** than 2.0 log reductions in accordance with JIS Z 2801:2012.

### Remark:-

- $U_0$  indicate average value of bacteria immediately after inoculation on untreated test pieces.
- $U_t$  indicate average value of bacteria after inoculation on untreated test pieces after 24 hours.
- $A_t$  indicate average value of bacteria after inoculation on treated test pieces after 24 hours.
- R indicate the log value of Antibacterial Activity - "Formula:  $R = (U_t - U_0) - (A_t - U_0) = (U_t - A_t)$ "
- Value in bracket indicate the log value
- The tested results apply only to the sample received at the laboratory.

**DR. WU JI'EN**  
**MANAGER**  
**BIOLOGICAL & CHEMICAL TECHNOLOGY DIVISION**

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# Certification

Antimicrobial  
Copper



[www.antimicrobialcopper.com](http://www.antimicrobialcopper.com)

This mark is used by leading manufacturers of hospital equipment, furniture and fittings to indicate that their products contain Antimicrobial Copper, the world's most effective antimicrobial touch surface material.

Permission is granted to:

**Yoosung Transglobal Co., Ltd.**

Wonsi-Dong, Danwon-Gu, Ansan-SiGyeonggi-Do, KOREA

to use the Antimicrobial Copper brand and marks.

As the global industry representative, the International Copper Association (ICA) has established the Brand containing both Service and Certification Marks. The Antimicrobial Copper Marks ensure that ICA, and its global network of Copper Centers, address our stewardship with regard to the deployment of copper and copper alloys in the field.

Continued permission to use the brand, logo or mark will require ongoing adherence to strict usage rules, as well as the ability of the user to document that all relevant products are in fact made from recognized Antimicrobial Copper Alloys. This document should be considered in conjunction with the conditions of use.

A handwritten signature in black ink, appearing to read 'Colin May'.

Colin May  
Director – East Asia  
International Copper Association

June 19<sup>th</sup> 2012

Date

This certificate is valid for one year and is subject to renewal.





## **MC Design & Solutions**

25 Kaki Bukit Place, Singapore 416203

### **For Enquiries, please**

Call : (65) 6745 8986

Email : [sales@mcds.com.sg](mailto:sales@mcds.com.sg)

### **Operating Hours**

Mon – Fri: 9am to 6pm

Sat: 9am to 1pm

Sundays / P.H.: Closed

