

## Test Report

GZF24-0051053-03

Date: 2024-12-11

Client Name: GuangZhou Season Decoration Materials Co.,Ltd.

Client Address: No.57-9,JingHu Avenue,XinYa Street,HuaDu District,Guangzhou City,China

Sample Name: Anti-bacterial Aluminum Ceiling

Sample Batch No.: /

Production Date: /

Manufacturer: /

-----

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

SGS reference No.: NJPL2411001783S01

Date of Sample Received: 2024-12-05

Testing Period: 2024-12-05 ~ 2024-12-11

Test Method(s): Please refer to next page(s).

Test Results(s): Please refer to next page(s).



SGS Approved Signatory

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Page 1 of 4

Scan to see the report



GZF24-0051053-03

Verification:  
check.sgsnline.com.cn

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch

No.198, Kezhu Road, Sciotech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t 400-691-0488 f (86-20) 82075027 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t 400-691-0488 f (86-20) 82075027 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Test Report

GZF24-0051053-03

Date: 2024-12-11

## Sample Description:

Sample No.	SGS Sample ID	Description
2	GZF24-0051053-0002	Sheet sample

## Test Result(s):

**Test Requested:** Selected test(s) as requested by applicant:Antimicrobial activity test**Test Method:** JIS Z 2801:2010 (COR 1:2011,AMD 1:2012) Antimicrobial products - Test for antimicrobial activity and efficacy(Including modification list COR 1:2011,AMD 1:2012)

## GZF24-0051053-0002

Test organism(s)	Escherichia coli ATCC 8739
Concentration of bacteria (CFU/mL)	$4.1 \times 10^5$
Volume of test inoculum (mL)	0.4
$U_0$	4.00
$U_t$	5.61
$A_t$	-0.20
B (CFU/cm <sup>2</sup> )	$4.1 \times 10^5$
C (CFU/cm <sup>2</sup> )	<0.63
R, the value of antimicrobial activity	5.8
Antibacterial activity rate (%) <sup>*</sup>	>99.9
Comment	Pass

Test organism(s)	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (CFU/mL)	$3.6 \times 10^5$
Volume of test inoculum (mL)	0.4
$U_0$	3.93
$U_t$	5.41
$A_t$	1.45
B (CFU/cm <sup>2</sup> )	$2.6 \times 10^5$
C (CFU/cm <sup>2</sup> )	28
R, the value of antimicrobial activity	4.0
Antibacterial activity rate (%) <sup>*</sup>	>99.9
Comment	Pass

## Notes:

- 1.The control sample is plastic film without antimicrobial activity, provided by SGS laboratory.
2. $U_0$ : the average of the common logarithm of the number of viable bacteria that recovered from control sample at "0 h" contact time(CFU/cm<sup>2</sup>).
3. $U_t$ : the average of the common logarithm of the number of viable bacteria that recovered from control sample at "24 h" contact time(CFU/cm<sup>2</sup>).
4. $A_t$ : the average of the common logarithm of the number of viable bacteria that recovered from sample at "24 h" contact time(CFU/cm<sup>2</sup>).
- 5.The requirement of JIS Z 2801:2010 (COR 1:2011,AMD 1:2012) : the value of antimicrobial activity $\geq 2.0$ .
- 6.\*The calculation formula of the antibacterial activity rate is  $[(B-C)/B] \times 100\%$ ;  
B: arithmetic average of the numbers of bacteria obtained from control samples after 24 h

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch  
Page 2 of 4

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Technical Services Co., Ltd. and Food LaboratoryNo.198, Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t 400-691-0488 f (86-20) 82075027 www.sgsgroup.com.cn  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t 400-691-0488 f (86-20) 82075027 sgs.china@sgs.com

## Test Report

GZF24-0051053-03

Date: 2024-12-11

incubation(CFU/cm<sup>2</sup>);

C: arithmetic average of the numbers of bacteria obtained from samples after 24 h incubation(CFU/cm<sup>2</sup>).

7. Pre-treatment: The surface of test specimen was wiped with 70% ethanol, rinsed with sterile water and let it air-dry.

8. Unless otherwise stated, the judgement of compliance in this report is based on whether the test result is within the specified limits or specifications with no account taken of the uncertainty.

9. There are small holes at the corners of the sample.



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch  
Page 3 of 4



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Technical Services Co., Ltd. Food Laboratory

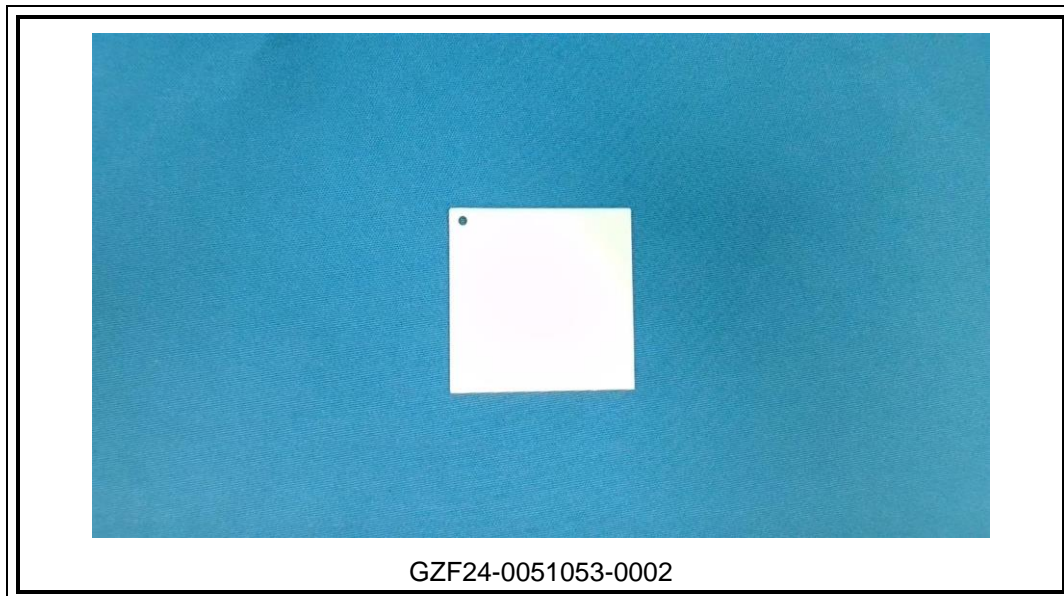
No.198, Kezhu Road, Sciotech Park, Guangzhou Economic and Technology Development District, Guangzhou, China 510663 t 400-691-0488 f (86-20) 82075027 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t 400-691-0488 f (86-20) 82075027 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

## Test Report

GZF24-0051053-03

Date: 2024-12-11

Sample Photo:



SGS authenticate the photo on original report only

### Attention:

Chinese shall prevail in this report.

Unless otherwise stated the results shown in this test report refer only to the items tested. This document cannot be used for improper publicity, without prior written approval of the SGS. The test report shall only be used for scientific research, teaching, internal quality control.

\*\*\* End\*\*\*



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch  
Page 4 of 4



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Technical Services Co., Ltd. Food Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

No.198, Kezhu Road, Sciotech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t 400-691-0488 f (86-20) 82075027 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t 400-691-0488 f (86-20) 82075027 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)