

Test Report

GZF24-0051053-01

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 Galvanized Steel 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

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Verification:
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Test Report

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Sample Description:

Sample No.	SGS Sample ID	Description
1	GZF24-0051053-0001	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)

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

Test organism(s)	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (CFU/mL)	3.6×10^5
Volume of test inoculum (mL)	0.4
U_0	3.93
U_t	5.41
A_t	-0.20
B (CFU/cm ²)	2.6×10^5
C (CFU/cm ²)	<0.63
R, the value of antimicrobial activity	5.6
Antibacterial activity rate (%) [*]	>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/cm²).
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/cm²).
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/cm²).
- 5.The requirement of JIS Z 2801:2010 (COR 1:2011,AMD 1:2012) : the value of antimicrobial activity ≥ 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

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incubation(CFU/cm²);

C: arithmetic average of the numbers of bacteria obtained from samples after 24 h incubation(CFU/cm²).

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.



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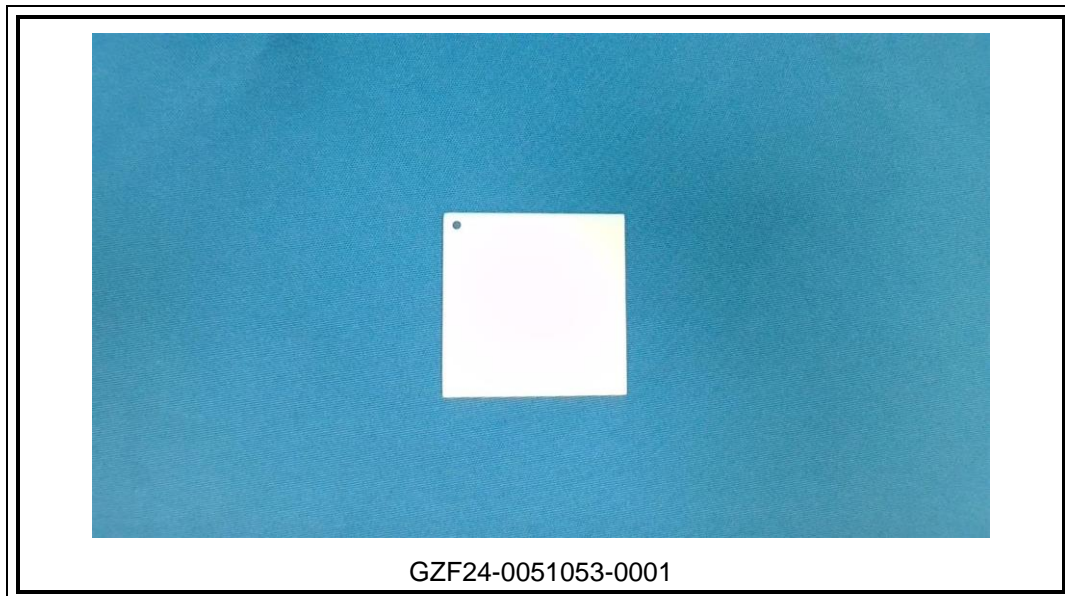
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Sample Photo:



SGS authenticate the photo on original report only

Attention:

Chinese shall prevail in this report.

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*** End***



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