

**Test Report**                      **SL52025269146401TX-1**                      **Date: August 28, 2020**  
Xiantao Zhuobo Industrial Co., Ltd  
Building One, Huanchengxi Road, Pengchang Town, Xiantao

Page 1 of 5

**THIS REPORT CANCELS AND SUPERSEDES THE TEST REPORT NO. SL52025269146401TX**  
**DATE: Jun 20, 2020                      ISSUED BY SGS (SHANGHAI)**  
**UPDATED TEST INFORMATION**

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A) Disposable medical mask (Non-sterile)

SGS Internal Ref No. : SHHL2005519723MD  
Style No. : XTBZ-1  
Sample Color : (A) blue  
Lot No./Batch No. : 20200525001

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Jun 01, 2020

Testing Period : Jun 01, 2020 - Jun 20, 2020

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center



Sara Guo (Account Executive)



Helen Xuan (Authorized Signatory)



Dongjing Liu (Authorized Signatory)



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 and such sample(s) are retained for 30 days only.

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 (Shanghai) Co., Ltd.  
Testing Center - Technical Services (Shanghai) Co., Ltd.

3<sup>rd</sup> Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233  
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666  
t (86-21) 61402666

f (86-21) 64958763  
f (86-21) 64958763

[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



Test Report

SL52025269146401TX-1

Date: August 28, 2020

Page 2 of 5

Test Result

**EN 14683:2019+AC:2019 Medical Face Masks-Requirements and Test Methods****Clause 5.2 Performance Requirement****Clause 5.2.2 Bacterial Filtration Efficiency (BFE)**

(EN 14683:2019+AC:2019 Annex B)

Sample: A

Test Side : Inside  
Test Area : Approximately 60 cm<sup>2</sup>  
Flow Rate : 28.3 L/min  
Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H.  
Dimensions of test specimen : ~173 mm x 155 mm  
Positive Control Average : 1809 CFU  
Negative Monitor Count : < 1 CFU  
Mean Particle Size : 3.0 ±0.3µm  
Test bacteria : Staphylococcus aureus ATCC 6538

Test Item	Specimen No.	Result
Bacterial Filtration Efficiency (BFE)	1	99.7%
	2	99.7%
	3	99.8%
	4	99.9%
	5	99.9%

Remark:

- 1) Performance Requirement: Type I ≥ 95%, Type II ≥ 98%, Type IIR ≥ 98%
- 2) The number of specimens that shall be tested is minimum 5, but can be greater and shall be increased if necessary to allow for an AQL (Acceptable Quality Level) 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 and such sample(s) are retained for 30 days only.

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 (Shanghai) Co., Ltd.  
Testing Center - Textile Laboratory

3<sup>rd</sup> Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233  
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666  
t (86-21) 61402666

f (86-21) 64958763  
f (86-21) 64958763

[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



**Clause 5.2.3 Breathability**

(EN 14683 :2019+AC:2019 Annex C)

Sample: A

Test Side : Randomly test in different location (1 around and 4 away from the centric point) on each of the 5 masks

Pre-Conditioning : Minimum of 4 hours at 21±5°C and 85±5% R.H.

Test Area : 4.9 cm<sup>2</sup>

Flow Rate : 8 l/min

Specimen No.	Test Area No.	Different Pressure for each tested area (Pa/cm <sup>2</sup> )	The average value for each test specimen (Pa/cm <sup>2</sup> )
1	1-1	35.6	34
	1-2	34.9	
	1-3	35.5	
	1-4	33.0	
	1-5	30.4	
2	2-1	30.1	32
	2-2	34.4	
	2-3	30.6	
	2-4	31.2	
	2-5	34.6	
3	3-1	32.5	32
	3-2	34.4	
	3-3	32.9	
	3-4	27.9	
	3-5	33.4	
4	4-1	35.2	34
	4-2	32.9	
	4-3	36.1	
	4-4	35.7	
	4-5	29.6	
5	5-1	33.8	34
	5-2	31.5	
	5-3	33.6	
	5-4	32.9	
	5-5	37.5	

## Remark:

- 1) Performance Requirement: Type I<40 Pa/cm<sup>2</sup>, Type II<40 Pa/cm<sup>2</sup>, Type IIR<60 Pa/cm<sup>2</sup>
- 2) The number of specimens that shall be tested is minimum 5, but can be greater and shall be increased if necessary to allow for an AQL(Acceptable Quality Level) 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 and such sample(s) are retained for 30 days only.

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)

3<sup>rd</sup> Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233

t (86-21) 61402666

f (86-21) 64958763

[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)

中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666

f (86-21) 64958763

e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



**Clause 5.2.4 Splash Resistance**

(ISO 22609 :2004)

Sample: A

Test Blood Pressure

: 16.0kPa

Pre-Conditioning

: Minimum of 4 hours at 21±5°C and 85±5% R.H.

Distance of the mask to the tip of cannula

: 300±10mm

Test Specimen#	Penetration on inside surface	Conclusion	Test Specimen#	Penetration on inside surface	Conclusion
1	None Seen	Pass	17	None Seen	Pass
2	None Seen	Pass	18	None Seen	Pass
3	None Seen	Pass	19	None Seen	Pass
4	None Seen	Pass	20	None Seen	Pass
5	None Seen	Pass	21	None Seen	Pass
6	None Seen	Pass	22	None Seen	Pass
7	Seen	Fail	23	None Seen	Pass
8	None Seen	Pass	24	None Seen	Pass
9	None Seen	Pass	25	None Seen	Pass
10	None Seen	Pass	26	None Seen	Pass
11	None Seen	Pass	27	None Seen	Pass
12	None Seen	Pass	28	None Seen	Pass
13	Seen	Fail	29	None Seen	Pass
14	None Seen	Pass	30	None Seen	Pass
15	None Seen	Pass	31	Seen	Fail
16	None Seen	Pass	32	None Seen	Pass
Number of Pass:		29			
Overall result:		Acceptable			

## Remark:

- 1) Performance Requirement Type I: N/A, Type II: N/A, Type IIR: ≥16.0kPa
- 2) Test was conducted within 60s after removal from conditioning chamber.
- 3) An acceptable quality limit of 4.0% is met for a single sampling plan when 29 or more of the 32 tested specimens show pass results.



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 and such sample(s) are retained for 30 days only.

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)

3<sup>rd</sup> Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233

t (86-21) 61402666

f (86-21) 64958763

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

中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666

f (86-21) 64958763

[sgs.china@sgs.com](mailto:sgs.china@sgs.com)



Test Report

SL52025269146401TX-1

Date: August 28, 2020

Page 5 of 5

**Clause 5.2.5 Microbial Cleanliness**

(EN 14683:2019+AC:2019 Annex D and EN ISO 11737-1:2018)

Sample: A

Test Specimen#	Mask Weight(g)	Total Bioburden, (CFU/mask)	Total Bioburden, (CFU/g)
1#	2.86	33	12.00
2#	2.88	45	16.00
3#	2.71	42	16.00
4#	2.88	27	9.00
5#	2.85	45	16.00

Remark: Performance Requirement: Type I≤30 CFU/g, Type II≤30 CFU/g, Type IIR≤30 CFU/g

Sample Photo



The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

\*\*\*End of Report\*\*\*



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 and such sample(s) are retained for 30 days only.

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-CTC (Shanghai) Co., Ltd.  
Testing Center-Textile Laboratory

3<sup>rd</sup> Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233  
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666  
t (86-21) 61402666

f (86-21) 64958763  
f (86-21) 64958763

[www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)