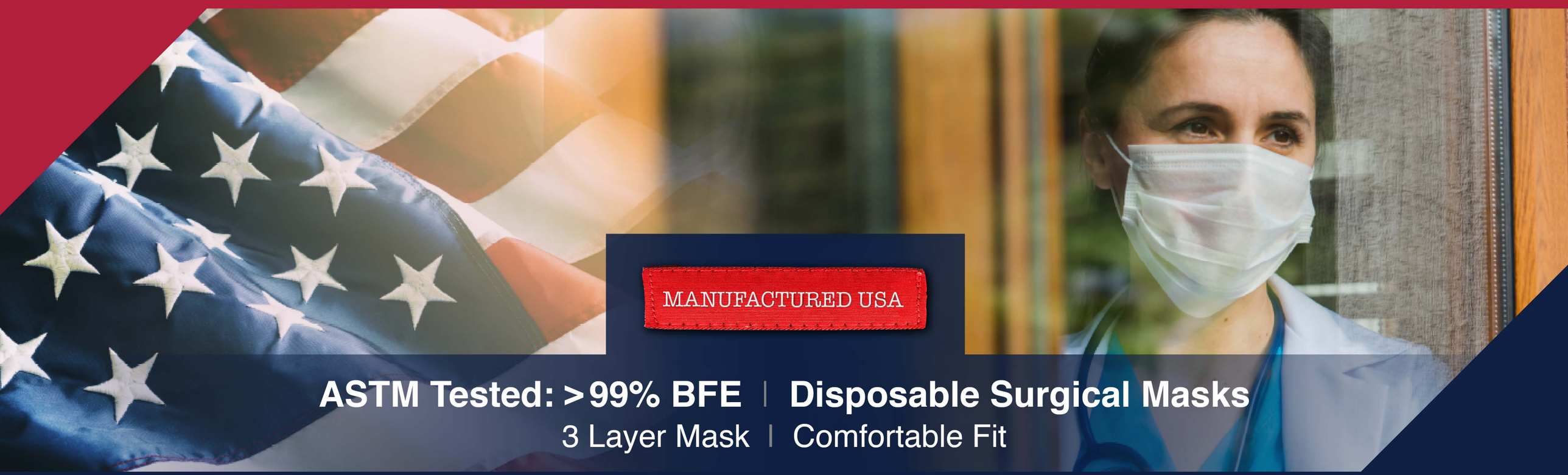
MANUFACTURED USA
ASTM Tested: >99% BFE | Disposable Surgical Masks
3 Layer Mask | Comfortable Fit


AMERICAN SURGICAL MASK CO.
MANUFACTURED USA
americansurgicalmask.com
Disposable
Face Mask
3-Layer/One-Time Use
Fabric Touching Skin:
100% Nonwoven Polypropylene
americansurgicalmask.com
AMERICAN SURGICAL MASK CO.
MANUFACTURED USA
50 CT BOX

TEST REPORT: 7191243300-CHM20-01-RC

Date: 07 SEP 2020 Tel: +65 68851345 Fax: +65 67732912

Client's Ref: Email: Randy.CHIN@tuv-sud-psb.sg

PSB Singapore

Add value.
Inspire trust.

SUBJECT

Bacterial Filtration Efficiency (BFE)

CLIENT

American Surgical Mask Company
5508 North 50th Street,
Suite #1000
Tampa, Florida 33610
USA

Attn : Mr. Aaron Watanabe

SAMPLE SUBMISSION DATE / TEST DATE

31 Aug 2020 / 02 Sep 2020

DESCRIPTION OF SAMPLE

One sample described as below was received:

Product Name / Brand Name	Manufacturer	Lot Number
Surgical Mask	American Surgical Mask Company	Nil

DESCRIPTION OF SAMPLE *(cont'd)*

Figure 1: "Surgical Mask" sample as received

Figure 2: "Surgical Mask" sample packaging as received

METHOD OF TEST

ASTM F2101-19 Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of *Staphylococcus aureus*.

Area contacting with the bacterial challenge: Inside of the mask
Flowrate: 28.3 ± 0.3 L/min
Mean particle size of the challenge aerosol: 3 µm ± 0.3 µm
Test area: Approximately 50 cm^2

PSB Singapore

RESULTS

Sample Description: Surgical Mask

Test sample/ controls	Stage 1, CFU	Stage 2, CFU	Stage 3, CFU	Stage 4, CFU	Stage 5, CFU	Stage 6, CFU	Sum of Total plate count for the 6 sieves, CFU	Average Count for Controls, CFU	BFE (%)
-ve Control	0	0	0	0	0	0	0		
+ve Control 1	212	457	736	684	501	6	2596	2621	
+ve Control 2	201	460	741	705	521	18	2646		
Sample 1	0	0	0	0	0	0	0		100.00
Sample 2	0	0	0	0	0	0	0		100.00
Sample 3	0	0	0	0	0	0	0		100.00
Sample 4	0	0	0	0	0	0	0		100.00
Sample 5	0	0	0	0	0	0	0		100.00

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Notes :

CFU : Colony Forming Unit
BFE : Bacterial Filtration Efficiency

Remarks :

The above test results relate to the samples as received.

MS AW HWEE YING
HIGHER TECHNICAL EXECUTIVE

MR RANDY CHIN KOK FEI
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS

PSB Singapore

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July 2011

Test Report No. 7191243300-EEC20-05-WBH
dated 10 Sep 2020

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SUBJECT

Breathability Test (Differential Pressure)

CLIENT

American Surgical Mask Company
5508 North 50th Street,
Suite #1000
Tampa, Florida 33610
USA

Attn : Mr. Aaron Watanable

SAMPLE SUBMISSION DATE/ TEST DATE

31 Aug 2020 / 09 Sep 2020

DESCRIPTION OF SAMPLES

One sample described as below was received:

Product Name / Brand Name	Manufacturer	Lot Number
Surgical Mask	American Surgical Mask Company	Nil

TÜV SÜD PSB

Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: enquiries@ tuvsud.com
https://www.tuvsud.com/en-sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221

DESCRIPTION OF SAMPLE *(cont'd)*

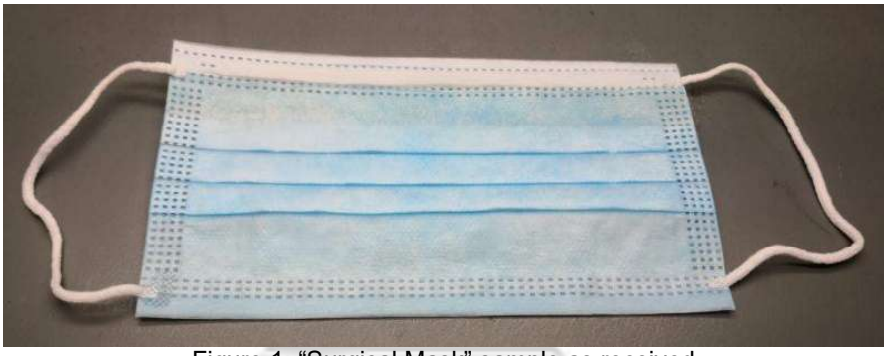

Figure 1: "Surgical Mask" sample as received

Figure 2: "Surgical Mask" sample packaging as received

METHOD OF TEST:

ASTM F2100-19 Standard Specification for Performance of Materials Used in Medical Face Masks -Clause 6.2/ 9.5 Flammability (test as specified in 16 CFR 1610)

PSB Singapore

RESULTS

Sample Description: Surgical Mask
Type of Fabric: Plain Surface Textile Fabrics

Flammability Test / 16 CFR 1610				Requirement / ASTM F2100 Clause 6.2	Inferred Result
S/N	Test Surface	Test Code	Test Classification		
1	Front	DNI	Class 1	Shall meet the requirements for Class 1, normal flammability specified in 16 CFR Part 1610	Pass
2	Front	DNI	Class 1		
3	Front	DNI	Class 1		
4	Back	DNI	Class 1		
5	Back	DNI	Class 1		

REMARKS

1. The above test results relate to the samples as received.
2. Specimens were tested in their original state.
3. DNI = Did not ignite
4. Both directions of the fabrics were observed with same burning characteristic.

William Wei
Associate Engineer

Wong Bee Hui
Product Manager
Medical Health Services (NAM)

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Effective 01 September 2020

Element Materials Technology
662 Cromwell Avenue
St Paul, MN
55114-1720 USA

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info.stpaul@element.com
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METHOD FOR DETERMINING THE INITIAL EFFICIENCY OF MATERIALS USED IN MEDICAL FACE MASKS TO PENETRATION BY PARTICULATES USING LATEX SPHERES (UN-NEUTRALIZED PARTICLES)

American Surgical Mask
Attn: Aaron Watanabe
675 Breakers St
Rosemary Beach, FL 32461

Date:	8/24/2020
Author:	Benton Garske
Project Number:	ESP034166P.1R0
Purchase Order Number:	Signed Quote

Respectfully submitted,

Karl Wigert
Principal Engineer
Product Evaluation Department
Phone: (651) 659-7342

Reviewed By,

Benton Garske
Department Manager
Product Evaluation Department
Phone: (651) 659-7202

INTRODUCTION

This report presents the results of testing of Particle Filtration Efficiency of Un-Neutralized Particles using ASTM F2299 as a guide. Aaron Watanabe of American Surgical Mask submitted the samples to our laboratory for testing on August 20, 2020. Testing and data analysis were completed on August 21, 2020.

OBJECTIVE

The scope of work was limited to testing per the methods of ASTM F2299/F2299M at a particle size of 0.1 micron as specified in ASTM F2100. Deviation from ASTM method by NOT Neutralizing particles, per customer request.

SAMPLE IDENTIFICATION

Submitted by	American Surgical Mask
Sample Description	Disposable Face Mask VXAMAX
Samples Received	August 20, 2020
Quantity Tested	QTY 5 Samples

Table 1. Sample Identification

TEST DATA

Samples	Particle Diameter	Particle Diameter Standard Deviation	Face Velocity	Pressure Drop	Un-Neutralized Efficiency
Sample 1	0.1 micron	0.005 – 0.015 micron	11.3 cm/s	6.52 mmH2O	97.3%
Sample 2	0.1 micron	0.005 – 0.015 micron	11.3 cm/s	7.97 mmH2O	97.9%
Sample 3	0.1 micron	0.005 – 0.015 micron	11.3 cm/s	7.28 mmH2O	97.7%
Sample 4	0.1 micron	0.005 – 0.015 micron	11.3 cm/s	7.11 mmH2O	97.6%
Sample 5	0.1 micron	0.005 – 0.015 micron	11.3 cm/s	8.03 mmH2O	97.7%

Table 2. Summary of Results

PHOTOGRAPH

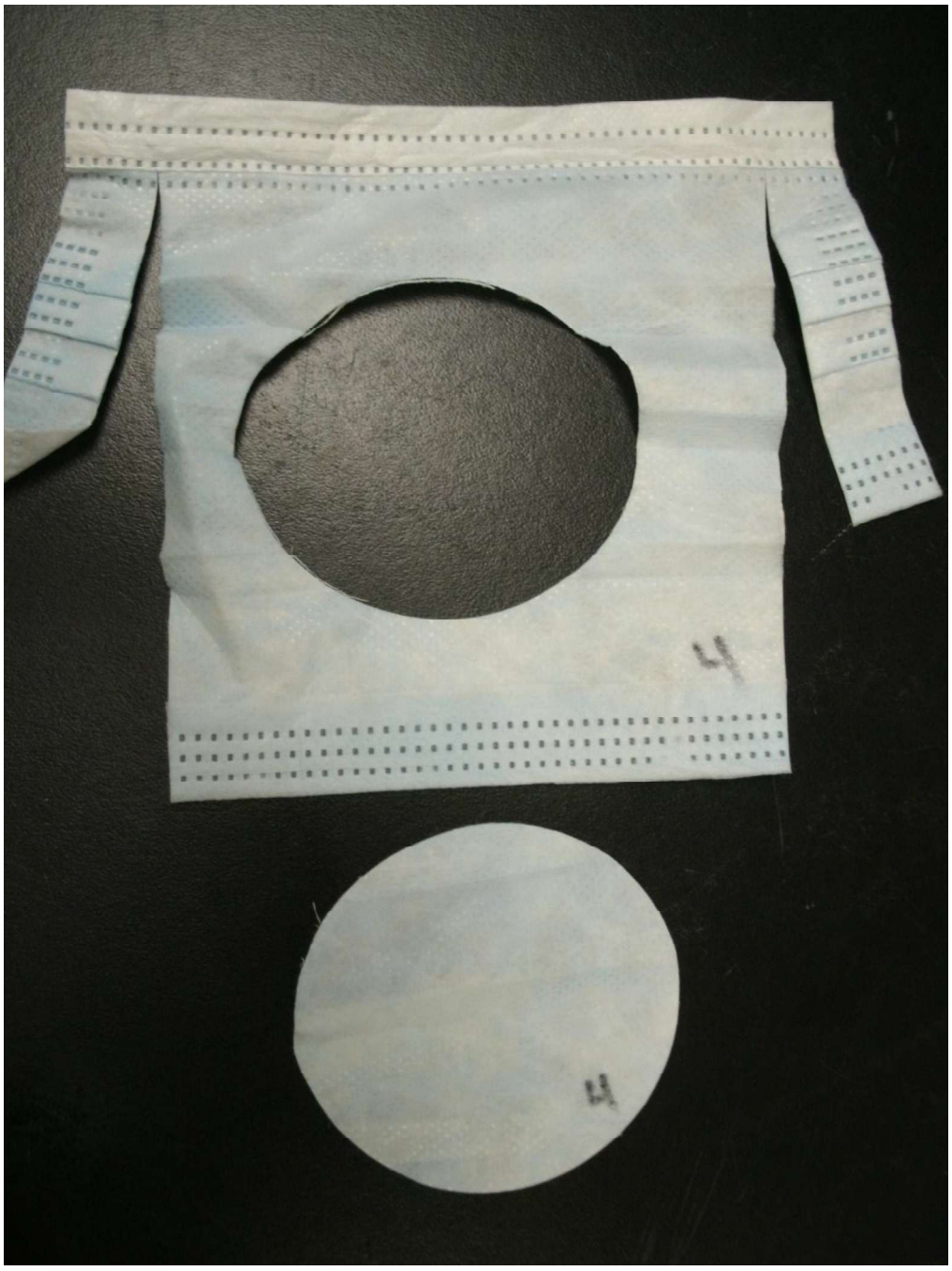

Figure 1. Sample Test Specimen

TEST METHOD

This test method measures the initial particle filtration efficiency of materials used in medical facemasks using monodispersed aerosols and light scattering particle counting. The filtration efficiency is measured by comparing the particle count in the feed stream (upstream) to that in the filtrate (downstream). Filtered and dried air is passed through an atomizer to produce an aerosol containing suspended latex spheres. This aerosol is then mixed and diluted with additional preconditioned air to produce an aerosol of latex spheres to be used in the efficiency test.

Per ASTM F2299, the particles are to be passed through a charge neutralizer. This testing was completed without passing the particles through a charge neutralizer at customer's direction.

TEST EQUIPMENT

Description	Asset ID#	Calibration Date	Calibration Due Date
Manometer	PT-161-117	05-NOV-2019	05-NOV-2020
Manometer	PT-165-038	08-APR-2020	08-APR-2021
Mass Flow Meter	PT-166-078	21-JAN-2020	21-JAN-2021
Temp/RH	PT-162-154	09-MAR-2020	09-MAR-2021
Particle Counter (Advanced Test Equipment)	19206	10-MAR-2020	10-MAR-2021
Temp/Humidity	MM190-024	2-JUN-2020	2-JUN-2021

Table 3. Test Equipment

Aerosol Generator
Aerosol was generated using a TSI 3076 Atomizer and TSI 3062 Dryer.

Particle Counter
PMS-LASAIR-III-110 Laser Diode-Based Particle Counter. NIST Traceable.

Challenge Particles
Sigma Aldritch Latex Beads, polystyrene – 0.1 micron mean particle size, MFC00131491, Certificate of Analysis on 26-NOV-2019. 10% Solid Content, particle diameter 0.10-0.12 micron with a standard deviation of 0.005-0.015 micron. NIST Traceable.

TEST CONDITIONS

Test Conditions	Parameters
Temperature of testing	72F
Relative Humidity of testing	40%
Temperature of Ambient	70F
Relative Humidity of Ambient	50% RH
Exposed Specimen Area	41.6 square centimeters

Table 4. Test Conditions

TEST REPORT: 7191243300-CHM20-02-LHS

Date: 07 SEP 2020 Tel: +65 68851335 Fax: +65 67784301

Client's Ref: - Email: Sihai.LI@tuvsud.com

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SUBJECT

Synthetic Blood Penetration Test

CLIENT

American Surgical Mask Company
5508 N 50th St Suite 1000,
Tampa, Florida 33610

Attn: Mr. Aaron Watanabe

SAMPLE SUBMISSION DATE / TEST DATE

31 Aug 2020 / 02 Sep 2020

DESCRIPTION OF SAMPLE

One mask sample described as below was received:

Product Name / Brand Name	Manufacturer	Lot No.
Surgical Mask	American Surgical Mask Company	Nil

TÜV SÜD PSB

Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: enquiries@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221

PSB Singapore

METHOD OF TEST

1) ASTM F1862-17
"Standard Test Method for Resistance of Medical Face Masks to Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume at a Known Velocity)"

Distance of mask to the tip of cannula	:	30.5 cm
Test volume	:	2 mL
Test side	:	Outside
Pre-conditioning	:	Minimum of 4 hours at 21 ± 5°C and 85 ± 5% r.h.
Test conditions*		
Test temperature	:	21 ± 5°C
Relative humidity	:	85 ± 5%
Pressure, mmHg	:	160 mmHg (21.3 kPa)

PSB Singapore

RESULTS

Test article number	Results	BS EN 14683:2019 Table 1 Type IIR Requirement
1	Passed	≥ 16.0 kPa [1]
2	Passed	
3	Passed	
4	Passed	
5	Passed	
6	Passed	
7	Passed	
8	Passed	
9	Passed	
10	Passed	
11	Passed	
12	Failed	
13	Passed	
14	Passed	
15	Passed	
16	Passed	
17	Passed	
18	Passed	
19	Passed	
20	Passed	
21	Passed	
22	Passed	
23	Passed	
24	Passed	
25	Passed	
26	Passed	
27	Passed	
28	Passed	
29	Passed	
30	Passed	
31	Failed	
32	Passed	
No. of passed	30 / 32	

Remark: (1) As per ISO 22609:2004, an acceptable quality limit of 4.0% is met for a single sampling plan when 29 or more of the 32 tested specimens showed pass results.

Note: Samples were randomly selected and identified for testing.

: (*) Test was conducted within 1 minute of removal from the environmental chamber held at pre-conditioning environment.

LIM HUI SIN
CHEMIST

DR LI SIHAI
AVP / SENIOR CHEMIST
COATINGS & INDUSTRIAL CHEMICALS
CHEMICAL & MATERIALS

APPENDIX

Figure 1. “Surgical Mask” sample as received.

Figure 2. “Surgical Mask” sample packaging as received.

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July 2011

August 20, 2020

LETTER OF APPOINTMENT

Dear Sir or Madam,

American Surgical Mask Co., LLC, a Florida Corporation with its principal offices at 5508 N. 50th Street, Tampa Florida, 33610, hereby confirm that we have appointed:

Boes Aviation and Asset Management, LLC

As our non-exclusive Distributor being entitled to promote, negotiate, tender, sell, and exhibit all of the products offered by American Surgical Mask Co., LLC, in the United States of America.

This appointment is valid until further notice.

If you have any questions, please do not hesitate to contact me at matt@americansurgicalmask.com

Best Regards,

Matt Brandman
President and CEO

American Surgical Mask Co., LLC
5508 N. 50th Street
Tampa, Florida 33610
matt@americansurgicalmask.com
850.228.2236