

DONG GUAN HANBO APPAREL CO.,LTD

ROOM 1001, 10TH FLOOR, SHUNXING BUILDING, HUMEN SECTION, 320 TAIAN ROAD, HUMEN TOWN, DONGGUAN, GUANGDONG

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

Sample Description : (A)Fabric mask

Sample Color : (A)BLACK

Composition : (A)Face: 100% POLYESTER, Base: 100% COTTON

Sample Size : 11cm X 16cm

Fabric Reference Code : Polyester warp knitted fabric

Style No. : MFF5

Factory : Dong Guan Hanbo Apparel CO.,LTD

Buyer : 3S MASK LTD

Country of Destination : Canada

SGS Internal Ref.No. : 15865174

Proposed Care Instruction :



How to wash / Comment se laver

-Soak the mask in warm soapy water for 5 minutes and then gently clean the mask with soft brush.

-Dip in clean water for 5 minutes and rinse for 2 minutes until clean.

Hang & natural dry.

-Avoid machine wash, rubbing, twisting or squeezing the mask, to avoid potential damage the built-in Nano Filter.

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

Sample Receiving Date : Jan 19, 2022

Testing Period : Jan 19, 2022 - Feb 14, 2022

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).



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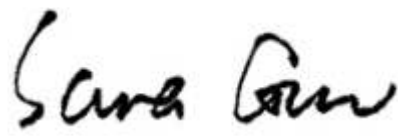
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ASTM F3502-2021 Standard Specification for Barrier Face Coverings	(A)
Section 5 Design Requirements	
---Design Assessment by visual inspection	M
---Flammability Test	M
---Leakage Assessment	REFER TO DETAIL
Section 6 Performance Requirements	
---Sub-Micron Particulate Filtration Efficiency	LEVEL 2
---Airflow Resistance (inhalation)	LEVEL 1
Section 10 Labelling Requirements	F
Section 11 User Instructions	F

Remark: M=Meet ASTM F3502-2021 Requirement
F=Below ASTM F3502-2021 Requirement

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



Sara Guo (Account Executive)

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Test Result

Standard Specification for Barrier Face Coverings

ASTM F3502:2021

Section 5 Design Requirements

(ASTM F3502:2021)

Sample A

Section	Description	Conclusion
5.1.1 Leakage and Leakage Assessment	The barrier face covering shall be designed to cover at least the wearer's nose and mouth and fit snugly where the product contacts the wearer's face to reduce gaps. Qualitative design analysis must be submitted (see section 5.4).	Detail results refer to Section 5.4
5.1.2 Non-Irritating and Non-Toxic Materials	Portions of the barrier face covering materials that contact the wearer's skin shall be made of non-irritating and nontoxic materials.	Not conducted Note: Suggest assessing through a biocompatibility evaluation. E.g. ISO 10993-1.
5.1.3 Flammability	Barrier face coverings shall not be made of materials that pose a flammability hazard when tested to 16 CFR 1610 or 1611. (Notes: where barrier face covering are used in applications where flame, high heat, electrical arc, or other thermal hazards are present, barrier face coverings shall be qualified to the respective applicable standards, as appropriate.)	Detail results refer to Section 5.1.3 Flammability Test
5.1.4 Sharp Points/Edges	Barrier face coverings shall be free of any sharp edges, sharp points, or burrs.	Pass
5.1.5 Damage	Barrier face covering shall be constructed of materials and designed such that they will not be damaged by ordinary handling, donning, and doffing. If intend to be reusable barrier face covering shall be constructed of materials and design such that they will not be damaged by ordinary handling, donning, and doffing after being repeatedly subjected to laundering or cleaning as specified by the manufacturer. After 50 cycles AATCC Laboratory Procedure 2-2018: Hand wash at 80±5°F with 20g of 1993 AATCC Standard Reference Detergent, Line Dry	As received: Pass After laundering: Pass
5.1.6 Shape	Barrier face coverings shall be designed, shaped, or have features that aid in minimizing the flow of air around the perimeter of the product.	Detail results refer to Section 5.4 Leakage Assessment
5.1.7 Vents, Valves, or Other Open	Barrier face coverings shall not have vents, valves, or other open pathways as part of their design.	Pass



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Pathways		
5.1.8 Replaceable Filters	Barrier face coverings with replaceable filters shall have means for preventing the improper placement of the filters.	N/A
5.1.9 Transparent Materials	Barrier face coverings that include transparent materials for the purpose of allowing others to view the wearer's lips shall afford sufficient filtration material to provide the function of source control.	Not applicable or Detail results refer to Section 5.6 Sub-Micron Particulate Filtration Efficiency
5.2 Retention System	Barrier face coverings shall have a means for keeping the barrier face covering over the wearer's nose and mouth for the expected period of use and range of activities. Where the barrier face covering uses a head harness, the head harness shall provide for adjustment to allow proper fit on the wearer's head. When the head harness is made from elastic materials, the elasticity of the harness material is considered adequate adjustability for proper use.	Pass
5.3 Sizing	Where intended to be worn by a range of individuals, multiple sizes shall be permitted, but not required, to allow a single model to fit a wide variety of the end user population, excluding very young children (<2 years). Barrier face coverings shall be permitted to be offered in single sizes for the general population and for specific population groups such as children.	Pass



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Section 5.1.3 Flammability Test
(16 CFR Part 1610 - 2008)

Sample : A
Fabric Surface : Plain
Test Specimen Direction : Length

As Received			After Dry-cleaning and Laundering*		
	Flame Spread (sec.)	Burn Code		Flame Spread (sec.)	Burn Code
(1)	-	IBE	(1)	-	IBE
(2)	-	IBE	(2)	-	IBE
(3)	-	IBE	(3)	-	IBE
(4)	-	IBE	(4)	-	IBE
(5)	-	IBE	(5)	-	IBE
(Avg.)	-	-	(Avg.)	-	-

Flammability Classification: Class 1

Requirement (Class 1)
Plain surface: ≥ 3.5 seconds
Raised surface: > 7 s with or without base burn

* Drycleaning & Laundering Procedure is according to 16 CFR 1610:6(b).

Burn Code Description:

IBE = Ignited, but extinguished



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Section 5.4 Leakage Assessment

(ASTM F3502-2021 Section 8.3)

Sample A

Size: medium

As received

Test Subject	Sample No.	The leakage ratio (%)							
		Normal breathing	Deep breathing	Head Side/side	Head Up/down	Talk	Bending over	Normal breathing	Mean
Zhou	1	4.13	4.80	4.27	4.30	4.98	3.82	4.76	4.5
Li	2	4.19	4.12	3.76	4.93	3.08	4.48	3.94	4.0
Luo	3	3.32	3.67	3.86	3.27	3.67	3.12	3.67	3.5
Sun	4	3.32	3.27	3.63	3.72	3.70	3.46	3.65	3.5
Ding	5	2.55	2.82	2.82	3.18	3.71	3.91	3.19	3.0
Mao	6	3.00	3.22	3.59	3.81	3.22	3.46	3.52	3.5
Bao	7	3.55	3.02	3.05	3.20	3.41	3.18	3.21	3.0
Liang	8	2.57	2.55	2.53	2.49	2.13	2.28	2.36	2.5
Ge	9	2.41	2.24	2.29	2.19	2.79	2.04	2.22	2.5
Qin	10	2.01	2.02	2.23	2.12	2.28	2.25	2.19	2.0

After 50 washes

Test Subject	Sample No.	The leakage ratio (%)							
		Normal breathing	Deep breathing	Head Side/side	Head Up/down	Talk	Bending over	Normal breathing	Mean
Zhou	1	5.80	5.59	5.19	5.81	5.35	5.17	5.85	5.5
Li	2	5.58	5.67	5.30	5.96	5.71	5.18	4.34	5.5
Luo	3	4.84	4.02	4.30	4.63	4.54	4.94	4.57	4.5
Sun	4	4.43	4.53	4.45	4.40	4.73	4.31	4.73	4.5
Ding	5	3.36	4.78	4.72	3.46	3.43	4.84	4.47	4.0
Mao	6	4.03	3.46	4.91	3.52	4.58	4.38	4.39	4.0
Bao	7	3.64	3.31	3.37	3.39	3.42	3.96	3.32	3.5
Liang	8	2.00	3.80	3.72	3.70	2.67	3.75	3.67	3.5
Ge	9	2.55	2.02	3.79	2.62	3.97	3.95	3.05	3.0
Qin	10	3.22	3.69	2.70	3.54	2.48	3.39	2.79	3.0



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Facial Dimension

Cell	Test Subject	Face width/mm Bizygomatic breadth	Face length/mm Menton-Sellion length
#2	Zhou	135.5	102.3
#3	Li	130.0	110.5
#4	Luo	136.8	109.0
#4	Sun	137.8	113.6
#5	Ding	150.1	110.8
#6	Mao	124.6	120.5
#6	Bao	128.2	127.3
#7	Liang	135.6	124.7
#9	Ge	138.2	135.1
#9	Qin	142.5	130.5

The leakage ratio of barrier face covering

Barrier face covering size	Barrier face covering	Leakage ratio (%)	Leakage ratio (%) of each size
Medium	New covering	3.0	3.0
	Covering after cleaning	4.0	

A test consists of following exercises, each test exercise shall be performed for 1 min, except for the grimace exercise, which shall be performed for 15s.

Exercise 1	Normal breathing. In a normal standing position, without talking, the test subject shall breathe normally.
Exercise 2	Deep breathing. In a normal standing position, the test subject shall breathe slowly and deeply, taking caution so as not to hyperventilate.
Exercise 3	Turning head side to side. Standing in place, the test subject shall slowly turn his/her head from side to side between the extreme positions on each side, taking approximately 2 s to go from one extreme to the other (that is, taking 2 s to turn the head from left to right). The head shall be held at each extreme momentarily so the test subject can inhale at each side.
Exercise 4	Moving head up and down. Standing in place, the test subject shall slowly move his/her head up and down, taking approximately 2 s to go from one extreme to the other (that is, head tilted up to head tilted down). The test subject shall be instructed to inhale in the up position (that is, when looking toward the ceiling).
Exercise 5	Talking. The test subject shall be instructed to talk out loud slowly. The test subject can read from a prepared text such as a modified Rainbow Passage or Grandfather Passage, count backward from 100, or recite a memorized poem or song.
Exercise 6	Grimace. Keeping his/her upper and lower lips together, the test subject shall smile and frown without any other facial movement while breathing normally. (Note: the grimace exercise is not included in the calculation)
Exercise 7	Bending over. The test subject shall bend at the waist and keeping the head and back parallel to the floor as if touching his/her toes. The test subject will pause long enough to inhale twice. The test subject will stand up straight, pausing long enough to inhale twice. These movements will be repeated at a comfortable pace.
Exercise 8	Normal breathing. In a normal standing position, without talking, the test subject shall breathe normally.

Remark: Washing Procedure :AATCC TM 150-2018/AATCC Laboratory Procedure 2-2018:Hand wash at 80±5°F with 20g of 1993 AATCC Standard Reference Detergent, Line Dry



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Section 6 Sub-Micron Particulate Filtration Efficiency (ASTM F3502-2021 Section 8.1)

Sample A

Test side: Outside

Test condition: 30±10%RH, 25±5°C

Nature of aerosol: Sodium chloride NaCl

Particle size: 75±20 nm

Airflow: 10±0.5 cm/s

Test time: The stabilization time for the test shall be a minimum of 6 s. The measurement time should be a minimum of 4 s, not exceed 15 s.

Sample	Filtration efficiency (%)										Min.
	1#	2#	3#	4#	5#	6#	7#	8#	9#	10#	
As received	92.25	91.38	90.59	91.26	92.21	90.38	91.37	89.46	92.55	93.14	86
After 50 washes	90.28	88.16	91.25	87.38	88.45	86.88	90.15	92.13	88.47	89.52	
Recommended Level:											2

Remark: Performance Requirement:

Level 1(Lower performance): ≥20%;

Level 2(Higher performance): ≥ 50%

Remark: Washing Procedure :AATCC TM 150-2018t/AATCC Laboratory Procedure 2-2018:Hand wash at 80±5°F with 20g of 1993 AATCC Standard Reference Detergent, Line Dry

Section 6 Airflow Resistance (inhalation)

(ASTM F3502-2021 Section 8.2, The aerosol challenge turned off, Airflow: 10±0.5 cm/s)

Sample A

Sample	Airflow Resistance for inhalation (mmH ₂ O)										Max.
	1#	2#	3#	4#	5#	6#	7#	8#	9#	10#	
As received	14.3	13.8	14.2	14.6	14.1	13.9	13.4	13.6	13.8	14.5	15
After 50 washes	13.2	12.9	13.5	13.7	13.7	13.8	14.0	13.2	13.1	13.7	
Recommended Level:											1

Remark: Performance Requirement:

Level 1(Lower performance) : ≤15 mmH₂O;

Level 2(Higher performance): ≤ 5 mmH₂O

Remark: Washing Procedure : AATCC TM 150-2018t/AATCC Laboratory Procedure 2-2018:Hand wash at 80±5°F with 20g of 1993 AATCC Standard Reference Detergent, Line Dry



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Section 10 Labelling Requirements

(ASTM F3502-2021 Section 10)

Sample A

Item	Requirements	Observation Results
10.1	<p>The barrier face covering label shall have, at a minimum:</p> <ol style="list-style-type: none"> 1. the manufacturer's name, identification, designation, or logo; 2. the barrier face covering model or style; and 3. the following statement: "MEETS ASTM F3502." <p>Information shall be printed anywhere on the product or on a permanently affixed tag. The label information shall be accessible without damaging the product.</p>	Present
10.2	<p>The packaging containing the smallest saleable unit/package from which the user withdraws the product for use shall provide the following statement:</p> <p>"MEETS ASTM F3502, SPECIFICATION FOR BARRIER FACE COVERINGS. THIS PRODUCT IS PRIMARILY INTENDED AS A MEANS OF SOURCE CONTROL FOR MINIMIZING THE PROJECTION OF EXPELLED MATERIALS FROM THE WEARER'S NOSE AND MOUTH. WARNING: THIS BARRIER FACE COVERING IS NOT A MEDICAL FACE MASK AS DEFINED IN ASTM F2100, IS NOT INTENDED FOR USE IN MEDICAL PROCEDURES, AND IS NOT A RESPIRATOR."</p> <p>Information shall be printed on the package where the point-of-sale user may view it in its entirety.</p> <p>(Notes: The above warning shall be permitted to exclude references to medical face masks if product also meets Specification F2100. Or, The above warning shall be permitted to exclude references to respirators if the product is a respiratory protective device that is also approved under 42 CFR Part 84 and is listed in the NIOSH Certified Equipment List.)</p>	Present based on specification ASTM F3502 compliant only
10.2.4	The separate classifications of product performance in terms of sub-micron particulate filtration efficiency and airflow resistance shall be provided as specified in Section 9.2 (See Annex: CLASSIFICATION – Barrier Performance (Reference Only))	Absent
10.2.5	The following information shall also be printed legibly on the product packaging:	
10.2.5.1	Manufacturer's name, identification, or designation.	Present
10.2.5.2	Manufacturer's address.	Present
10.2.5.3	Country of manufacture.	Present
10.2.5.4	Barrier face covering model or style.	Present
10.2.5.5	Primary materials of construction.	Present



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10.2.5.6	Month and year of manufacture, not coded	Absent
10.2.5.7	Lot or trace number, if applicable.	N/A
10.2.5.8	Size, if applicable.	Present
10.2.5.9	An indication if the product is for single use or can be reused if cleaned or laundered.	Present
10.2.5.10	Expiration date, if applicable.	N/A
10.2.5.11	Manufacturers shall be permitted to include certain variable information, including the manufacturer and year of manufacture, lot or trace number, and size on the label that appears on the barrier face covering instead of the packaging.	Absent

Remark:

The marking review was based on artwork provided by client, according to ASTM F3502-2021 section 10 only, not refer to other applicable legislation.

The above results are only for inspecting the integrity and standardization of the labelling of the product, not including verifying the truth of the content.



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Section 11 User Instructions
(ASTM F3502-2021 Section 11)

Sample A

Item	Requirements	Observation Results
11.1	A set of use instructions shall be provided with the package containing the smallest saleable unit/package from which the user withdraws the product that includes the following information or statements:	
11.1.1	The manufacturer, product, and compliance information, and warning statements provided in 10.2.	Present
11.1.2	Information on how to select the correct size and make adjustments in the fit (if applicable).	Present
11.1.2.1	If applicable, sizing information shall include manufacturer information on how individual sizes of barrier face coverings are specified.	Present
11.1.3	Procedures for donning (how to put on) and doffing (how to take off).	Present
11.1.3.1	Where the product can be donned in more than one orientation such that the filter does not cover the nose and mouth as intended by the manufacturer, the donning procedures shall instruct the wearer how to identify the proper orientation and filter placement.	Not applicable
11.1.4	If the product is reusable then inspection, use, and care instructions, including laundering or cleaning and the service life (maximum number of laundering or cleaning cycles), or specific details regarding when the barrier face covering should be discarded, shall be included.	Absent
11.1.5	Any other cautions and limitations.	Present
11.1.6	Conditions of storage and the shelf life, if applicable or known (if stored without use).	Not applicable
11.1.7	How to tell when the barrier face covering has reached the end of its useful life (that is, when it should be replaced).	Absent
11.1.8	Procedures for disposal of product following use.	Absent

Remark:

The user instruction check was based on artwork provided by client, according to ASTM F3502-2021 section 11 only, not refer to other applicable legislation.

The above results are only for inspecting the integrity and standardization of the instructions for use of the product, not including verifying the truth of the content.



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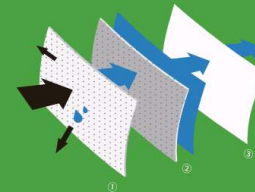
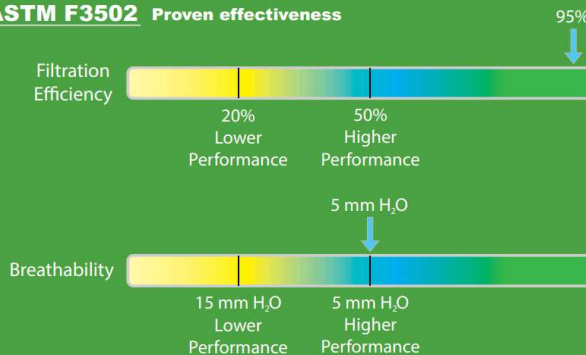


FABRIC MASK
MASQUE EN TISSU

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Manufacturer / Fabricante : 3S Mask
Address / Adresse : D-3889 Keith St., Burnaby, BC, V5J 5K4
Website / Site Internet : www.3smask.com

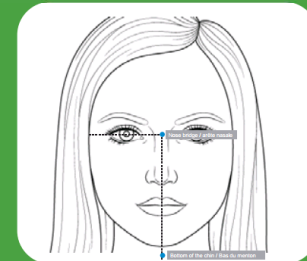
ASTM F3502 Proven effectiveness



- ① 100% high density polyester fabric. / Tissu 100% polyester haute.
- ② Nano filter-film with filtration efficiency ≥ 95%. / Nano-filtre-film avec une efficacité de filtration ≥ 95%.
- ③ 100% cotton fabric. / Tissu 100% coton.

Contour fitting and adjustable nose clip, adjustable earloops, adjustable headband. Ajustement de contour et pince-nez réglable, contour d'oreille réglable, bandeau réglable.

	Mask Measurement (inch) Mesure du masque (pouces)	Eye-Chin Distance (inch) Distance œil-menton (pouces)
XS	5 1/2" High x 7 1/2" Wide	3 1/2" and less
S	5 7/8" High x 8" Wide	3 1/2" - 4"
M	6 1/4" High x 8 1/2" Wide	4" - 4 1/2"
L	6 5/8" High x 9" Wide	4 1/2" - 5"
XL	7" High x 9 1/2" Wide	5" and more



Tested to ASTM F3502 Standard for Filtration Efficiency & Breathability / Testé selon la norme ASTM F3502 pour l'efficacité de filtration et la respirabilité

MEETS ASTM F3502, SPECIFICATION FOR BARRIER COVERINGS. THIS PRODUCT IS PRIMARILY INTENDED AS A MEANS OF SOURCE CONTROL FOR MINIMIZING THE PROJECTION OF EXPELLED MATERIALS FROM THE WEARER'S NOSE AND MOUTH.

WARNING: THIS BARRIER FACE COVERING IS NOT A MEDICAL FACE MASK AS DEFINED IN ASTM F2100, IS NOT INTENDED FOR USE IN MEDICAL PROCEDURES, AND IS NOT A RESPIRATOR.

CONFORME À L'ASTM F3502, SPÉCIFICATIONS POUR LES REVÊTEMENTS DE BARRIÈRE. CE PRODUIT EST PRINCIPALEMENT CONÇU COMME MOYEN DE CONTRÔLE DE LA SOURCE POUR MINIMISER LA PROJECTION DE MATIÈRES EXFUSÉES PAR LE NEZ ET LA BOUCHE DU PORTEUR.

AVERTISSEMENT : CE COUVRE-VISAGE BARRIÈRE N'EST PAS UN MASQUE MÉDICAL TEL QUE DÉFINI DANS ASTM F2100, N'EST PAS CONÇU POUR UNE UTILISATION DANS DES PROCÉDURES MÉDICALES ET N'EST PAS UN RESPIRATEUR.

How to use / Comment utiliser

- Sanitize your hands before and after touching the mask.
- Touch only the bands or ties when putting on and taking off your mask.
- Adjust the ear loops and nose clip to make sure the mask fits to cover your nose, mouth and chin. Optional headband can help releasing stress to ears.
- To help prevent air leakage, masks should fit snugly against the sides of the face and not have gaps.

- Désinfectez-vous les mains avant et après avoir touché le masque.
- Ne touchez que les bandes ou attaches lors de la mise et du retrait de votre masque.
- Ajustez les boucles d'oreille et le pince-nez pour vous assurer que le masque s'adapte à votre nez, votre bouche et votre menton. Un serre-tête en option peut aider à libérer le stress des oreilles.
- Pour aider à prévenir les fuites d'air, les masques doivent être bien ajustés contre les côtés du visage et ne pas présenter d'espace.

How to wash / Comment se laver

- Soak the mask in warm soapy water for 5 minutes and then gently clean the mask with soft brush.
- Dip in clean water for 5 minutes and rinse for 2 minutes until clean. Hang & natural dry.
- Avoid machine wash, rubbing, twisting or squeezing the mask, to avoid potential damage the built-in Nano Filter.

- Faire tremper le masque dans de l'eau chaude savonneuse pendant 5 minutes puis nettoyer délicatement le masque avec une brosse douce.
- Tremper dans de l'eau propre pendant 5 minutes et rincer pendant 2 minutes jusqu'à ce qu'il soit propre. Accrocher et sécher naturellement.
- Évitez de laver en machine, de frotter, de tordre ou de serrer le masque, pour éviter d'endommager le nanofiltre intégré.

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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



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