

# CERTIFICATE

Fulfills testing requirement of the PPE (Personal Protective Equipment) Directive (EU) 2016/425.

Registration No.: YB200323115XY-PPE-A1

Report No.: YB200323115XY-PPE-B1



## Certificate of Compliance

**Applicant** : Quanzhou Tiandi Weaving Co., Ltd  
**Address** : No.301 Bandaian, Houxu Village, Wangchuan Town, Huian County, Quanzhou City, Fujian Province  
**Manufacturer** : Quanzhou Tiandi Weaving Co., Ltd  
**Address** : No.301 Bandaian, Houxu Village, Wangchuan Town, Huian County, Quanzhou City, Fujian Province  
**Product** : Disposable face mask  
**Trademark** : N/A  
**Model No.** : TDM0101001  
**Classification** : FFP2

The submitted sample of the above equipment has been tested and found to comply with the following standards:

### EN 149:2001+A1:2009

Respiratory protective devices – Filtering half masks to protect against particles – requirements, testing marking

The test results apply only to the particular sample tested and to the specific tests carried out.

Technical report and documentation are at the holder disposal

This certificate applies specifically to the sample investigated in our test reference number only.

It is possible to use CE marking to demonstrate the compliance with this PPE directive. Other relevant directives have to be observed.



Certification Manager

Date : March 23, 2020

Youbest Testing Technology Co., Ltd.

1st Floor, Building D6, Xiakeng Road, Tongxin Community, Baolong Street, Longgang District  
Web: <https://www.youbest-lab.com> Tel: 400-168-1910



# CE/PPE TEST REPORT

For

Quanzhou Tiandi Weaving Co., Ltd

Product Name:	Disposable face mask
Brand Name:	N/A
Model Number:	TDM0101001
Prepared For:	Quanzhou Tiandi Weaving Co., Ltd
Address:	No.301 Bandaian, Houxu Village, Wangchuan Town, Huian County, Quanzhou City, Fujian Province
Prepared By:	Youbest Testing Technology Co., Ltd.
Address:	1st Floor, Building D6, Xiakeng Road, Tongxin Community, Baolong Street, Longgang District
Report No.:	YB200323115XY-PPE-B1

## TEST RESULT CERTIFICATION

Applicant : Quanzhou Tiandi Weaving Co., Ltd  
Address : No.301 Bandaian, Houxu Village, Wangchuan Town, Huian County, Quanzhou City, Fujian Province  
Manufacturer : Quanzhou Tiandi Weaving Co., Ltd  
Address : No.301 Bandaian, Houxu Village, Wangchuan Town, Huian County, Quanzhou City, Fujian Province  
EUT : Disposable face mask  
Brand Name: : N/A  
Model Number : TDM0101001  
Date of Receipt: : March 17, 2020  
Test Date : March 18-21, 2020  
Date of Report : March 23, 2020  
Test Standard : EN 149:2001+A1:2009  
Respiratory protective devices – Filtering half masks to protect against particles – requirements, testing marking  
Comment : Based on the performed tests on submitted samples, the results comply with the PPE (Personal Protective Equipment) Directive (EU) 2016/425

Prepared by(Engineer): Nina Deng

Reviewer(Supervisor): Jack Li

Approved(Manager): Eric Sang



*This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Youbest Testing Technology Co., Ltd.*

Property	Method	Principle / Requirements	Result
Classification	EN 149:2001+ A1:2009 Clause 5	Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices: FFP1, FFP2 and FFP3.	Pass. FFP2.
Designation	EN 149:2001+ A1:2009 Clause 6	Particle filtering half masks meeting the requirements of this European Standard shall be designated in the following manner: Particle filtering half mask EN 149, year of publication, classification, option (where "D" is an option for a non re-useable particle filtering half mask and mandatory for re-useable particle filtering half mask).	Pass.
Nominal values and tolerances	EN 149:2001+ A1:2009 Clause 7.2	Unless otherwise specified, the values stated in this European Standard are expressed as nominal values. Except for temperature limits, values which are not stated as maxima or minima shall be subject to a tolerance of $\pm 5\%$ . Unless otherwise specified, the ambient temperature for testing shall be $(16 - 32)^\circ\text{C}$ , and the temperature limits shall be subject to an accuracy of $\pm 1^\circ\text{C}$ .	Pass. $+5^\circ\text{C}$ to $+38^\circ\text{C}$ .
Visual inspection	EN 149:2001+ A1:2009 Clause 7.3	The visual inspection shall also include the marking and the information supplied by the manufacturer.	Pass
Packaging	EN 149:2001+ A1:2009 Clause 7.4& Clause 8.2	Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use. The visual inspection is carried out where appropriate by the test house prior to laboratory or practical performance tests.	Pass

Material	EN 149:2001+ A1:2009 Clause 7.5& Clause 8.3	A breathing machine is adjusted to 25 cycles/min and 2,0 l/stroke. The particle filtering half mask is mounted on a Sheffield dummy head. For testing, a saturator is incorporated in the exhalation line between the breathing machine and the dummy head, the saturator being set at a temperature in excess of 37 °C to allow for the cooling of the air before it reaches the mouth of the dummy head. The air shall be saturated at $(37 \pm 2) \text{ }^\circ\text{C}$ at the mouth of the dummy head. In order to prevent excess water spilling out of the dummy's mouth and contaminating the particle filtering half mask the head shall be inclined so that the water runs away from the mouth and is collected in a trap.	Pass. Melt blown filter
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Property	Method	Principle / Requirements	Result
		Expose the particle filtering half masks to the following thermal cycle: a) for 24 h to a dry atmosphere of $(70 \pm 3) \text{ }^\circ\text{C}$ ; b) for 24 h to a temperature of $(-30 \pm 3) \text{ }^\circ\text{C}$ ; and allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing. The conditioning shall be carried out in a manner which ensures that no thermal shock occurs.	
Cleaning and disinfecting	EN 149:2001+ A1:2009 Clause 7.6& Clause 8.4& Clause 8.5	If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer. Testing shall be done in accordance with 8.4 and 8.5. With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class. Testing shall be done in accordance with 8.11.	Pass

<p>Practical performance</p>	<p>EN 149:2001+A1:2009 Clause 7.7&amp; Clause 8.4</p>	<p>Walking test The subjects wearing normal working clothes and wearing the particle filtering half mask shall walk at a regular rate of 6 km/h on a level course. The test shall be continuous, without removal of the particle filtering half mask, for a period of 10 min.</p> <p>Work simulation test The individual activities shall be arranged so that sufficient time is left for the comments prescribed.</p> <p>a) walking on the level with headroom of <math>(1,3 \pm 0,2)</math> m for 5 min; b) crawling on the level with headroom of <math>(0,70 \pm 0,05)</math> m for 5 min; c) filling a small basket (see Figure 1, approximate volume = 8 l) with chippings or other suitable material from a hopper which stands 1,5 m high and has an opening at the bottom to allow the contents to be shovelled out and a further opening at the top where the basket full of chippings is returned.</p> <p>The subject shall stoop or kneel as he wishes and fill the basket with chippings. He shall then lift the basket and empty the contents back into the hopper. This shall be done 20 times in 10 min.</p>	<p>Pass. The particle filtering half mask could undergo practical performance tests under realistic conditions.</p>
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Property	Method	Principle / Requirements	Result
Finish of parts	EN 149:2001+ A1:2009 Clause 7.8& Clause 8.2	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs. Testing shall be done in accordance with 8.2.	Pass. No sharp edges and burrs.
Total inward leakage	EN 149:2001+ A1:2009 Clause 7.9.1& Clause 8.5	1) walking for 2 min without head movement or talking; 2) turning head from side to side (approx. 15 times), as if inspecting the walls of a tunnel for 2 min; 3) moving the head up and down (approx. 15 times), as if inspecting the roof and floor for 2 min; 4) reciting the alphabet or an agreed text out loud as if communicating with a colleague for 2 min; 5) walking for 2 min without head movement or talking. The leakage P shall be calculated from measurements made over the last 100 s of each of the exercise periods to avoid carry over of results from one exercise to the other.	Total inward leakage is 9%.
Penetration of filter material	EN 149:2001+ A1:2009 Clause 7.9.2	The device shall be mounted in a leaktight manner on a suitable adaptor and subjected to the test(s), ensuring that components of the device that could affect filter penetration values such as valves and harness attachment points are exposed to the challenge aerosol. Testing of penetration, exposure and storage shall be done in accordance with EN 13274-7. The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1.	Pass The penetration of paraffin oil test is 4%. The penetration of sodium chloride test is 3.3%.

		<p style="text-align: center;">Table 1 — Penetration of filter material</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Classification</th> <th colspan="2">E) Maximum penetration of test aerosol (%)</th> </tr> <tr> <th>Sodium chloride test 95 l/min</th> <th>Paraffin oil test 95 l/min</th> </tr> <tr> <td></td> <td style="text-align: center;">%</td> <td style="text-align: center;">%</td> </tr> <tr> <td></td> <td style="text-align: center;">max.</td> <td style="text-align: center;">max.</td> </tr> </thead> <tbody> <tr> <td>FFP1</td> <td style="text-align: center;">20</td> <td style="text-align: center;">20</td> </tr> <tr> <td>FFP2</td> <td style="text-align: center;">6</td> <td style="text-align: center;">6</td> </tr> <tr> <td>FFP3</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> </tbody> </table>	Classification	E) Maximum penetration of test aerosol (%)		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min		%	%		max.	max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	
Classification	E) Maximum penetration of test aerosol (%)																						
	Sodium chloride test 95 l/min	Paraffin oil test 95 l/min																					
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FFP3	1	1																					
Compatibility with skin	EN 149:2001+ A1:2009 Clause 7.10r	Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.	Pass. Inner and out layer: Nonwoven pet fabric																				

Property	Method	Principle / Requirements	Result
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Flammability	EN 149:2001+ A1:2009 Clause 7.11& Clause 8.6	<p>The facepiece is put on a metallic dummy head which is motorized such that it describes a horizontal circle with a linear speed, measured at the tip of the nose, of <math>(60 \pm 5)</math> mm/s.</p> <p>The head is arranged to pass over a propane burner the position of which can be adjusted. By means of a suitable gauge, the distance between the top of the burner, and the lowest part of the facepiece (when positioned directly over the burner) shall be set to <math>(20 \pm 2)</math> mm.</p> <p>With the head turned away from the area adjacent to the burner, the propane gas is turned on, the pressure adjusted to between 0,2 bar and 0,3 bar and the gas ignited. By means of a needle valve and fine adjustments to the supply pressure, the flame height shall be set to <math>(40 \pm 4)</math> mm. This is measured with a suitable gauge. The temperature of the flame measured at a height of <math>(20 \pm 2)</math> mm above the burner tip by means of a 1,5 mm diameter mineral insulated thermocouple probe, shall be <math>(800 \pm 50)</math> °C.</p> <p>The head is set in motion and the effect of passing the facepiece once through the flame shall be noted.</p> <p>The test shall be repeated to enable an assessment to be made of all materials on the exterior of the device. Any one component shall be passed through the flame once only.</p>	Pass. The particle filtering half mask does not to continue to burn for more than 5 s after removal from the flame.
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Carbon dioxide content of the inhalation air	EN 149:2001+ A1:2009 Clause 7.12& Clause 8.7	<p>For this test the particle filtering half mask shall be fitted securely in a leak-tight manner but without deformation to a Sheffield dummy head (see Figure 6). Air shall be supplied to it from a breathing machine adjusted to 25 cycles/min and 2,0 l/stroke and the exhaled air shall have a carbon dioxide content of 5 % by volume.</p> <p>The CO<sub>2</sub> is fed into the breathing machine via a control valve, a flowmeter, a compensating bag and two non-return valves. Immediately before the solenoid valve a small quantity of exhaled air is preferably continuously withdrawn through a sampling line and then fed into the exhaled air via a CO<sub>2</sub> analyser. To measure the CO<sub>2</sub> content of the inhaled air, 5 % of the stroke volume of the inhalation</p>	Pass. The carbon dioxide content of the inhalation air (dead space) does not exceed an average of 1,0 %
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Property	Method	Principle / Requirements	Result
		<p>phase of the breathing machine is drawn off at the marked place by an auxiliary lung and fed to a CO<sub>2</sub> analyser. The total dead space of the gas path (excluding the breathing machine) of the test installation should not exceed 2000 ml.</p> <p>Measure the carbon dioxide content of the inhaled air and record continuously.</p>	
Head harness	EN 149:2001+ A1:2009 Clause 7.13	<p>The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.</p> <p>The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.</p>	Pass
Field of vision	EN 149:2001+ A1:2009 Clause 7.14	The field of vision is acceptable if determined so in practical performance tests.	Not applicable

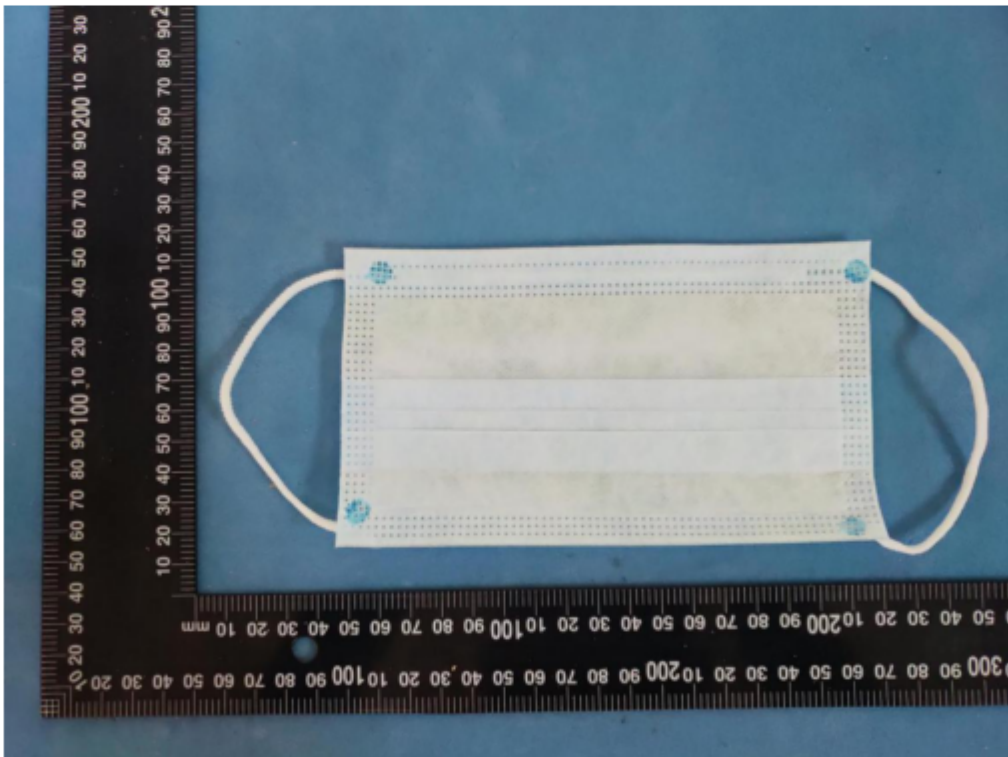
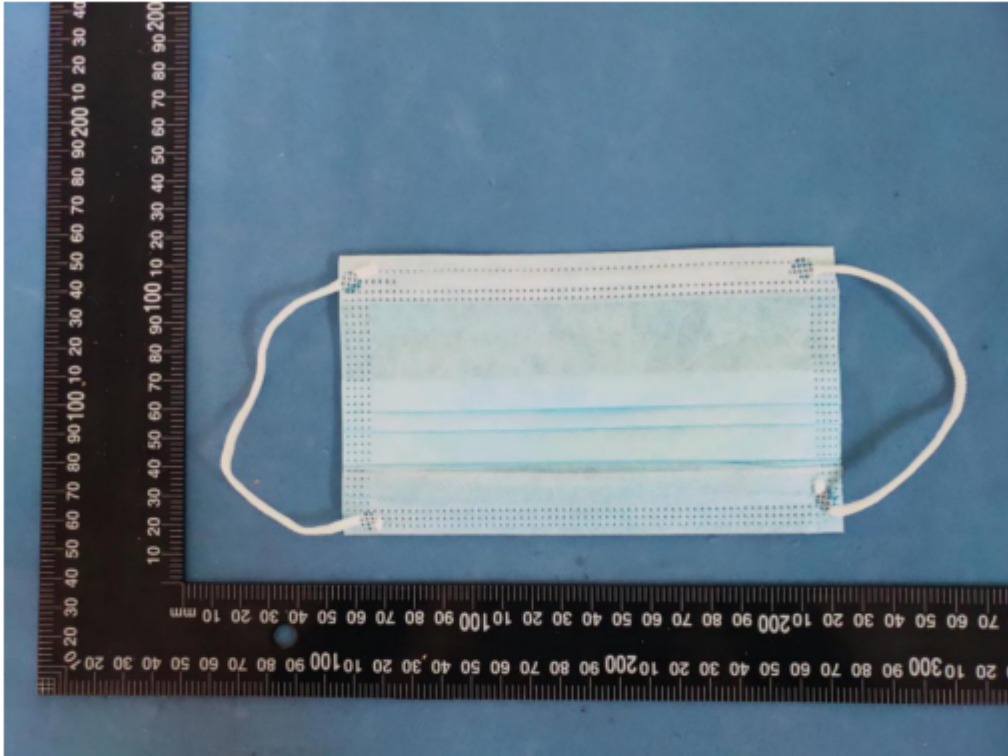
Exhalation valve(s)	EN 149:2001+A1:2009 Clause 7.15	<p>A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations. Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.</p> <p>When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.</p>	Pass.
Breathing resistance	EN 149:2001+A1:2009 Clause 7.16& Clause 8.9	<p>Seal the particle filtering half mask on the Sheffield dummy head. Measure the exhalation resistance at the opening for mouth of the dummy head using the adapter shown in Figure 6 and a breathing machine adjusted to 25 cycles/min and 2.0 l/stroke or a continuous flow 160 l/min. Use a suitable pressure transducer.</p> <p>Measure the exhalation resistance with the dummy head successively placed in 5 defined positions:</p> <ul style="list-style-type: none"> <li>facing directly ahead</li> <li>facing vertically upwards</li> <li>facing vertically downwards</li> <li>lying on the left side</li> <li>lying on the right side</li> </ul> <p>Test the inhalation resistance at 30 l/min and 95 l/min continuous flow.</p> <p>The breathing resistances apply to valved and</p>	<p>Pass. Inhalation resistance at 30 l/min: &lt;0.7mbar.</p> <p>Inhalation resistance at 95 l/min: &lt;2.4mbar.</p> <p>Exhalation resistance at 160 l/min: &lt;3.0mbar.</p>

Property	Method	Principle / Requirements	Result
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		<p>valveless particle filtering half masks and shall meet the requirements of Table 2.</p> <table border="1" data-bbox="614 1545 1189 1736"> <caption>Table 2 — Breathing resistance</caption> <thead> <tr> <th rowspan="3">Classification</th> <th colspan="3">Maximum permitted resistance (mbar)</th> </tr> <tr> <th colspan="2">inhalation</th> <th>exhalation</th> </tr> <tr> <th>30 l/min</th> <th>95 l/min</th> <th>160 l/min</th> </tr> </thead> <tbody> <tr> <td>FFP1</td> <td>0,6</td> <td>2,1</td> <td>3,0</td> </tr> <tr> <td>FFP2</td> <td>0,7</td> <td>2,4</td> <td>3,0</td> </tr> <tr> <td>FFP3</td> <td>1,0</td> <td>3,0</td> <td>3,0</td> </tr> </tbody> </table>	Classification	Maximum permitted resistance (mbar)			inhalation		exhalation	30 l/min	95 l/min	160 l/min	FFP1	0,6	2,1	3,0	FFP2	0,7	2,4	3,0	FFP3	1,0	3,0	3,0	
Classification	Maximum permitted resistance (mbar)																								
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FFP3	1,0	3,0	3,0																						

Clogging	EN 149:2001+ A1:2009 Clause 7.17& Clause 8.10	<p>Convey dust from the distributor to the dust chamber where it is dispersed into the air stream of 60 m /h.</p> <p>Fit the sample particle filtering half mask in a leaktight manner to a dummy head or a suitable filter holder located in the dust chamber. Connect the breathing machine and humidifier to the sample and operate for the specified testing time.</p> <p>The concentration of dust in the test chamber may be measured by drawing air at 2 l/min through a sampling probe equipped with a pre-weighed, high efficiency filter (open face, diameter 37 mm) located near the test sample, as shown in Figure 10.</p> <p>Calculate the dust concentration from the weight of dust collected, the flow rate through the filter and the time of collection.</p>	Not applicable
Demountable parts	EN 149:2001+ A1:2009 Clause 7.18	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.	Not applicable

### A.1 Photos





# Certificate

No. ICR Polska/M7006720



**Name and address of certificate owner:** Quanzhou Tiandi Weaving Co.,Ltd  
No.1 301 Bandaian,Houxu Village, Wangchuan Town,Huian County,Quanzhou City,Fujian

**Name and address of manufacturer:** Quanzhou Tiandi Weaving Co.,Ltd  
No.1 301 Bandaian,Houxu Village, Wangchuan Town,Huian County,Quanzhou City,Fujian

**Product name:** Disposable Protective Mask

**Product types:** TDM0101001

**This certificate confirms that the product meets the requirements of the following standards and within limits of its standards gives presumption of conformity with essential requirements of Regulation 2016/425**

EN 149:2001+A1:2009

The certification process has been carried out in accordance with the program PC-P-07-07.

Evaluation has been carried out in accordance with test reports made by European Quality Test Co., LTD.

**No. of test reports:** EQT-20(05)-0313H-PPE

**Certificate issue date:** 24.03.2020

**Expiration date:** 23.03.2025

The mutual obligations and rights of the certification are regulated by the contract No. ICR Polska/2020-7067.

This certificate applies to products having the same attributes (parameters), intended use, that have been evaluated and meet the requirements of the aforementioned standards.



Director: Rafał Kalinowski

Warsaw, 24. 03. 2020



**ICR Polska Co. Ltd.**

ul. Plac Przymierza 6, 03-944 Warszawa  
www.icrpolska.com, e-mail: icrpolska@icrqa.com



## Fiscal Year 2020 CERTIFICATE OF FDA REGISTRATION

This certifies that :

Through Shenzhen STA Testing Co., Ltd. has completed the with FDA Establishment Registration and Device Listing with the US Food & Drug Administration.

**Enterprise Information**

Enterprise Name : Quanzhou Tiandi Weaving Co., Ltd  
 Enterprise Address : No. 301 Bandaian, Houxu Village, Wangchuan Town, Huian County, Quanzhou, Fujian, 362103, CHINA  
 Owner/Operator Number: 10063523  
 Current Registration Yr : 2020

Listing No.	Product Code:	Device Name:	Activities	Models
D376658	MSH	Respirator, surgical	Manufacturer	Tiandi Disposable Face Mask

Shenzhen STA Testing Co., Ltd. will confirm that such registration remains effective upon request and presentation of this certificate until the end of calendar year stated above, unless said registration is terminated after issuance of this certificate. Shenzhen STA Testing Co., Ltd. makes no other representations or warranties, nor does this certificate make any representation or warranties to any person or entity other than the named certificate holder, for whose sole benefit it is issued. This certificate does not denote endorsement or approval of the certificate-holder's product(s) or establishment by the U.S Food and Drug Administration. Shenzhen STA Testing Co., Ltd. assumes no liability to any person or entity in connection with foregoing.

The U.S Food and Drug Administration does not issue a certificate of registrations, nor does the U.S Food and Drug Administration recognize a certificate of registration, Shenzhen STA Testing Co., Ltd. is not affiliated with the U.S Food and Drug Administration.



Issued date : March 21,2020

Expiration date : December 31, 2020





# HOW TO WEAR A MASK PROPERLY +

Step 1



LOOP THE STRAPS AROUND YOUR  
OVER THE EAR OR YOUR HEAD

Step 2



STRETCHING THE MASK TO COVER  
YOUR CHINS

Step 3



FIX THE METALLIC STRIP TO  
FIT THE SHAPE OF THE NOSE

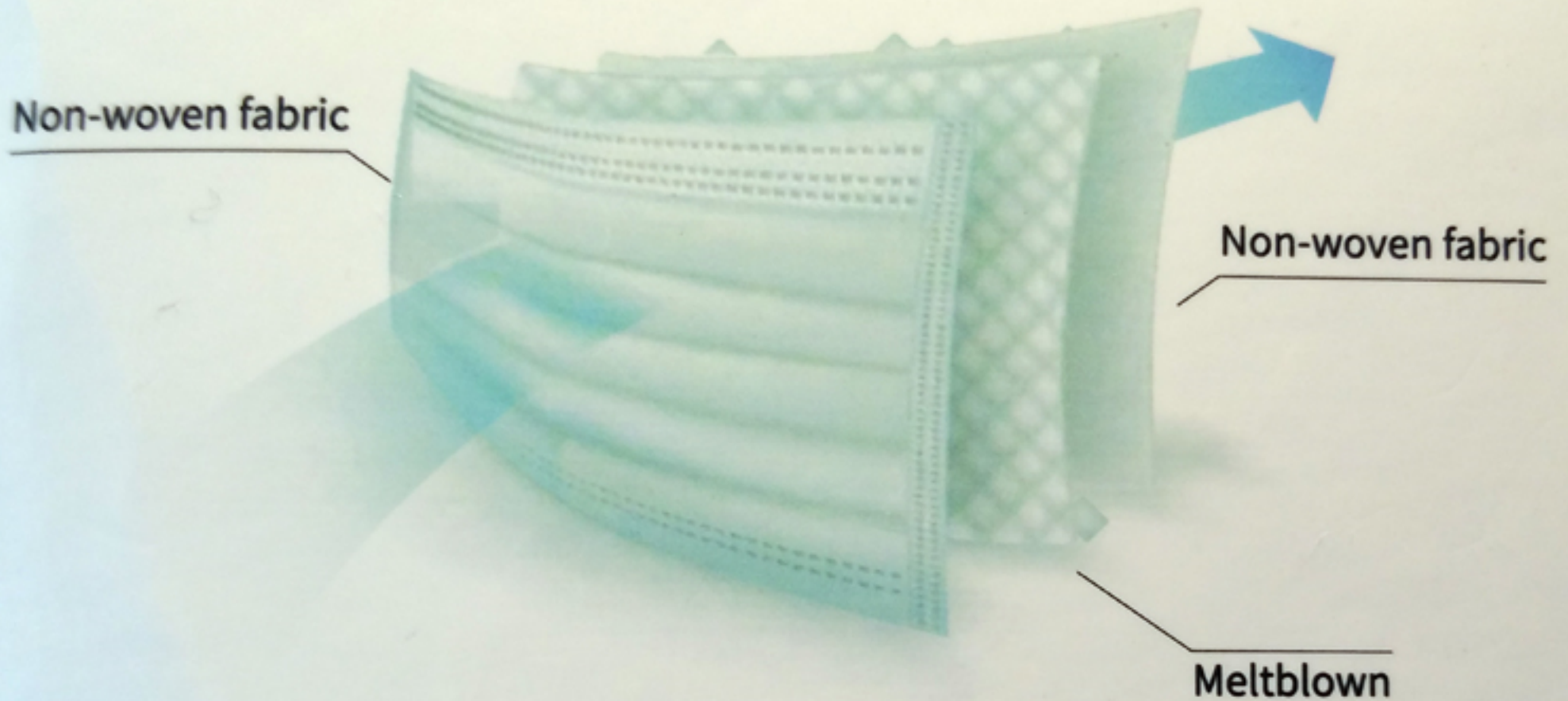
**MAIN MATERIAL:** Non-woven fabric and meltblown

**PRODUCT GRADE:** Qualified      **EXPIRY DATE:** Two years

**STORAGE CONDITIONS:** The packaged product should be stored in a room with a relative humidity not exceeding 80%, no corrosive gases, and good ventilation.

**NOTE:** It is recommended to replace it every 3-5 hours.





**Quanzhou Tiandi Weaving Co.,Ltd**

**ADDEWSS:** No.301 Bandaian, Houxu Village, Wangchuan Town, Huian County, Quanzhou City, Fujian Province

**EXECUTIVE STANDARD:** GB / T 32610-2016 **SANITARY STANDARD:** GB15979-2002

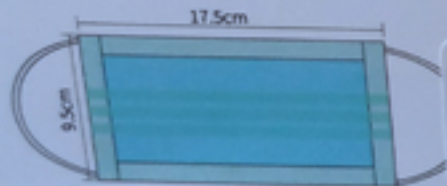
**MADE IN CHINA**

DISPOSABLE FACE MASK

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PCS

# DISPOSABLE FACE MASK

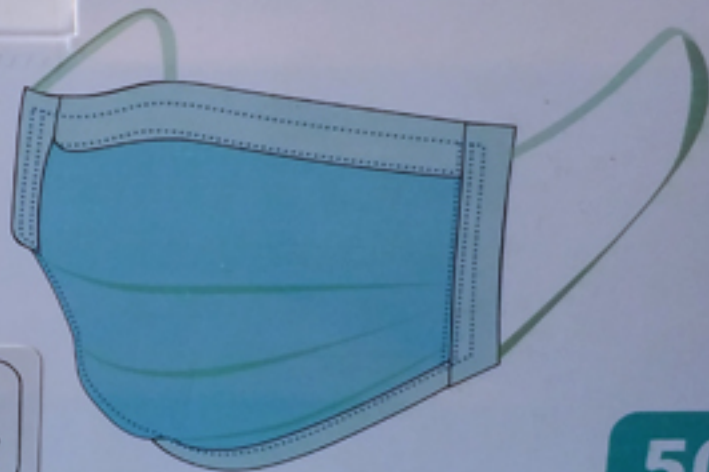
3 layers of protection, Light and breathable



DIMENSIONS

CE

FDA



50  
PCS