

Mascarilla FFP2 - Embolsadas individualmente caja de 10 unidades



Características técnicas:

- Cumple con la normativa EN 149:2001+A1:2009
- Eficiencia de filtrado >95%
- Certificado CE 2163. Las mascarillas cuentan con certificado CE para los productos de la categoría III. Las mascarillas han superado con éxito los tests que se han llevado a cabo y cumple con los requisitos establecidos en el Reglamento sobre equipos de protección personal (UE) 2016/425 y normas garantizadas por evaluaciones basadas en el anexo 7 (módulo C) o el anexo 8 (módulo d).
- Diseño de cinco capas: Agradable para la piel. El exterior está elaborado con tela no tejida, dos capas de tela fundida envuelta con capa de relleno
- Filtro medio de mayor eficiencia para la más alta protección contra partículas por encima de los requisitos estándar
- Elástico de sujeción que ofrece un plus de durabilidad a la mascarilla.
- Permite la comunicación.
- Puente nasal interior de alta estabilidad.
- Probada su eficacia en laboratorios. Este certificado de cumplimiento se ha otorgado en función de los resultados de las pruebas realizadas por la empresa Guangdong YiDao Medical Technology Co.,
- Medios filtrantes de alto rendimiento con baja resistencia a la respiración.
- Excepcional comodidad y ajuste de la mascarilla para los usuarios.

RESPIRATORY HEALTH FFP2 Mask

广东医道医疗科技有限公司

Guangdong Yidao Medical Technology Co., Ltd

Guangdong YiDao Medical Technology Co., Ltd, our main products : Why choose us?

1: Real Europe CE with UNIVERSAL Certificate NB2163, test report EN149:2001+A1:2009, which include intact Module B and Module C2.

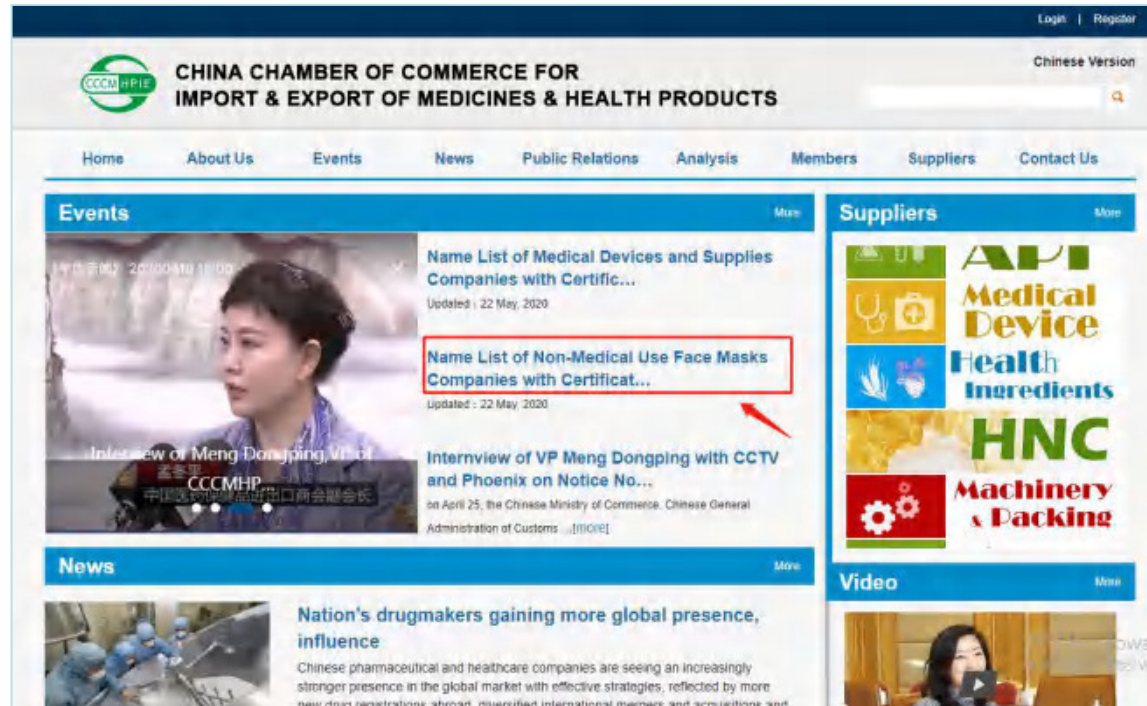
2: Qualified products made by factory which is authorized to export by China's Ministry of Commerce.

3: Output 3 million per day, delivery time very fast.

4: Door to door service is available for us.

White List in CCCM

[China Non Medical Mask White List, http://en.cccmhpie.org.cn](http://en.cccmhpie.org.cn)



70	广东医道医疗科技有限公司 Guangdong Yidao Medical Technology Co., Ltd.	91441900MA54DTP095	CE
----	---	--------------------	----

<http://en.cccmhpie.org.cn/Web/Content.aspx?queryStr=w7x08q7x15x15o3w8w1vS9z8w7x1X10x16x0X10x16o3w8w1u9v1u9v4u9v1>

UNIVERSAL



UNIVERSAL
CERTIFICATION

NB 2163

CERTIFICATE OF CONFORMANCE

Certificate Nr: 2163-PPE-639/01

Respiratory protective devices, filtering half masks to protect against particles manufactured by
Guangdong YIDAO Medical Technology Co., LTD.

at the following manufacturing site
Room 302, Building 2, No. 1, Lane 1, Xiju Road, Hengli, Dongguan City, Guangdong Province,
P. R. CHINA

Continues to fulfil the requirements of

**EN 149:2001 + A1:2009 Respiratory Protective Devices -
Filtering Half Masks to Protect Against Particles -
Requirements, Testing, Marking**

Based on the evaluation of test reports and internal quality control audit reports according to EN 149+A1:2009 and Personal Protective Equipment Regulation (EU) 2016/425 Annex VII (Module C2). This certificate implies that the manufactured products show below are in conformance with the approved EU Type Examination model and meets the requirements of the regulation. The details of compliance is given in technical report numbered 2163-PPE-640/01

Model	Class	EU Type Examination Certificate	
		Serial No.	Date
YD-002	FFP2	2163-PPE-639	28/04/2020

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with:

- Issuing an appropriate EU Declaration of Conformity according to **Personal Protective Equipment Regulation (EU) 2016/425 Annex 9.**
- Taking all measures necessary so that the manufacturing process and its monitoring ensure the homogeneity of production and conformity of the manufactured PPE with the type described in the EU type examination certificate.

This certificate is issued on 28/04/2020 and will be valid for one year, until 27/04/2021 if the manufacturer makes no major change in the product designs and manufacturing processes affecting the product performance on the essential health and safety requirement.



2163



Suz KACMAZ
UNIVERSAL CERTIFICATION
Director



The validity of this certificate can be verified online.

Neçer Fırat Bulvarı Keçiçe Sokak E2 Blok No:404 Yıkatan Daire No:11 - İSTANBUL - TÜRKİYE T: +90 216 455 90 90

UNIVERSALCERT.COM

UNIVERSAL



UNIVERSAL
CERTIFICATION

NB 2163

EU TYPE EXAMINATION CERTIFICATE

Certificate Nr: 2163-PPE-639

Respiratory protective devices, filtering half masks to protect against particles manufactured by
Guangdong YIDAO Medical Technology Co., LTD.

Room 302, Building 2, No. 1, Lane 1, Xiju Road, Hengli, Dongguan City, Guangdong Province, P. R. CHINA

are tested and evaluated according to

EN 149:2001+A1:2009 Respiratory Protective Devices - Filtering Half Masks To Protect Against Particles - Requirements, Testing, Marking

Based on the type examination conducted with the evaluation of test reports, technical file according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 5, it is approved that the product meets the requirements of the regulation. The details of essential requirement compliance is given in technical report numbered 2163-PPE-640.

Product Definition

Brand Name: YPHD **Model:** YD-002

Filtering half mask

Total Inwards Leakage: Class – FFP2

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with:

- Issuing an appropriate EU Declaration of Conformity according to **Personal Protective Equipment Regulation (EU) 2016/425 Annex 9.**
- Ongoing successful performance in fulfillment of the requirements set out in Personal Protective Equipment Regulation (EU) 2016/425 and harmonised standards, ensured by assessments based on Annex 7 (Module C2) or Annex 8 (Module D) of the regulation no later than 1 year from the beginning of serial production

This certificate is initially issued on 28/04/2020 and will be valid for 5 years if there is no change in the relevant harmonised standard affecting the essential health and safety requirements.



2163



Suz KACMAZ
UNIVERSAL CERTIFICATION
Director





The validity of this certificate can be verified online.



Neçer Fırat Bulvarı Keçiçe Sokak E2 Blok No:404 Yıkatan Daire No:11 - İSTANBUL - TÜRKİYE T: +90 216 455 90 90

UNIVERSALCERT.COM

CE 检测报告


EN149 Molude B

 NATIONAL PROTECTIVE TESTING LLC 	
7.11 Flammability (EN 149:2001 + A1:2009 clause 8.6) See tested reference number FT-001	Passed
7.12 Carbon dioxide content of the inhalation air (EN 149:2001 + A1:2009 clause 8.7) See tested reference number CDT-001	Passed
7.13 Head harness (EN 149:2001 + A1:2009 clause 8.4, 8.5) The head harness was designed to allow the particle filtering half-mask to be donned and removed easily during limited practical performance and total inward leakage testing.	Passed
The head harness was adjustable and there were no adverse comments regarding security following limited practical performance and total inward leakage testing.	Passed
The product satisfied the total inward leakage requirements.	Passed
7.14 Field of vision (EN 149:2001 + A1:2009 clause 8.4) There were no adverse comments following practical performance tests.	Passed
7.15 Exhalation Valve (EN 149:2001 + A1:2009 clause 8.2, 8.3.4, 8.8, 8.9.1) Not applicable	N/A
7.16 Breathing Resistance (EN 149:2001 + A1:2009 clause 8.9) See tested reference number BRT-001	Passed
7.17 Clogging (EN 149:2001 + A1:2009 clause 8.9, 8.10) This is optional test and not desired by client.	N/A
7.18 Remountable Parts (EN 149:2001 + A1:2009 clause 8.2) No remountable parts	N/A
8.3 Conditioning See tested reference number CS-001	Passed
Passed	Requirement satisfied.
NCR	Requirement not satisfied. Refer to the "Result details" section for more information.
NAs	Assessment not carried out.
N/A	Requirement not applicable.
Conclusion:	
Model	Recommendation Level
YD-002	FFP2 NR
<p>Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!</p> <p style="text-align: right;">Page 3</p>	
<p>Testing Laboratory: 1306 Colleen Avenue STE 1300, Sheridan, WY, 82801, USA Tel: 307-287-4535 Fax: 307-287-4535 E-mail: md@nptesting.com www.nptesting.com</p>	


 NATIONAL PROTECTIVE TESTING LLC 																
Test Standard:	EN 149:2001+A1:2009 / EN 13274-5:2001															
Name of tests:	Conditioning of Samples															
Reference no:	CS-001															
<p>Simulated wearing treatment Conditioning by simulated wearing treatment has been carried out by the following process. A breathing machine is adjusted to 25 cycles/min and 2.0 l/min. The particle filtering half mask was 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 has been saturated at (37 ± 2) °C at the mouth of the dummy head.</p> <p>In order to prevent excess water spilling out of the dummy's mouth and contaminating the particle filtering half mask the head has been inclined so that the water runs away from the mouth and is collected in a trap. The breathing machine was brought into operation, the saturator switched on and the apparatus allowed to stabilize. The particle filtering half mask under test has then been mounted on the dummy head. During the test time at approximately 20 min intervals the particle filtering half mask has been completely removed from the dummy head and refitted such that during the test period it is fitted ten times to the dummy head.</p> <p>Temperature conditioning Unless otherwise specified, the ambient temperature for testing has been between 16 °C and 32 °C and the temperature (±1) °C has been subject to an accuracy of ±1 °C.</p> <p>In order to ensure that there is no thermal shock during the conditioning of the specimens, the temperature gradient has been less than 2 °C/min between phases at different temperatures, or between the beginning and the end of a thermal cycle.</p> <p>Expose the particle filtering half masks to the following thermal cycle: a) for 24 h to a dry atmosphere of (70 ± 3) °C; b) for 24 h to a temperature of (-30 ± 3) °C, and allow to return to room temperature in a manner which ensures that no thermal shock occurs prior to subsequent testing. The conditioning has been carried out in a manner which ensures that no thermal shock occurs.</p> <p>Mechanical strength The apparatus consists of a steel case (K) which is fixed on a vertically moving piston (S), capable of being lifted up 20 mm by a rotating cam (M) and dropping down onto a steel plate (P) under its own mass as the cam rotates. The mass of the steel case shall be more than 10 kg. The weight of the steel plate onto which the steel case falls should be (at least) 10 times the weight of the steel case. This may be achieved by bolting the base plate to a hard solid floor.</p> <p>Test results: The test results obtained are given in the tables as follows</p> <table border="1"> <thead> <tr> <th>No</th> <th>Conditioning Area</th> <th>Samples Number</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Simulated wearing treatment</td> <td>1-2-3-4-5-6 (As Received)</td> </tr> <tr> <td>2</td> <td>Temperature conditioning</td> <td>7-8-9-10-11-12 (Sample after test of Mechanical Strength)</td> </tr> <tr> <td></td> <td></td> <td>13-14-15-16-17-18-19-20-21-22 (As Received)</td> </tr> <tr> <td>3</td> <td>Mechanical strength</td> <td>7-8-9-10-11-12 (As Received)</td> </tr> </tbody> </table> <p>Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!</p> <p style="text-align: right;">Page 4</p>		No	Conditioning Area	Samples Number	1	Simulated wearing treatment	1-2-3-4-5-6 (As Received)	2	Temperature conditioning	7-8-9-10-11-12 (Sample after test of Mechanical Strength)			13-14-15-16-17-18-19-20-21-22 (As Received)	3	Mechanical strength	7-8-9-10-11-12 (As Received)
No	Conditioning Area	Samples Number														
1	Simulated wearing treatment	1-2-3-4-5-6 (As Received)														
2	Temperature conditioning	7-8-9-10-11-12 (Sample after test of Mechanical Strength)														
		13-14-15-16-17-18-19-20-21-22 (As Received)														
3	Mechanical strength	7-8-9-10-11-12 (As Received)														
<p>Testing Laboratory: 1306 Colleen Avenue STE 1300, Sheridan, WY, 82801, USA Tel: 307-287-4535 Fax: 307-287-4535 E-mail: md@nptesting.com www.nptesting.com</p>																

CE 检测报告

EN149 Molude B



NATIONAL PROTECTIVE TESTING LLC



TEST REPORT

EN 149:2001 + A1:2009

Particle Filtering Half Masks

Client: Guangdong YIDAO Medical Technology Co., LTD.

Manufacturing Address: Room 302, Building 2, No. 1, Lane 1, Xiju Road, Hengli, Dongguan City, Guangdong Province, P.R. CHINA.


Model (s): YD-002 FFP2 NR without valve


Sample received on: April 07, 2020

Report Number: NPT/20040712669

Elaborated by: Ashley Madison

Place and date of issue: Sheridan, WY April 25, 2020






Dr. Joseph Andrew, Ph.D.
Head of Testing Laboratory


Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page | 1

Testing Laboratory: 1309 Coffeen Avenue STE 1200, Sheridan, WY, 82801, USA
Tel: 307-207-4935 Fax: 307-207-4935 E-mail: mdd@nptesting.com www.nptesting.com



NATIONAL PROTECTIVE TESTING LLC



TEST RESULT DETAILS (EN 149:2001 + A1:2009)

7.4 Packaging (EN 149:2001 + A1:2009 clause 8.2) The masks were not packaged as offered for sale. Manufacturer to certify regarding the final packaging to be used.	N/A
The masks were packaged in sealed plastic bags, in larger plastic bags inside a large cardboard box that gave some protection against mechanical damage or contamination before use.	Passed
7.5 Material (EN 149:2001 + A1:2009 clause 8.2, 8.3.1, 8.3.2) The materials used were able to withstand handling and wear during the limited laboratory testing carried out.	Passed
The effect on materials from "in-use" environmental factors could not be evaluated during laboratory tests. Manufacturer to certify regarding such factors.	N/A
Samples were conditioned in accordance with 8.3.1. None of the specimens conditioned suffered mechanical failure or distress.	Passed
Samples were subjected to accelerated ageing with 8.3.2. None of the specimens conditioned suffered mechanical failure or distress.	Passed
7.6 Clearing and Disinfecting (EN 149:2001 + A1:2009 clause 8.4, 8.5, 8.11) 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.	N/A
With reference to 7.9.2, after clearing and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.	
7.7 Practical Performance (EN 149:2001 + A1:2009 clause 8.4) See tested reference number PPT-001	Passed
7.8 Finish of Parts (EN 149:2001 + A1:2009 clause 8.2) None of the specimens used in laboratory testing showed evidence of sharp edges or burrs.	Passed
7.9.1 Total inward Leakage (EN 149:2001 + A1:2009 clause 8.5) See tested reference number TIL-001	Passed
7.9.2.a Penetration of Filter Material-Sodium Chloride (EN 149:2001 + A1:2009 clause 8.11 & EN 13274-7:2019) See tested reference number SCT-001	Passed
7.9.2.b Penetration of Filter Material-Paraffin Oil (EN 149:2001 + A1:2009 clause 8.11 & EN 13274-7:2019) See tested reference number POT-001	Passed
7.10 Compatibility with skin (EN 149:2001 + A1:2009 clause 8.4, 8.5) No problems were encountered during medical performance testing.	Passed
No problems were encountered during total inward leakage testing.	Passed
The suitability of materials in contact with the skin causing irritation or other adverse effect on health was not assessed. Manufacturer to certify.	N/A


Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page | 2


Testing Laboratory: 1309 Coffeen Avenue STE 1200, Sheridan, WY, 82801, USA
Tel: 307-207-4935 Fax: 307-207-4935 E-mail: mdd@nptesting.com www.nptesting.com

CE 检测报告

EN149 Molude B



NATIONAL PROTECTIVE TESTING LLC
ESTABLISHED 2004



Test Standard: EN 149:2001+A1:2009 / EN 13274-2:2001
Name of tests: Practical Performance Testing
Reference no: PPT-001

Test Purpose:
 This test method is used to determine practical performance when its purpose is fitted by subjects during use in the simulated application. It subjectively evaluates certain features, characteristics and functions of the device that cannot be evaluated by experiments described in other standards.

Sampling method:
 A total of two particle filtering half masks have been tested: two in the state as received.

Testing methods used:
 A test method for determining practical performance in accordance with standard EN 13274-2:2001 + EN 149:2001 + A1:2009 clause 7.7B.4

Test conditions:
 The test has been carried out in a normally fit area with a temperature of 16 °C to 32 °C and a relative humidity of 30% to 80%. The actual temperature and humidity conditions and noise level have been recorded.

Test Principle:
 A total of 2 particle filtering half masks have been tested: both as received. All tests have been carried out by two test subjects at ambient temperature and the test temperature and humidity have been recorded. Prior to the test there has been an examination to ensure that the particle filtering half mask is in good working condition and that it can be used without hazard. For the test, persons have been selected who are familiar with using such or similar equipment.

Test Equipment:
 A small basket (approximate volume = 8 l) with chippings or other suitable material from a hopper.

Test Procedure:
General: During the tests the particle filtering half mask shall be subjectively assessed by the wearer and the test comments on the following shall be recorded: a) head harness comfort; b) security of fastenings; c) fit of mask; or any other comments reported by the wearer on request.

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.


Work simulation test: The particle filtering half mask shall be tested under conditions which can be expected during normal use. During this test the following activities shall be carried out in simulation of the practical use of the particle filtering half mask. The test shall be completed within a total working time of 20 min. The sequence of activities is at the discretion of the test house. The individual activities shall be arranged so that sufficient time is left for the comments prescribed.

- walking on the level with headroom of (1,3 ± 0,2) m for 5 min;
- walking on the level with headroom of (0,70 ± 0,05) m for 5 min;
- 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. 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.


Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page | 6

Testing Laboratory: 1309 Colfeen Avenue STE 1200, Sheridan, WY, 82801, USA
 Tel: 307-207-4635 Fax: 307-207-4635 E-mail: mdd@nptesting.com www.nptesting.com



NATIONAL PROTECTIVE TESTING LLC
ESTABLISHED 2004



Test results:
 The test results obtained are given in the tables as follows

Number of sample: 39 (A/R), 40 (A/R)

Assessed elements	Positive Assessment	Negative Assessment	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
1. The face piece fit	2	0	Filtering half masks should not have imperfections related to wearer's acceptance.	Filtering half masks test requirements of the standard EN 149:2001 + A1:2009 given in 7.7
2. Head harness comfort	2	0		
3. Security of fastenings	2	0		
4. Speech clarity	2	0		
5. Field of vision	2	0		
6. Materials compatibility with skin	2	0		
				No imperfections


Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page | 6

Testing Laboratory: 1309 Colfeen Avenue STE 1200, Sheridan, WY, 82801, USA
 Tel: 307-207-4635 Fax: 307-207-4635 E-mail: mdd@nptesting.com www.nptesting.com


CE 检测报告

EN149 Molude B



NATIONAL PROTECTIVE TESTING LLC

1300 Coffeen Avenue STE 1200, Sheridan, WY, 82801, USA



Test Standard: EN 149:2001+A1:2009 / EN 13274-1:2001
Name of tests: Total Inward Leakage Testing
Reference no: TIL-001

Test Purpose:
 This test method is used to determine the total inward leakage in respiratory protective devices.

Sampling method:
 A total of ten particle filtering half masks have been tested: five in the state as received and five after temperature conditioning.

Testing methods used:
 A test method for determining total inward leakage in accordance with standard EN 13274-1:2001 + EN 149:2001 + A1:2009 clause 7.9.1/8.5.

Test conditions:
 The five test samples were conditioned in accordance with temperature conditioning.

Test Principle:
 The total inward leakage has been tested using sodium chloride aerosol. Prior to the test there has been an examination to ensure that the particle filtering half mask is in good working condition and that it can be used without hazard. For the test, persons has been selected who are familiar with using such or similar equipment. A panel of ten clean-shaven persons (without beards or sideburns) has been selected covering the spectrum of facial characteristics of typical users (excluding significant abnormalities). It is to be expected that exceptionally some persons cannot be satisfactorily fitted with a particle filtering half mask. Such exceptional subjects has not been used for testing particle filtering half masks.

Test Equipment:
 The test atmosphere shall preferably enter the top of the enclosure through a flow distributor, and be directed downwards over the head of the test subject at a minimum flow rate of 0,12 m/s. The concentration of the test agent in the effective working volume shall be checked to be homogeneous. The flow rate should be measured close to the subject's head. A level treadmill is required capable of working at 5 km/h.

Test Procedure:
 Ask the test subjects to read the manufacturer's fitting information and if more than one size of particle filtering half mask is manufactured, ask the test subject to select the size deemed by him to be the most appropriate. If necessary the test supervisor shall show the test subjects how to fit the particle filtering half mask correctly in accordance with the fitting information. Inform the test subjects that if they wish to adjust the particle filter by themselves, during the test they may do so. However if this is done, repeat the relevant section of the test, having allowed the system to settle. The test subjects shall have no indication of the results as the test proceeds.

After fitting the particle filtering half mask, ask each test subject 'Does the mask fit?' If the answer is 'Yes', continue the test. If the answer is 'No', take the test subject off the panel, report the fact and replace with another test subject.

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page | 7

Testing Laboratory: 1300 Coffeen Avenue STE 1200, Sheridan, WY, 82801, USA
 Tel:307-207-4536 Fax: 307-207-4536 E-mail: mdd@nptesting.com www.nptesting.com



NATIONAL PROTECTIVE TESTING LLC

1300 Coffeen Avenue STE 1200, Sheridan, WY, 82801, USA



Test results:
 The test results obtained are given in the tables as follows:

Test Subject	No of sample	Cond.	T. Walk (%)	Head side/ side (%)	Head up/down (%)	Talk (%)	Z. Walk (%)	Mean (%)
1	32	A.R	4,93	5,21	4,88	5,10	4,77	4,96
2	33	A.R	4,96	5,32	4,80	5,41	4,79	5,07
3	34	A.R	4,86	5,62	4,95	5,68	4,91	5,20
4	35	A.R	4,77	5,56	4,75	5,30	4,66	5,01
5	36	A.R	4,82	5,52	4,77	5,65	4,72	5,10
6	16	T.C.	5,11	5,41	5,11	5,34	5,10	5,21
7	17	T.C.	5,25	5,49	5,25	5,49	5,15	5,33
8	18	T.C.	5,29	4,32	5,16	5,34	5,16	5,05
9	19	T.C.	5,34	5,22	5,35	5,42	5,21	5,31
10	20	T.C.	5,24	5,32	5,37	5,38	5,26	5,31

Maximum possible: All individual exercise results were not greater than 11 % Not greater than 8%

Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity/ Nonconformity
at least 46 out of the 50 individual results shall be not greater than 25 % for FFP1 11 % for FFP2 5 % for FFP3 and at least 8 out of the 10 individual wearer means shall be not greater than 22 % for FFP1 8 % for FFP2 2 % for FFP3	Passed Filtering half masks fulfil requirements of the standard EN 149:2001 + A1:2009 given in 7.9.1 in range of the first, the second and the third protection class (FFP1, FFP2, FFP3)


Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page | 8


Testing Laboratory: 1300 Coffeen Avenue STE 1200, Sheridan, WY, 82801, USA
 Tel:307-207-4536 Fax: 307-207-4536 E-mail: mdd@nptesting.com www.nptesting.com

CE 检测报告

EN149 Molude B



NATIONAL PROTECTIVE TESTING LLC
1309 Colleen Avenue STE 1200, Sheridan, WY, 82801, USA



Test Standard: EN 149:2001+A1:2009 / EN 13274-7:2019
Name of tests: Penetration of filter material Sodium Chloride Testing
Reference no: SCT-001

Test Purpose:
 This test method is used to measure that the penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1 in 7.9.2.

Sampling method:
 A total of nine particle filtering half masks have been tested: three in the state as received, three the simulated wearing treatment and three samples after the mechanical strength test and temperature conditioning.

Testing methods used:
 A test method for determining penetration of filter material sodium chloride testing in accordance with standard EN 13274-7:2019 / EN 149:2001 + A1:2009 clause 7.9.2

Test conditions:
 The six test samples were conditioned in accordance with mechanical strength test and temperature conditioning, simulated wearing treatment.

Test Principle:
 The Sodium Chloride Aerosol Challenge test is able to determine filtration efficiency measurements up to 99.999% L. The sample is placed into the filter holder. Cone or molded masks and respirators are mounted to a test fixture and sealed into a cylinder filter holder to ensure that the mask is properly sealed. Samples are subjected to aerosolized NaCl. The concentration of NaCl is measured before and after impact with the sample. The amount of NaCl that passes through the sample is used to calculate the filtration efficiency of the sample.

Test Equipment:
 The test equipment consists four modules sodium chloride aerosol generator flow control, filter test chamber, flame photometer aerosol detector. Sodium chloride aerosol is detected before and after the filtering device under test by flame photometry.

Test Procedure:
 The device shall be mounted in a leak tight 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 not exposed to the challenge aerosol. In order to carry out tests on the filtration efficiency of the filter material against particulates, a 100% NaCl aerosol is used on demineralized water is used. From the above solution using a Colloidal atomizer, an aerosol is generated with a particle diameter of 0.5µm and an average concentration of 8 mg / m3. The aerosol is passed through the tested complete filtering half mask, sealed in the test chamber, with an air flow rate of 95 l / min. The test aerosol concentration is determined before and after the test sample using flame photometry. Comparison of determined concentrations allows to determine the filtration efficiency of the tested sample in the range from 0.00001% to 100%.


Test results:
 The test results obtained are given in the tables as follows

No. of Sample	Condition	Penetration of Sodium Chloride in accordance with EN 13274-7:2019 (%) Flow rate 95 l/min	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
23	As received	3.62	FFP1 ≤ 20 % FFP2 ≤ 6 % FFP3 ≤ 1 %	Filtering half masks fulfil the requirements of the standard EN 149:2001+A1:2009 given in 7.9.2 in range of the first and the second protection class (FFP1, FFP2)
24		3.70		
25		3.90		
1	Simulated wearing treatment	4.14		
2		4.16		
3		4.25		
4	Mechanical strength + Temperature conditioned	4.45		
5		4.78		
6		4.89		


Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page 11

Testing Laboratory: 1309 Colleen Avenue STE 1200, Sheridan, WY, 82801, USA
Tel.: 307-207-4535 Fax: 307-207-4536 E-mail: npt@nptesting.com www.nptesting.com
Testing Laboratory: 1309 Colleen Avenue STE 1200, Sheridan, WY, 82801, USA
Tel.: 307-207-4535 Fax: 307-207-4536 E-mail: npt@nptesting.com www.nptesting.com



NATIONAL PROTECTIVE TESTING LLC
1309 Colleen Avenue STE 1200, Sheridan, WY, 82801, USA



Test Standard: EN 149:2001+A1:2009 / EN 13274-7:2019
Name of tests: Penetration of filter material Paraffin Oil Testing
Reference no: POT-001

Test Purpose:
 The test method is used to measure that the penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1 in 7.9.2.

Sampling method:
 A total of nine particle filtering half masks have been tested: three in the state as received, three the simulated wearing treatment and three samples after the mechanical strength test and temperature conditioning.

Testing methods used:
 A test method for determining penetration of filter material sodium chloride testing in accordance with standard EN 13274-7:2019 / EN 149:2001 + A1:2009 clause 7.9.2

Test conditions:
 The six test samples were conditioned in accordance with mechanical strength test and temperature conditioning, simulated wearing treatment.

Test Principle:
 An aerosol of paraffin oil is generated by atomising paraffin oil. The concentration of this aerosol is measured before and after the filter under test by means of a light scattering aerosol photometer. Determinations have been possible in the range < 0.0001% to 100% filter penetration.

Test Equipment:
 The test equipment consists four modules paraffin oil mist aerosol generator flow control, filter test chamber, scattered light aerosol detector. The aerosol mass concentration and particle size distribution has been measured within the filter test chamber.

Test Procedure:
 Tests on the efficiency of filtration against liquid particles are carried out using a paraffin oil mist generated using a CP 27 DAB paraffin oil atomizer heated to 100°C. The liquid aerosol thus generated has an average concentration of 20 mg / m3 and an average particle diameter of 400 nm. The aerosol thus generated is passed through the tested complete filtering half mask, sealed in the test chamber, with an air flow rate of 95 l / min. The concentration of the test aerosol before and after the sample is determined by means of laser photometry. Comparison of determined concentrations allows to determine the filtration efficiency test sample for liquid aerosols in the concentration range from 0.0001% to 100%.

Test results:
 The test results obtained are given in the tables as follows

No. of Sample	Condition	Penetration of Paraffin Oil Mist in accordance with EN 13274-7:2019 (%) Flow rate 95 l/min	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
26	As received	4.27	FFP1 ≤ 20 % FFP2 ≤ 6 % FFP3 ≤ 1 %	Filtering half masks fulfil the requirements of the standard EN 149:2001+A1:2009 given in 7.9.2 in range of the first and the second protection class (FFP1, FFP2)
27		4.20		
28		4.16		
1	Simulated wearing treatment	3.94		
2		3.83		
3		3.76		
4	Mechanical strength + Temperature conditioned	4.26		
5		4.27		
6		4.35		


Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page 11

Testing Laboratory: 1309 Colleen Avenue STE 1200, Sheridan, WY, 82801, USA
Tel.: 307-207-4535 Fax: 307-207-4536 E-mail: npt@nptesting.com www.nptesting.com
Testing Laboratory: 1309 Colleen Avenue STE 1200, Sheridan, WY, 82801, USA
Tel.: 307-207-4535 Fax: 307-207-4536 E-mail: npt@nptesting.com www.nptesting.com


CE 检测报告

EN149 Molude B



NATIONAL PROTECTIVE TESTING LLC

National Protective Testing
LLC
1300 Colleen Avenue
Sheridan, WY 82801, USA
Tel: 307-307-4525 Fax: 307-307-4525 E-mail: npt@nptesting.com www.nptesting.com



Test Standard: EN 149:2001+A1:2009 / EN 13274-4:2001
Name of tests: Flammability Testing
Reference no: FT-001

Test Purpose:
 This test method is used to measure that the materials used in the device are not dangerous for the person using the device and do not possess highly flammable nature.

Sampling method:
 A total of four particle filtering half masks have been tested, two in the state as received and two after temperature conditioning.

Testing methods used:
 A test method for determining Flammability in accordance with standard EN 13274-4:2001 + EN 149:2001 + A1:2009 clause 7.11B.5.

Test conditions:
 The two test samples were conditioned in accordance with temperature conditioning.

Test Principle:
 The filtering face pieces subjected to the test, are passed one by one through a flame with a temperature of 800°C +/- 50°C and at a speed of 8 cm/s. The respirators must not go on burning for more than 5 s after removal from the flame.

Test Equipment:
 The test rig consists mainly of a propane cylinder with flow control device, pressure gauge, flash back arrester, specimen support, rotation motor with speed controller, and burner. The burner has been either be in accordance with 62 or with ISO 8941. The purity of the propane has been a minimum of 95 %.

Test Procedure:
 The face piece 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 (60 ± 5) mm/s. 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 face piece (when positioned directly over the burner) shall be set to (20 ± 2) mm.

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 adjustment in the test rig, the pressure, the flame height had been set to (40 ± 4) mm. This is measured with a suitable gauge.

The temperature of the flame measured at a height of (20 ± 2) mm above the burner, by means of a Pt100 platinum/mineral insulated thermocouple probe, shall be (800 ± 50) °C. Failure to reach this temperature requirement indicates that a fault such as a partially blocked burner exists. This had been rectified before testing, the head is set in motion and the effect of passing the face piece once through the flame has been noted.


The test has been repeated to enable an assessment to be made of all materials on the exterior of the device. Any one component has been passed through the flame once only.

Test results:
 The test results obtained are given in the tables as follows

No. of Samples	Condition	Visual Inspection	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
32	As received	1,4	Filtering half mask shall not burn or not continue to burn for more than 5 s after removal from the flame	Filtering half masks fulfil requirements of the standard EN 149:2001 + A1:2009 given in 7.1
33		1,3		
21	Temperature conditioned	1,2		
22	1,1			


Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page | 11



NATIONAL PROTECTIVE TESTING LLC

National Protective Testing
LLC
1300 Colleen Avenue
Sheridan, WY 82801, USA
Tel: 307-307-4525 Fax: 307-307-4525 E-mail: npt@nptesting.com www.nptesting.com



Test Standard: EN 149:2001+A1:2009 / EN 13274-6:2001
Name of tests: Carbon dioxide content of the inhalation air Testing
Reference no: COT-001

Test Purpose:
 This test method is used to determine carbon dioxide content of the inhalation air.

Sampling method:
 A total of three particle filtering half masks have been tested, all three in the state as received.

Testing methods used:
 A test method for determining carbon dioxide content of the inhalation air in accordance with standard EN 13274-6:2001 + EN 149:2001 + A1:2009 clause 7.12B.7.

Test conditions:
 The atmosphere where the temperature is from 16 °C to 32 °C and the relative humidity is 20% to 95%.

Test Principle:
 The device is attached to the Sheffield mannequin head / body as described in the device standard. In the case of complete hardware testing, an respiratory is operated under the manufacturer's lowest conditions, unless otherwise specified in the relevant standard, and containing carbon dioxide at a certain concentration is supplied from the respirator to the mannequin head. The inhaled air is analysed for its carbon dioxide content. The measured carbon dioxide level provides information on the assessment of the "dead volume" of the facial protective equipment, and a great measure of the carbon dioxide level in the inhaled air.

Test Equipment:
 The test rig consists breathing apparatus, Auxiliary lung, Solenoid valve, Sheffield Mannequin head, Non-return valve, Sampling pipe for breathing air, Flow meter, Carbon dioxide absorber, Breinair, Carbon dioxide supply, Carbon dioxide analyzer.

Test Procedure:
 The apparatus subjects the particle filtering half mask to a respiration cycle by the breathing machine. For this test the particle filtering half mask has been fitted exactly in a leak-tight manner but without deformation to a Sheffield dummy head. Air has been supplied to it from a breathing machine adjusted to 25 cycles/min and 2.0 l/min and the exhaled air has a carbon dioxide content of 5 % by volume. If the design of the test equipment causes a CO2 build-up a CO2 absorber has been used in the inhalation branch between solenoid valve and breathing machine. The CO2 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 thus fed into the exhaled air via a CO2 analyser.

To measure the CO2 content of the inhaled air, 5 % of the stroke volume of the inhalation phase of the breathing machine is drawn off at the marked place by an auxiliary lung and fed to a CO2 analyser. The total dead space of the gas path (excluding the breathing machine) of the test installation should not exceed 2000 ml. Measure the carbon dioxide content of the inhaled air and record continuously. Test conditions are ambient atmospheric conditions. The ambient carbon dioxide level is measured 1 m in front of and level with the tips of the nose of the dummy head. The ambient level is measured once a stabilized level for carbon dioxide in the inhalation air has been attained. Alternatively, the ambient level of carbon dioxide may be measured at the sampling tube with the carbon dioxide supply turned off. Results are deemed acceptable only if the measured value of the ambient level of carbon dioxide is less than 0,1 %.

Test results:
 The test results obtained are given in the tables as follows

No. of Samples	Condition	CO ₂ content of the inhalation air [%] by volume	An average CO ₂ content of the inhalation air [%] by volume	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
41	As received	0,01	0,09	CO ₂ content of the inhalation air shall not exceed an average of 1,0% by volume	Filtering half masks fulfil requirements of the standard EN 149:2001 + A1:2009 given in 7.12
42		0,03			
43		0,02			


Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page | 12


GUANGDONG VIDIA

CE 检测报告

EN149 Molude B



NATIONAL PROTECTIVE TESTING LLC
1300 COFFEEN AVENUE STE 1200 SHERIDAN, WY 82801, USA



Test Standard: EN 149:2001+A1:2009 / EN 13274-3:2001
Name of tests: Breathing Resistance Testing-Inhalation/Exhalation Resistance
Reference no: BRT-001

Test Purpose:
 This test method is used to measure the inhalation and exhalation resistance values.

Sampling method:
 A total of nine particle filtering half masks have been tested: three in the state as received, three the simulated wearing treatment and three samples after the temperature conditioning.

Testing methods used:
 A test method for determining inhalation and exhalation resistance testing in accordance with standard EN 13274-3:2001 / EN 149:2001 + A1:2009 clause 7.16

Test conditions:
 The six test samples were conditioned in accordance with temperature conditioning and simulated wearing treatment.

Test Principle:
 The device is placed on a support as specified in the relevant device standard and connected to the respirator adjusted to the respiratory volume at the specified minute. While respiratory resistance is reported; if the pressure inside the facial part is negative compared to atmospheric pressure during the inhalation resistance test, no sign is put in front of the result, and when the relative pressure inside the face protector is positive, a "+" sign is placed in front of the result.


Test Equipment:
 A sinus-shaped breathing apparatus. Device support as described in the relevant device standard, for example, Sheffield mannequin head with attachments or mannequin body with attachments. Calibrated within the appropriate range and the accuracy of the breathing resistance limit specified in the relevant device standard pressure gauge which is better than 10% of its value.

Test Procedure:
 The respirator is adjusted in accordance with its shape to deliver the respiratory volume in the minute specified in the relevant device standard. One mouth of the pressure meter is connected to the pressure mouth of the support of the device and the other mouth is the environment. The pressure gauge is connected to the recorder device. The device is leakproofly mounted on the support without any deformity. For headgear that seal in the neck circumference, the relevant fitting should be used. The "zero" reading of the pressure gauge is noted. The breathing machine switch is opened and the device is operated as described in the relevant device standard and the peak pressure is recorded.


Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page | 13

Testing Laboratory: 1300 Coffeen Avenue STE 1200, Sheridan, WY, 82801, USA
 Tel:307-207-4635 Fax: 307-207-4635 E-mail: npt@nptesting.com www.nptesting.com



NATIONAL PROTECTIVE TESTING LLC
1300 COFFEEN AVENUE STE 1200 SHERIDAN, WY 82801, USA



Test results:
 The test results obtained are given in the tables as follows

Inhalation Resistance

No. of Sample	Condition	Inhalation Resistance (amber)				Assessment of Test Result Conformity / Nonconformity
		Flow rate 30 l/min	Requirements in accordance with EN 149:2001+A1:2009	Flow rate 90 l/min	Requirements in accordance with EN 149:2001+A1:2009	
29	As received	0,5	FFP1 ≤ 0,60	1,5	FFP1 ≤ 2,10	Passed
30		0,4		1,3		Passed
31		0,5		1,6		Passed
1	Simulated wearing treatment	0,5	FFP2 ≤ 0,70	1,4	FFP2 ≤ 2,40	Passed
2		0,6		1,5		Passed
3		0,5		1,4		Passed
13	Temperature conditioned	0,5	FFP3 ≤ 1,0	1,6	FFP3 ≤ 3,00	Passed
14		0,5		1,7		Passed
15		0,5		1,7		Passed

Exhalation Resistance

No. of Sample	Condition	Flow rate	Exhalation Resistance (mmbar)				Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity	
			Facing directly	Facing vertically upwards	Facing vertically downwards	Lying on the left side			Lying on the right side
29	As received	100 l/min	2,2	2,1	2,1	2,3	2,0	FFP1 ≤ 3,0	Passed
30			2,0	2,0	2,1	2,0	2,4		Passed
31			2,2	2,1	1,9	2,1	2,0		Passed
1	Simulated wearing treatment	100 l/min	2,2	2,2	2,0	2,3	2,4	FFP2 ≤ 3,0	Passed
2			2,0	2,3	2,0	2,0	2,2		Passed
3			2,1	2,3	2,0	2,1	2,1		Passed
13	Temperature conditioned	100 l/min	2,0	2,4	2,4	2,2	2,3	FFP3 ≤ 3,0	Passed
14			2,1	2,2	2,1	2,2	2,1		Passed
15			2,0	2,1	1,9	2,0	2,0		Passed

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Page | 14

Testing Laboratory: 1300 Coffeen Avenue STE 1200, Sheridan, WY, 82801, USA
 Tel:307-207-4635 Fax: 307-207-4635 E-mail: npt@nptesting.com www.nptesting.com

CE 检测报告

EN149 Molude C2



TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO: 28.04.2020 / 2163-PPE-640

Client: Guangdong YIDAO Medical Technology Co., LTD.
Address: Room 302, Building 2, No. 1, Lane 1, Xipu Road, Dongli, Dongguan City, Guangdong Province, P.R. CHINA

This report is for the, given above, manufacturer prepared according to the test results obtained for the product dated 25.04.2020 with ID: 04-2020-T-053 based on EN 149: 2001 + A1: 2009 standard. The technical file of the manufacturer, and risk evaluation against the essential health safety requirements and the test report evaluated for their relation with Essential Requirements of Personal Protective Equipment Regulation and found to be appropriate.

This report is an annex and an integral part of the EU Type Examination Certificate No. 2163 - PPE - 639 issued to the manufacturer. The test results and issued certificate belongs only to the tested model. The technical report consists of a total of 7 pages.

Product Description : Particle Filtering Half Mask
Total Inward Leakage Classification - FFP2
Trademark : YIDAO
Model : YD-002



THE CLAUSES OF EN 149: 2001 + A1: 2009 STANDARD RELATED TO EUROPEAN UNION DIRECTIVE EU 2016/425 REQUIREMENTS

1.1. Design principles

1.1.1. Ergonomics

PPE must be so designed and manufactured that in the foreseeable conditions of use for which it is intended the user can perform the risk related activity normally whilst enjoying appropriate protection of the highest possible level.

1.1.2. Levels and classes of protection

1.1.2.1. Highest level of protection possible

The optimum level of protection to be taken into account in the design is that beyond which the constraints by the wearing of the PPE would prevent its effective use during the period of exposure to the risk or neutral performance of the activity.

1.1.2.2. Classes of protection appropriate to different levels of risk

Where differing foreseeable conditions of use are such that several levels of the same risk can be distinguished, appropriate classes of protection must be taken into account in the design of the PPE.

1.1.3. Incompatibility of PPE

1.1.3.1. Absence of risk and/or other adverse outcome factors

PPE must be designed and manufactured as to preclude risks and other adverse factors under foreseeable conditions of use.

1.1.3.2. Suitable adjustment materials

The materials of which the PPE is made, including any of their possible decomposition products, must not adversely affect the health or safety of users.

1.1.3.3. Satisfactory surface condition of all PPE parts in contact with the user

Any part of the PPE that is in contact or is liable to come into contact with the user when the PPE is worn must be free of rough surfaces, sharp edges, sharp points and the like which could cause excessive irritation or injuries.

1.1.3.4. Maximum permissible user impediment

Any impediment caused by PPE to movements to be made, postures to be adopted and sensory perception must be minimized; nor must PPE cause movements which endanger the user or other persons.

1.2. Comfort and effectiveness

1.2.1. Adaptation of PPE to user morphology

PPE must be designed and manufactured in such a way as to facilitate its correct positioning on the user and to remain in place for the foreseeable period of use, bearing in mind ambient factors, the actions to be carried out and the postures to be adopted. For this purpose, it must be possible to adapt the PPE to fit the morphology of the user by all appropriate means, such as adequate adjustment and attachment systems or the provision of an adequate range of sizes.

1.2.2. Lightness and design strength

PPE must be as light as possible without prejudicing design strength and efficiency.

Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3), PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use.

1.4. Information supplied by the manufacturer

The notes that must be drawn up by the former and supplied when PPE is placed on the market must contain all relevant information on:

- In addition to the name and address of the manufacturer and/or his authorized representative established in the Community
- Storage, use, cleaning, maintenance, servicing and disinfection, cleaning, maintenance or disinfection protection recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;
- Performance as required during technical tests to check the levels or classes of protection provided by the PPE in question;
- Suitable PPE accessories and the characteristics of appropriate spare parts;
- The classes of protection appropriate to different levels of risk and the corresponding limits of use;
- The obsolescence deadline/period of obsolescence of PPE or certain of its components;
- The type of packaging suitable for transport;
- The significance of any markings (see 2.12);
- Where appropriate the references of the Directives applied in accordance with Article 5(6) (b);
- The name, address and identification number of the notified body involved in the design stage of the PPE

These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the member state of destination



CE 检测报告

EN149 Molude C2



2. ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.1. PPE incorporating adjustment systems

If PPE incorporates adjustment systems, the latter must be designed and manufactured so that, after adjustment, they do not become useless unintentionally in the foreseeable conditions of use.

2.2. PPE for the face, eyes and respiratory system

Any restriction of the user's face, eyes, field of vision or respiratory system by the PPE shall be minimised.

The screens for those types of PPE must have a degree of optical neutrality that is compatible with the degree of precision and the duration of the activities of the user.

If necessary, such PPE must be treated or provided with means to prevent misting-up.

Models of PPE intended for users requiring slight corrections must be compatible with the wearing of spectacles or contact lenses.

2.3. PPE subject to ageing

If it is known that the design performance of new PPE may be significantly affected by ageing, the month and year of manufacture and/or, if possible, the month and year of obsolescence must be indelibly and unambiguously marked on each item of PPE placed on the market and on its packaging.

If the manufacturer is unable to give an undertaking with regard to the useful life of the PPE, his instructions must provide all the information necessary to enable the purchaser or user to establish a reasonable obsolescence month and year, taking into account the quality level of the model and the effective conditions of storage, use, cleaning, servicing and maintenance.

Where appreciable and rapid deterioration in PPE performance is likely to be caused by ageing resulting from the periodic use of a cleaning process recommended by the manufacturer, the latter must, if possible, affix a marking to each item of PPE placed on the market indicating the maximum number of cleaning operations that may be carried out before the equipment needs to be inspected or discarded. Where such a marking is not affixed, the manufacturer must give that information in his instructions.

2.4. PPE for use in potentially explosive atmospheres

PPE intended for use in potentially explosive atmospheres must be designed and manufactured in such a way that it cannot be the source of an electric, electrostatic or impact-induced arc or spark likely to cause an explosive mixture to ignite.

2.5. PPE for intervention in very dangerous situations

The instructions supplied by the manufacturer with PPE for intervention in very dangerous situations must include, in particular, data identifying competent, trained persons who are qualified to interpret them and ensure their application by the user. The instructions must also describe the procedure to be adopted in order to verify that PPE is correctly adjusted and fastened when worn by the user. Where PPE incorporates an alarm which is activated in the absence of the level of protection normally provided, the alarm must be deactivatable and so that it can be perceived by the user in the foreseeable conditions of use.

2.6. PPE incorporating components which can be adjusted or removed by the user

Where PPE incorporates components which can be attached, adjusted or removed by the user, such components must be designed and manufactured so that they can be easily attached, adjusted and removed without tools.

2.7. PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

The identification or recognition marks directly or indirectly relating to health and safety (other than those types of classes of PPE which must preferably take the form of harmonized pictograms of ideograms and must remain perfectly legible throughout the foreseeable useful life of the PPE. In addition, these marks must be complex, precise and comprehensible so as to prevent any misinterpretation; in particular, where such marks incorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.

If PPE (or a PPE component) is too small to allow all or part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

3. ADDITIONAL REQUIREMENTS SPECIFIC TO PARTICULAR RISKS

3.19.2. Protection against cutaneous and ocular contact

PPE intended to prevent the surface contact of all or part of the body with substances and mixtures which are hazardous to health or with harmful biological agents must be capable of preventing the penetration or permeation of such substances and mixtures and agents through the protective equipment under the foreseeable conditions of use for which the PPE is intended.

To this end, the constituent materials and other components of these types of PPE must be chosen or developed and incorporated so as to ensure, as far as possible, complete leak-tightness, which will allow where necessary prolonged daily use or, failing this, limited leak-tightness necessitating a restriction of the period of wear.

Where, by virtue of their nature and the foreseeable conditions of their use, certain substances and mixtures which are hazardous to health or harmful biological agents possess high penetrative power which limits the duration of the protection provided by the PPE in question, the latter must be subjected to standard tests with a view to their classification on the basis of their performance. PPE which is considered to be in conformity with the test specifications must bear a marking indicating, in particular, the names or, in the absence of the names, the codes of the substances used in the tests and the corresponding standard period of protection. The manufacturer's instructions must also contain, in particular, an explanation of the codes (if necessary), a detailed description of the standard tests and all appropriate information for the determination of the maximum permissible period of wear under the different foreseeable conditions of use.



Technical Assessment of EN 149:2001 + A1:2009 Standard and other Standards it refers to, Clauses Corresponding to the (EU) 2016/425 Directive

Conforming to EN 149:2001 + A1:2009 Standard Requirements

Article	Classification : Particle Filtering Half Mask Test Method Leakage Classification - FFP2																																																																																																																														
5	Classification : Particle Filtering Half Mask Test Method Leakage Classification - FFP2																																																																																																																														
7.1	Packing: Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to prevent mechanical damage.																																																																																																																														
7.5	Materials: Materials used in particle filtering half masks, according to the simulated wearing treatment and temperature conditioning reports, it is understood without handling and wear over the period for which the particle filtering half mask is designed to be used, suffered mechanical failure of the facepiece or straps, any material from the filter media released by the air flow through the filter has not constituted a hazard or nuisance for the wearer.																																																																																																																														
3.6	Clause 3.6 Disinfection: Particle filtering half mask is not designed to be as-reusable																																																																																																																														
Permitted Performance:																																																																																																																															
<table border="1"> <thead> <tr> <th>Assessed Elements</th> <th>Positive</th> <th>Negative</th> <th>Requirements in accordance with EN 149:2001 + A1:2009 and Result</th> </tr> </thead> <tbody> <tr> <td>1. The face piece fitting</td> <td>2</td> <td>0</td> <td rowspan="6">Positive results should be obtained from the performance tests related to the implementation under test conditions. No imperfections</td> </tr> <tr> <td>2. Head harness comfort</td> <td>1</td> <td>0</td> </tr> <tr> <td>3. Security of fastenings</td> <td>1</td> <td>0</td> </tr> <tr> <td>4. Speech clarity</td> <td>2</td> <td>0</td> </tr> <tr> <td>5. Field of vision</td> <td>2</td> <td>0</td> </tr> <tr> <td>6. Materials compatibility with dust</td> <td>2</td> <td>0</td> </tr> </tbody> </table>		Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result	1. The face piece fitting	2	0	Positive results should be obtained from the performance tests related to the implementation under test conditions. No imperfections	2. Head harness comfort	1	0	3. Security of fastenings	1	0	4. Speech clarity	2	0	5. Field of vision	2	0	6. Materials compatibility with dust	2	0																																																																																																							
Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result																																																																																																																												
1. The face piece fitting	2	0	Positive results should be obtained from the performance tests related to the implementation under test conditions. No imperfections																																																																																																																												
2. Head harness comfort	1	0																																																																																																																													
3. Security of fastenings	1	0																																																																																																																													
4. Speech clarity	2	0																																																																																																																													
5. Field of vision	2	0																																																																																																																													
6. Materials compatibility with dust	2	0																																																																																																																													
Conditioning: (A.R.) As Received, original																																																																																																																															
7.8	Flank of Parts: Particle filtering half masks, which are likely to come into contact with the user, do not have sharp edges and do not contain burrs.																																																																																																																														
Total Inward Leakage:																																																																																																																															
<table border="1"> <thead> <tr> <th>Test Subject</th> <th>No. of sample</th> <th>Condition</th> <th>1.Walk</th> <th>Head left Tight</th> <th>Head up-down</th> <th>Speech</th> <th>2.Walk</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>22</td> <td>A.R.</td> <td>4.55</td> <td>3.21</td> <td>4.68</td> <td>5.16</td> <td>4.37</td> <td>4.90</td> </tr> <tr> <td>2</td> <td>22</td> <td>A.R.</td> <td>4.56</td> <td>3.32</td> <td>4.81</td> <td>5.50</td> <td>4.79</td> <td>5.07</td> </tr> <tr> <td>3</td> <td>24</td> <td>A.R.</td> <td>4.83</td> <td>3.52</td> <td>4.87</td> <td>5.65</td> <td>4.81</td> <td>5.20</td> </tr> <tr> <td>4</td> <td>22</td> <td>A.R.</td> <td>4.77</td> <td>3.56</td> <td>4.72</td> <td>5.47</td> <td>4.85</td> <td>5.11</td> </tr> <tr> <td>5</td> <td>26</td> <td>A.R.</td> <td>4.92</td> <td>3.57</td> <td>5.05</td> <td>5.84</td> <td>4.72</td> <td>5.13</td> </tr> <tr> <td>6</td> <td>18</td> <td>T.C.</td> <td>5.11</td> <td>3.41</td> <td>5.01</td> <td>5.32</td> <td>5.13</td> <td>5.21</td> </tr> <tr> <td>7</td> <td>17</td> <td>T.C.</td> <td>5.23</td> <td>3.43</td> <td>5.26</td> <td>5.46</td> <td>5.13</td> <td>5.23</td> </tr> <tr> <td>8</td> <td>18</td> <td>T.C.</td> <td>5.29</td> <td>3.32</td> <td>5.23</td> <td>5.38</td> <td>5.16</td> <td>5.09</td> </tr> <tr> <td>9</td> <td>19</td> <td>T.C.</td> <td>5.34</td> <td>3.22</td> <td>5.30</td> <td>5.48</td> <td>5.21</td> <td>5.31</td> </tr> <tr> <td>10</td> <td>20</td> <td>T.C.</td> <td>5.24</td> <td>3.22</td> <td>5.19</td> <td>5.44</td> <td>4.26</td> <td>5.31</td> </tr> <tr> <td colspan="3">Average</td> <td>5.06</td> <td>3.50</td> <td>4.97</td> <td>5.43</td> <td>4.97</td> <td>5.16</td> </tr> <tr> <td colspan="3">Min</td> <td>4.77</td> <td>3.32</td> <td>4.63</td> <td>5.16</td> <td>4.66</td> <td>4.98</td> </tr> <tr> <td colspan="3">Max</td> <td>5.34</td> <td>3.61</td> <td>5.36</td> <td>5.51</td> <td>5.26</td> <td>5.31</td> </tr> </tbody> </table>		Test Subject	No. of sample	Condition	1.Walk	Head left Tight	Head up-down	Speech	2.Walk	Average	1	22	A.R.	4.55	3.21	4.68	5.16	4.37	4.90	2	22	A.R.	4.56	3.32	4.81	5.50	4.79	5.07	3	24	A.R.	4.83	3.52	4.87	5.65	4.81	5.20	4	22	A.R.	4.77	3.56	4.72	5.47	4.85	5.11	5	26	A.R.	4.92	3.57	5.05	5.84	4.72	5.13	6	18	T.C.	5.11	3.41	5.01	5.32	5.13	5.21	7	17	T.C.	5.23	3.43	5.26	5.46	5.13	5.23	8	18	T.C.	5.29	3.32	5.23	5.38	5.16	5.09	9	19	T.C.	5.34	3.22	5.30	5.48	5.21	5.31	10	20	T.C.	5.24	3.22	5.19	5.44	4.26	5.31	Average			5.06	3.50	4.97	5.43	4.97	5.16	Min			4.77	3.32	4.63	5.16	4.66	4.98	Max			5.34	3.61	5.36	5.51	5.26	5.31
Test Subject	No. of sample	Condition	1.Walk	Head left Tight	Head up-down	Speech	2.Walk	Average																																																																																																																							
1	22	A.R.	4.55	3.21	4.68	5.16	4.37	4.90																																																																																																																							
2	22	A.R.	4.56	3.32	4.81	5.50	4.79	5.07																																																																																																																							
3	24	A.R.	4.83	3.52	4.87	5.65	4.81	5.20																																																																																																																							
4	22	A.R.	4.77	3.56	4.72	5.47	4.85	5.11																																																																																																																							
5	26	A.R.	4.92	3.57	5.05	5.84	4.72	5.13																																																																																																																							
6	18	T.C.	5.11	3.41	5.01	5.32	5.13	5.21																																																																																																																							
7	17	T.C.	5.23	3.43	5.26	5.46	5.13	5.23																																																																																																																							
8	18	T.C.	5.29	3.32	5.23	5.38	5.16	5.09																																																																																																																							
9	19	T.C.	5.34	3.22	5.30	5.48	5.21	5.31																																																																																																																							
10	20	T.C.	5.24	3.22	5.19	5.44	4.26	5.31																																																																																																																							
Average			5.06	3.50	4.97	5.43	4.97	5.16																																																																																																																							
Min			4.77	3.32	4.63	5.16	4.66	4.98																																																																																																																							
Max			5.34	3.61	5.36	5.51	5.26	5.31																																																																																																																							
Conditioning: (A.R.) As Received, original (T.C.) Temperature conditioning																																																																																																																															
Results meet with FFP2 requirements																																																																																																																															
Penetration of filter material: Sodium Chloride Testing																																																																																																																															
<table border="1"> <thead> <tr> <th>Condition</th> <th>No. of Sample</th> <th>Sodium Chloride Testing 95 L/min max (%)</th> <th>Requirements in accordance with EN 149:2001 + A1:2009</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>(A.R.)</td> <td>23</td> <td>3.82</td> <td rowspan="3">FFP1 ≤ 30 %</td> <td rowspan="6">Filtering half masks fulfil the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)</td> </tr> <tr> <td>(A.R.)</td> <td>24</td> <td>3.76</td> </tr> <tr> <td>(A.R.)</td> <td>25</td> <td>3.58</td> </tr> <tr> <td>(S.W.)</td> <td>3</td> <td>4.14</td> <td rowspan="2">FFP2 ≤ 6 %</td> </tr> <tr> <td>(S.W.)</td> <td>2</td> <td>4.16</td> </tr> <tr> <td>(S.W.)</td> <td>3</td> <td>4.20</td> <td rowspan="3">FFP3 ≤ 1 %</td> </tr> <tr> <td>(M.S.T.C.)</td> <td>7</td> <td>4.45</td> </tr> <tr> <td>(M.S.T.C.)</td> <td>9</td> <td>4.78</td> </tr> <tr> <td colspan="2">Conditioning: (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment</td> </tr> <tr> <td colspan="2">95 L/min = 1.5 dm³ sec⁻¹</td> </tr> </tbody> </table>		Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result	(A.R.)	23	3.82	FFP1 ≤ 30 %	Filtering half masks fulfil the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)	(A.R.)	24	3.76	(A.R.)	25	3.58	(S.W.)	3	4.14	FFP2 ≤ 6 %	(S.W.)	2	4.16	(S.W.)	3	4.20	FFP3 ≤ 1 %	(M.S.T.C.)	7	4.45	(M.S.T.C.)	9	4.78	Conditioning: (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment		95 L/min = 1.5 dm³ sec⁻¹																																																																																										
Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result																																																																																																																											
(A.R.)	23	3.82	FFP1 ≤ 30 %	Filtering half masks fulfil the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)																																																																																																																											
(A.R.)	24	3.76																																																																																																																													
(A.R.)	25	3.58																																																																																																																													
(S.W.)	3	4.14	FFP2 ≤ 6 %																																																																																																																												
(S.W.)	2	4.16																																																																																																																													
(S.W.)	3	4.20	FFP3 ≤ 1 %																																																																																																																												
(M.S.T.C.)	7	4.45																																																																																																																													
(M.S.T.C.)	9	4.78																																																																																																																													
Conditioning: (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment																																																																																																																															
95 L/min = 1.5 dm³ sec⁻¹																																																																																																																															



CE 检测报告

EN149 Molude C2



Penetration of filter material: Parafin Oil Testing

Condition	No. of Sample	Parafin Oil Testing: 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result
(A.R.)	26	4,27	FFP1 ≤ 20% FFP2 ≤ 4% FFP3 ≤ 1%	Filtering half masks fulfill the requirements of the standard EN 149:2001 + A1:2009 provided 7.9.2 in range of the first and second protection class (FFP1, FFP2)
(A.R.)	27	4,30		
(A.R.)	28	4,16		
(S.W.)	4	3,94		
(S.W.)	5	3,88		
(S.W.)	6	3,76		
(M.S. T.C.)	10	4,26		
(M.S. T.C.)	11	4,27		
(M.S. T.C.)	12	4,36		

Conditioning: (M.S.) Mechanical Strength
(T.C.) Temperature Conditioning
(A.R.) As Received, original
(S.W.) Simulated wearing treatment

Article 7.10: Compatibility with skin: In Practical Performance report, the likelihood of mask materials in contact with the skin causing irritation or other adverse affect on health was not reported.

Flammability:

Condition	No. of Sample	Visual inspection	Requirements in accordance with EN 149:2001 + A1:2009	Result
(A.R.)	12	1,1	Filtering half mask shall not burn or not continue to burn for more than 5 s after removal from the flame	Passed
(A.R.)	23	1,3		
(T.C.)	21	1,2		Filtering half masks fulfill requirements of the standard
(T.C.)	22	1,1		

Conditioning: (A.R.) As Received, original
(T.C.) Temperature Conditioning

Carbon dioxide content of the inhalation air:

Condition	No. of Sample	CO ₂ content of the inhalation air [%] by volume	An average CO ₂ content of the inhalation air	Requirements in accordance with EN 149:2001 + A1:2009	Result
(A.R.)	41	0,91	0,96	CO ₂ content of inhalation air shall not exceed 0,96% (96 ppm)	Filtering half masks fulfill requirements of the standard
(A.R.)	42	0,83			
(A.R.)	43	0,92			

Conditioning: (A.R.) As Received, original

Article 7.11: Head harness: In Practical Performance report, No adverse effects have been reported for holding the mask of the head harness freely in position, for rearward linkage properties.

Article 7.14: Field of vision: In Practical Performance report, No adverse effects were reported for the field of vision fixtures.

Breathing Resistance: Inhalation

Condition	No. of Sample	Inhalation Resistance Index			Result
		Flow Rate 30 L/min	Requirements in accordance with EN 149:2001 + A1:2009	Flow Rate 95 L/min	
(A.R.)	29	4,5	FFP1 ≤ 0,8 FFP2 ≤ 0,7 FFP3 ≤ 1,0	FFP1 ≤ 2,1 FFP2 ≤ 2,4 FFP3 ≤ 3,0	Passed
(A.R.)	30	4,4			
(A.R.)	20	6,3			
(S.W.)	1	6,5			
(S.W.)	2	6,6			
(S.W.)	3	6,6			
(T.C.)	13	0,5			
(T.C.)	14	0,5			
(T.C.)	15	0,5			

Conditioning: (A.R.) As Received, original
(S.W.) Simulated wearing treatment
(T.C.) Temperature Conditioning



Breathing Resistance: Exhalation

Condition	No. of Sample	The donning head position	Exhalation Resistance		Result
			Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2009	
(A.R.)	29	Facing directly	2,2	FFP1 ≤ 3 FFP2 ≤ 3	Passed
		Facing vertically upwards	2,1		
		Facing vertically downwards	2,1		
		Lying on the left side	2,3		
		Lying on the right side	2,6		
		Facing directly	2,8		
(A.R.)	30	Facing vertically upwards	2,0	FFP1 ≤ 3	
		Facing vertically downwards	2,1		
		Lying on the left side	2,0		
		Lying on the right side	2,4		

Conditioning: (A.R.) As Received, original

Breathing Resistance: Exhalation

Condition	No. of Sample	The donning head position	Exhalation Resistance		Result
			Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2009	
(A.R.)	31	Facing directly	2,2	FFP1 ≤ 3 FFP2 ≤ 3	Passed
		Facing vertically upwards	2,1		
		Facing vertically downwards	1,9		
		Lying on the left side	2,1		
		Lying on the right side	2,0		
		Facing directly	2,2		
(S.W.)	1	Facing vertically upwards	2,2	FFP1 ≤ 3	
		Facing vertically downwards	2,0		
		Lying on the left side	2,3		
		Lying on the right side	2,3		

Conditioning: (A.R.) As Received, original
(S.W.) Simulated wearing treatment

Breathing Resistance: Exhalation

Condition	No. of Sample	The donning head position	Exhalation Resistance		Result
			Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2009	
(S.W.)	2	Facing directly	2,0	FFP1 ≤ 3 FFP2 ≤ 3	Passed
		Facing vertically upwards	2,3		
		Facing vertically downwards	2,0		
		Lying on the left side	2,0		
		Lying on the right side	2,2		
		Facing directly	2,1		
(S.W.)	3	Facing vertically upwards	2,2	FFP1 ≤ 3	
		Facing vertically downwards	2,0		
		Lying on the left side	2,1		
		Lying on the right side	2,1		

Conditioning: (S.W.) Simulated wearing treatment

Breathing Resistance: Exhalation

Condition	No. of Sample	The donning head position	Exhalation Resistance		Result
			Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2009	
(T.C.)	13	Facing directly	2,0	FFP1 ≤ 3 FFP2 ≤ 3	Passed
		Facing vertically upwards	2,0		
		Facing vertically downwards	2,4		
		Lying on the left side	2,2		
		Lying on the right side	2,3		
		Facing directly	2,1		
(T.C.)	14	Facing vertically upwards	2,2	FFP1 ≤ 3	
		Facing vertically downwards	2,1		
		Lying on the left side	2,2		
		Lying on the right side	2,1		

Conditioning: (T.C.) Temperature Conditioning



GUANGDONG YIDAO



Article	Breathing Resistance - Exhibition			Filtration Resistance		Result
	Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2002	
7.56	(T.C.)	13	Facing directly Facing vertically upwards Facing vertically downwards Lying on the left side Lying on the right side	2.0 2.1 2.0 2.0 2.0	FFP1 ≤ 3 FFP2 ≤ 3 FFP3 ≤ 3	Passed
Article 7.17.2	Conditioning (T.C.) Temperature Conditioning Clogging: This test is not applied to Particle Filtering Half Mask, which is not reusable. <i>(For single-use devices, the clogging test is optional test. For reusable devices this is mandatory.)</i>					
Article 7.17.3	Penetration of filter materials: This test is not applied to Particle Filtering Half Mask, which is not reusable.					
Article 7.18	Disassemblable Parts: There are no disassemblable parts on the product.					
Article 8	Marking - Packaging: Necessary markings are available on the product and its packaging.					
Article 9	Information to be supplied by the manufacturer: In each of the units of commercial available packaging of the product, implementation (installation instructions) pre-use controls, warning and usage limitations, storage and meanings of symbols / pictograms are defined.					

GUANGDONG YIDAO

PREPARED BY Mert TÜKENMEZ PPE Expert	APPROVED BY Suat KACMAZ General Manager
---	--



We are under the examine and approve for the USA EUA / WHITE LIST



Fiscal Year 2020

CERTIFICATION OF REGISTRATION

This certifies that:
Guangdong YIDAO Medical Technology Co., LTD.
 Room 302, Building 2, No. 1, Lane 1, Xiju Road, Hengli, Dongguan City, Guangdong,
 523000, China.
 Was registered with US Food and Drug Administration, Center for devices and
 Radiological Health, pursuant to the Code of Federal Regulations 21 CFR 807.

Owner/Operator Number: 10068352

Listing Number	Premarket Submission Number/Type	Proprietary Name	Device Class	Product Codes	Activities
D388217	Exempt	Disposable protective mask, YD-001	ACCESSORY, SURGICAL APPAREL	MSH	Manufacturer
D388223	Exempt	KN95 protective mask, YD-002	RESPIRATOR, SURGICAL	MSH	Manufacturer

FDA Owner/OPERATOR NUMBER QUERY URL:
<https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfRL/rl.cfm>

We confirm that such registration remains effective upon request and presentation of this certificate until the end of the calendar year stated above, unless said registration is terminated after issuance of this certificate. The U.S. Food and Drug Administration makes no other representations or warranties, nor does this certificate make any representations or warranties to any person or entity other than the named certificate holder, for whose sole use used for FDA Show off Owner/Operator Number. This certificate does not denote endorsement or approval of the certificate-holder's device or establishment by the U.S. Food and Drug Administration.

Pursuant to 21 CFR 807.39, "Registration of a device establishment or assignment of a registration number does not in any way denote approval of the establishment or its products. Any representation that creates an impression of official approval because of registration or possession of a registration number is misleading and constitutes misbranding". The U.S. Food and Drug Administration does not issue a certificate of registration. This certificate is used as FDA company information display only, nor does the U.S. Food and Drug Administration recognize or issue any kind of certificate of registration.

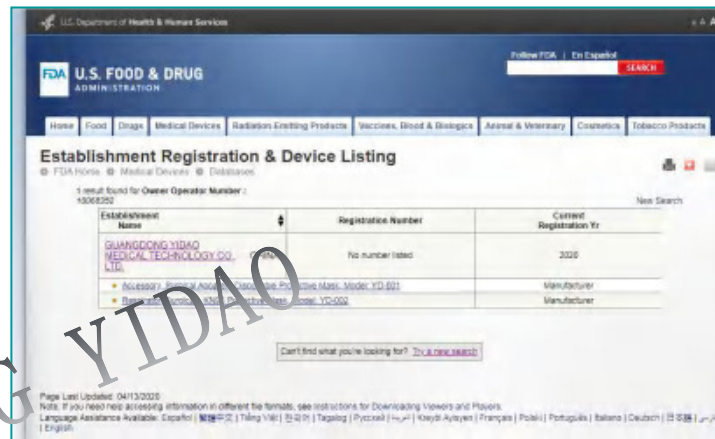
Issued: April 08, 2020

Expiration Date: Dec 31, 2020



Contact Number: 1-888-INFO-FDA
 (1-888-463-6332)
<https://www.fda.gov>

Address: Food and Drug Administration
 10903 New Hampshire Ave
 Silver Spring, MD 20993-0002



U.S. Department of Health & Human Services
FDA U.S. FOOD & DRUG ADMINISTRATION

Home | Food | Drugs | Medical Devices | Radiation-Emitting Products | Vaccines, Blood & Biologics | Animal & Veterinary | Cosmetics | Tobacco Products

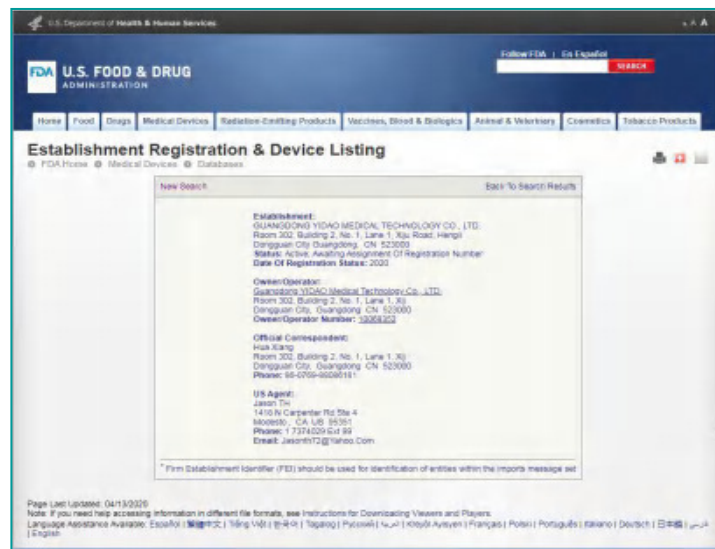
Establishment Registration & Device Listing

1 result found for Owner/Operator Number: 10068352

Establishment Name	Registration Number	Current Registration Yr
GUANGDONG YIDAO MEDICAL TECHNOLOGY CO., LTD.	No number listed	2020

Additional information:
 • Accessory, Surgical Apparel, Disposable Protective Mask, Model YD-001
 • Disposable Protective Mask, Disposable Protective Mask, Model YD-002

Language Assistance Available: Español | 繁體中文 | Tiếng Việt | 한국어 | Tagalog | ਪੰਜਾਬੀ | العربية | 한국어 | Azərbaycan | Français | Polski | Português | Italiano | Deutsch | 日本語 | English



U.S. Department of Health & Human Services
FDA U.S. FOOD & DRUG ADMINISTRATION

Home | Food | Drugs | Medical Devices | Radiation-Emitting Products | Vaccines, Blood & Biologics | Animal & Veterinary | Cosmetics | Tobacco Products

Establishment Registration & Device Listing

New Search

Establishment:
 GUANGDONG YIDAO MEDICAL TECHNOLOGY CO., LTD.
 Room 302, Building 2, No. 1, Lane 1, Xiju Road, Hengli
 Dongguan City Guangdong, CN 523000
 Status: Active, Awaiting Assignment Of Registration Number
 Date Of Registration Status: 2020

Owner/Operator:
 Guangdong Yidao Medical Technology Co., LTD.
 Room 302, Building 2, No. 1, Lane 1, Xiju
 Dongguan City, Guangdong, CN 523000
 Owner/Operator Number: 10068352

Official Correspondent:
 Hua Jiang
 Room 302, Building 2, No. 1, Lane 1, Xiju
 Dongguan City, Guangdong, CN 523000
 Phone: 86-0769-85080181

US Agent:
 Jason Tu
 1402 N Carpenter Rd Ste 4
 Modesto, CA 95351
 Phone: 17374202400 88
 Email: jason@72@Yahoo.Com

* Firm Establishment Identifier (FEI) should be used for identification of entities within the message set

Page Last Updated: 04/13/2020
 Note: If you need help accessing information in different file formats, see Instructions for Downloading Viewers and Players.
 Language Assistance Available: Español | 繁體中文 | Tiếng Việt | 한국어 | Tagalog | ਪੰਜਾਬੀ | العربية | 한국어 | Azərbaycan | Français | Polski | Português | Italiano | Deutsch | 日本語 | English

公司实景

The company live



公司实景

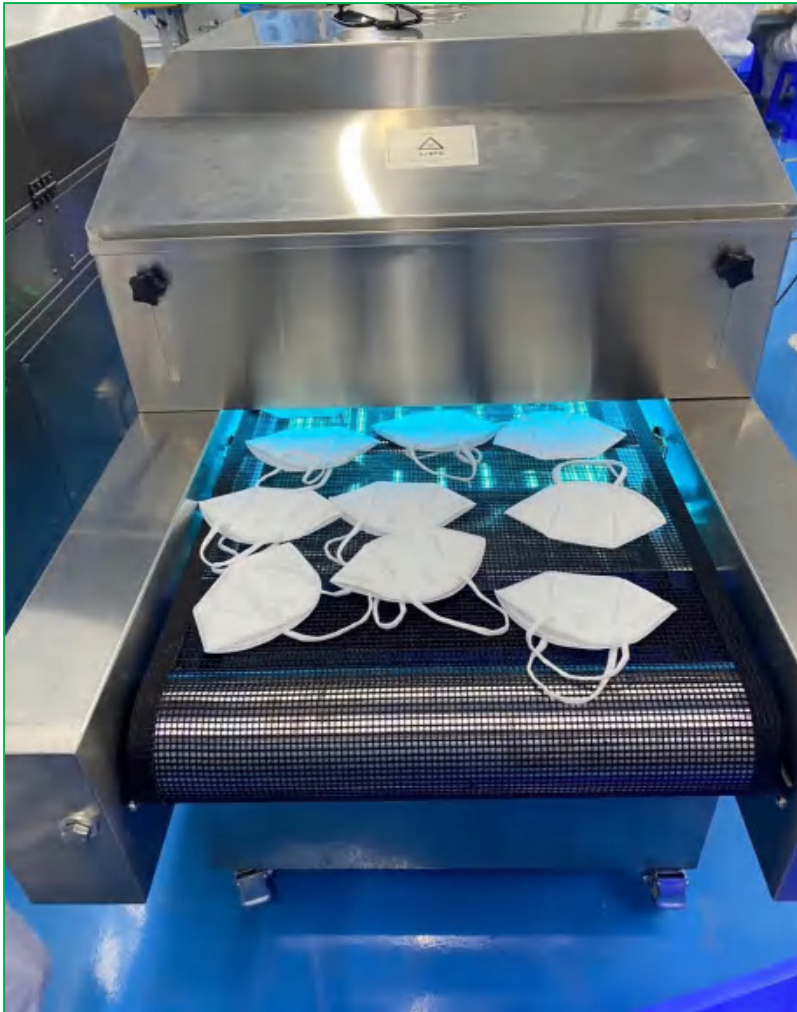
The Company Live



公司实景

The Company Live

UV Disinfection and Sterilization



Factory's Testing Laboratory



产品细节

Products Details

Inside stable nose bridge

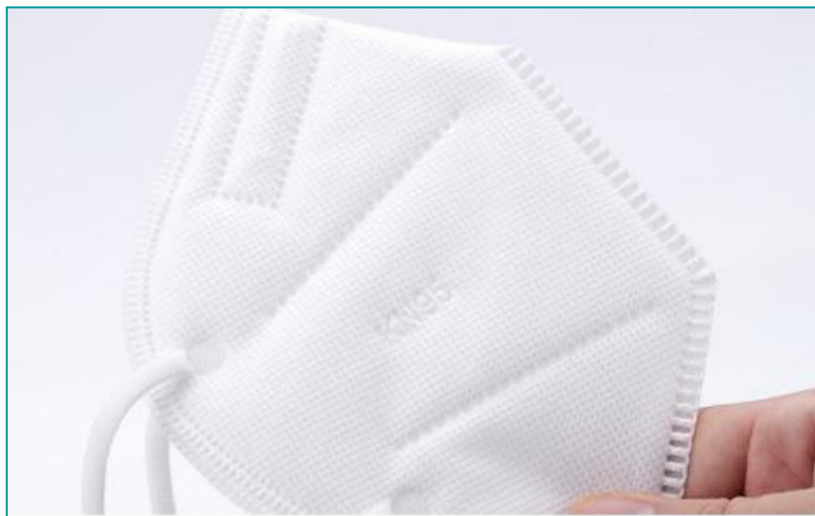
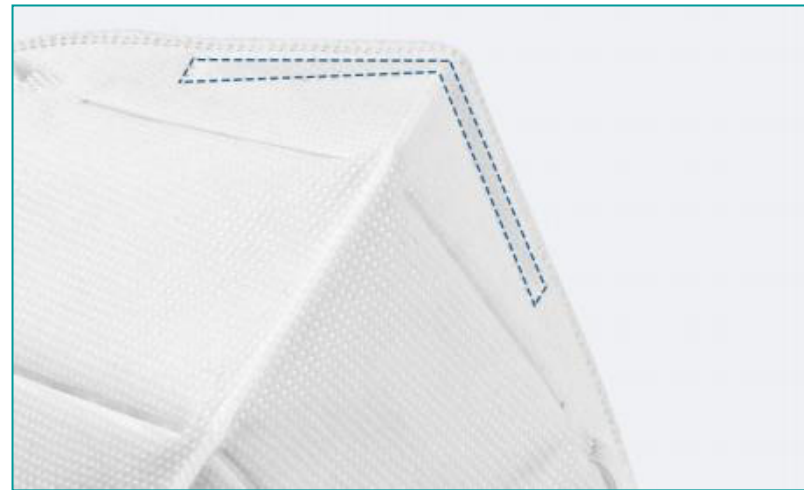
Durable elastic lanyard
Fully automatic embossing



Five-layer design:
Inner and outer skin-friendly non-woven fabric, two layers of melt-blown cloth wrapped with filling layer

产品细节

Products Details



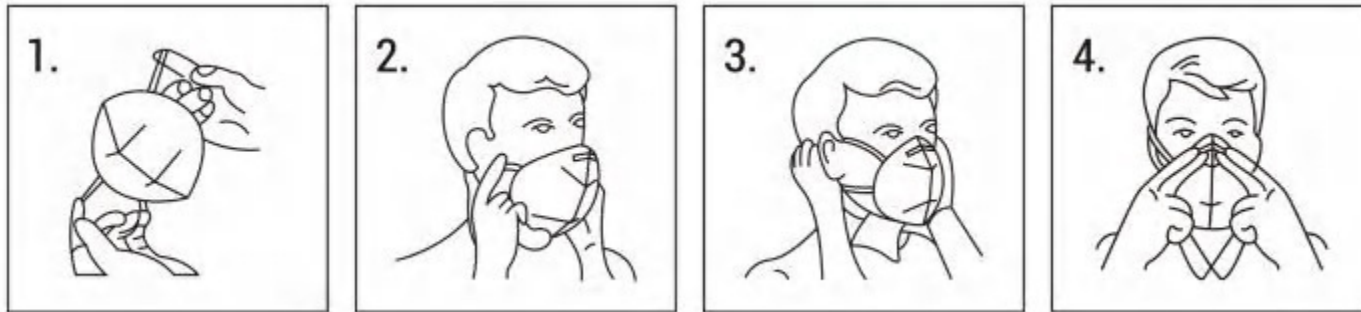
产品实物图

Product Photo



安装佩戴

Installation



1. With the nose clip facing outwards, pull the ear straps with each hand.
2. Cover your nose, mouth and chin with a protective mask.
3. Pull the ear strap behind your ear and adjust the ear strap to comfort.
4. Place your fingers in the middle of the nose clip and press inward as you move along the clip to the sides until the clip is fully attached to the bridge of nose.

CERTIFICATE OF CONFORMANCE

Certificate Nr: 2163-PPE-639/01

Respiratory protective devices, filtering half masks to protect against particles manufactured by

Guangdong YIDAO Medical Technology Co., LTD.

at the following manufacturing site

Room 302, Building 2, No. 1, Lane 1, Xiju Road, Hengli, Dongguan City, Guangdong Province,
P. R. CHINA

Continues to fulfil the requirements of

**EN 149:2001 + A1:2009 Respiratory Protective Devices -
Filtering Half Masks to Protect Against Particles -
Requirements, Testing, Marking**

Based on the evaluation of test reports and internal quality control audit reports according to EN 149+A1:2009 and Personal Protective Equipment Regulation (EU) 2016/425 Annex VII (Module C2). This certificate implies that the manufactured products show below are in conformance with the approved EU Type Examination model and meets the requirements of the regulation. The details of compliance is given in technical report numbered 2163-PPE-640/01

Product Definition

Model	Class	EU Type Examination Certificate		
		Serial Nr.	Date	Issuing NB Nr.
YD-002	FFP2	2163-PPE-639	28/04/2020	2163

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with;

- Issuing an appropriate EU Declaration of Conformity according to **Personal Protective Equipment Regulation (EU) 2016/425 Annex 9**.
- Taking all measures necessary so that the manufacturing process and its monitoring ensure the homogeneity of production and conformity of the manufactured PPE with the type described in the EU type examination certificate.

This certificate is issued on **28/04/2020** and will be valid for one year, until **27/04/2021** if the manufacturer makes no major change in the product designs and manufacturing processes affecting the product performance on the essential health and safety requirement.



Suat KAÇMAZ
UNIVERSAL CERTIFICATION
Director



The validity of this certificate can be verified online.

EU TYPE EXAMINATION CERTIFICATE

Certificate Nr: 2163-PPE-639

Respiratory protective devices, filtering half masks to protect against particles manufactured by

Guangdong YIDAO Medical Technology Co., LTD.Room 302, Building 2, No. 1, Lane 1, Xiju Road, Hengli, Dongguan City, Guangdong
Province, P. R. CHINA

are tested and evaluated according to

**EN 149:2001+A1:2009 Respiratory Protective Devices - Filtering Half
Masks To Protect Against Particles - Requirements, Testing, Marking**

Based on the type examination conducted with the evaluation of test reports, technical file according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 5, it is approved that the product meets the requirements of the regulation. The details of essential requirement compliance is given in technical report numbered **2163-PPE-640**.

Product Definition**Brand Name:** YPHD **Model:** YD-002

Filtering half mask

Total Inwards Leakage: Class – FFP2

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with;

- Issuing an appropriate EU Declaration of Conformity according to **Personal Protective Equipment Regulation (EU) 2016/425 Annex 9**.
- Ongoing successful performance in fulfilment of the requirements set out in Personal Protective **Equipment Regulation (EU) 2016/425** and harmonised standards, ensured by assessments based on **Annex 7 (Module C2) or Annex 8 (Module D)** of the regulation no later than 1 year from the beginning of serial production

This certificate is initially issued on **28/04/2020** and will be valid for 5 years if there is no change in the relevant harmonised standard affecting the essential health and safety requirements.



Suat KAÇMAZ
UNIVERSAL CERTIFICATION
Director



The validity of this certificate can be verified online.



TEST REPORT

EN 149:2001 + A1:2009

Particle Filtering Half Masks

Client: Guangdong YIDAO Medical Technology Co., LTD.

Manufacturing Address: Room 302, Building 2, No. 1, Lane 1, Xiju Road, Hengli, Dongguan City, Guangdong Province, P.R. CHINA

Model (s): YD-002 FFP2 NR without valve


Sample received on: April 07, 2020

Report Number: NPT/20040712669

Elaborated by: Ashley Madison

Place and date of issue: Sheridan, WY April 25, 2020




Dr. Joseph Andrew, Ph.D.
Head of Testing Laboratory

*Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!*

TEST RESULT DETAILS (EN 149:2001 + A1:2009)

7.4 Packaging (EN 149:2001 + A1:2009 clause 8.2)	
The masks were not packaged as offered for sale. Manufacturer to certify regarding the final packaging to be used.	NAs
The masks were packaged in sealed plastic bags, in larger plastic bags inside a large cardboard box that gave some protection against mechanical damage or contamination before use.	Passed
7.5 Material (EN 149:2001 + A1:2009 clause 8.2, 8.3.1, 8.3.2)	
The materials used were able to withstand handling and wear during the limited laboratory testing carried out.	Passed
The effect on materials from "in-use" environmental factors could not be evaluated during laboratory tests. Manufacturer to certify regarding such factors.	NAs
Samples were conditioned in accordance with 8.3.1. None of the specimens conditioned suffered mechanical failure or collapse.	Passed
Samples were conditioned in accordance with 8.3.2. None of the specimens conditioned suffered collapse.	Passed
7.6 Cleaning and Disinfecting (EN 149:2001 + A1:2009 clause 8.4, 8.5, 8.11)	
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. 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.	N/A
7.7 Practical Performance (EN 149:2001 + A1:2009 clause 8.4)	
See tested reference number PPT-001	Passed
7.8 Finish of Parts (EN 149:2001 + A1:2009 clause 8.2)	
None of the specimens used in laboratory testing showed evidence of sharp edges or burrs.	Passed
7.9.1 Total Inward Leakage (EN 149:2001 + A1:2009 clause 8.5)	
See tested reference number TIL-001	Passed
7.9.2.a Penetration of Filter Material-Sodium Chloride (EN 149:2001 + A1:2009 clause 8.11 & EN 13274-7:2019)	
See tested reference number SCT-001	Passed
7.9.2.b Penetration of Filter Material-Paraffin Oil (EN 149:2001 + A1:2009 clause 8.11 & EN 13274-7:2019)	
See tested reference number POT-001	Passed
7.10 Compatibility with skin (EN 149:2001 + A1:2009 clause 8.4, 8.5)	
No problems were encountered during practical performance testing.	Passed
No problems were encountered during total inward leakage testing.	Passed
The likelihood of materials in contact with the skin causing irritation or other adverse effect on health was not assessed. Manufacturer to certify.	NAs

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

7.11 Flammability (EN 149:2001 + A1:2009 clause 8.6)	
See tested reference number FT-001	Passed

7.12 Carbon dioxide content of the inhalation air (EN 149:2001 + A1:2009 clause 8.7)	
See tested reference number CDT-001	Passed

7.13 Head harness (EN 149:2001 + A1:2009 clause 8.4, 8.5)	
The head harness was designed to allow the particle filtering half-mask to be donned and removed easily during limited practical performance and total inward leakage testing.	Passed
The head harness was adjustable and there were no adverse comments regarding security following limited practical performance and total inward leakage testing.	Passed
The product satisfied the total inward leakage requirements.	Passed

7.14 Field of vision (EN 149:2001 + A1:2009 clause 8.4)	
There were no adverse comments following practical performance tests.	Passed

7.15 Exhalation Valve (EN 149:2001 + A1:2009 clause 8.2, 8.3.4, 8.8, 8.9.1)	
Not applicable	N/A

7.16 Breathing Resistance (EN 149:2001 + A1:2009 clause 8.9)	
See tested reference number BRT-001	Passed

7.17 Clogging (EN 149:2001 + A1:2009 clause 8.9, 8.10)	
This is optional test and not desired by client.	NAs

7.18 Demountable Parts (EN 149:2001 + A1:2009 clause 8.2)	
No demountable parts	N/A

8.3 Conditioning	
See tested reference number CS-001	Passed

Passed	Requirement satisfied.
NCR	Requirement not satisfied. Refer to the "Result details" section for more information.
NAs	Assessment not carried out.
N/A	Requirement not applicable.

Conclusion:

Model	Recommendation Level
YD-002	FFP2 NR

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!



NATIONAL PROTECTIVE TESTING LLC



Test Standard: EN 149:2001+A1:2009 / EN 13274-5:2001
Name of tests: Conditioning of Samples
Reference no: CS-001

Simulated wearing treatment

Conditioning by simulated wearing treatment has been carried out by the following process. A breathing machine is adjusted to 25 cycles/min and 2.0 l/stroke. The particle filtering half mask was 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 has been saturated at (37 ± 2) °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 has been inclined so that the water runs away from the mouth and is collected in a trap. The breathing machine was brought into operation, the saturator switched on and the apparatus allowed to stabilize. The particle filtering half mask under test has then been mounted on the dummy head. During the test time at approximately 20 min intervals the particle filtering half mask has been completely removed from the dummy head and refitted such that during the test period it is fitted ten times to the dummy head.

Temperature conditioning

Unless otherwise specified, the ambient temperature for testing has been between 16 °C and 32 °C and the temperature limits has been subject to an accuracy of ±1 °C.

In order to ensure that there is no thermal shock during the conditioning of the specimens, the temperature gradient has been less than 2 °C/min between phases at different temperatures, or between the beginning and the end of a thermal cycle.

Expose the particle filtering half masks to the following thermal cycle:

- a) for 24 h to a dry atmosphere of (70 ± 3) °C;
- b) for 24 h to a temperature of (-30 ± 3) °C; and allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing. The conditioning has been carried out in a manner which ensures that no thermal shock occurs

Mechanical strength

The apparatus consists of a steel case (K) which is fixed on a vertically moving piston (S), capable of being lifted up 20 mm by a rotating cam (N) and dropping down onto a steel plate (P) under its own mass as the cam rotates. The mass of the steel case shall be more than 10 kg. The weight of the steel plate onto which the steel case falls should be (at least) 10 times the weight of the steel case. This may be achieved by bolting the base plate to a hard solid floor.

Test results:

The test results obtained are given in the tables as follows

No	Conditioning Area	Samples Number
1	Simulated wearing treatment	1-2-3-4-5-6 (As Received)
2	Temperature conditioning	7-8-9-10-11-12 (Sample after test of Mechanical Strength)
		13-14-15-16-17-18-19-20-21-22 (As Received)
3	Mechanical strength	7-8-9-10-11-12 (As Received)

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Test Standard: EN 149:2001+A1:2009 / EN 13274-2:2001
Name of tests: Practical Performance Testing
Reference no: PPT-001

Test Purpose:

This test method is used to determine practical performance when its purpose is fitted by subjects during use in the simulated application, it subjectively evaluates certain features, characteristics and functions of the device that cannot be evaluated by experiments described in other standards.

Sampling method:

A total of two particle filtering half masks have been tested: two in the state as received.

Testing methods used:

A test method for determining practical performance in accordance with standard EN 13274-2:2001 + EN 149:2001 + A1:2009 clause 7.7/8.4

Test conditions:

The test has been carried out in a normally lit area with a temperature of 16 ° C to 32 ° C and a relative humidity of 30% to 80%. The actual temperature and humidity conditions and noise level have been recorded.

Test Principle:

A total of 2 particle filtering half masks have been tested: both as received. All tests have been carried out by two test subjects at ambient temperature and the test temperature and humidity have been recorded. Prior to the test there has been an examination to assure that the particle filtering half mask is in good working condition and that it can be used without hazard. For the test, persons have been selected who are familiar with using such or similar equipment.

Test Equipment:

A small basket (approximate volume = 8 l) with chippings or other suitable material from a hopper

Test Procedure:

General: During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded: a) head harness comfort; b) security of fastenings; c) field of vision; d) any other comments reported by the wearer on request.

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.

Work simulation test: The particle filtering half mask shall be tested under conditions which can be expected during normal use. During this test the following activities shall be carried out in simulation of the practical use of the particle filtering half mask. The test shall be completed within a total working time of 20 min. The sequence of activities is at the discretion of the test house. The individual activities shall be arranged so that sufficient time is left for the comments prescribed.

- a) walking on the level with headroom of (1,3 ± 0,2) m for 5 min;
- b) crawling on the level with headroom of (0,70 ± 0,05) 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. 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.

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!



NATIONAL PROTECTIVE TESTING LLC



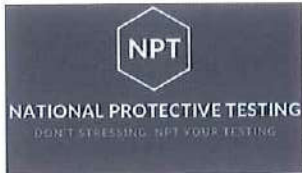
Test results:

The test results obtained are given in the tables as follows

Number of sample: 39 (A.R), 40 (A.R)

Assessed elements	Positive Assessment	Negative Assessment	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
1. The face piece fitting	2	0	Filtering half masks should not have imperfections related to wearer's acceptance	Filtering half masks fulfill requirements of the standard EN 149:2001 + A1:2009 given in 7.7
2. Head harness comfort	2	0		
3. Security of fastenings	2	0		
4. Speech clearness	2	0		
5. Field of vision	2	0		
6. Materials compatibility with skin	2	0		

*Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!*



Test Standard: EN 149:2001+A1:2009 / EN 13274-1:2001
Name of tests: Total Inward Leakage Testing
Reference no: TIL-001

Test Purpose:

This test method is used to determine the total inward leakage in respiratory protective devices.

Sampling method:

A total of ten particle filtering half masks have been tested: five in the state as received and five after temperature conditioning.

Testing methods used:

A test method for determining total inward leakage in accordance with standard EN 13274-1:2001 + EN 149:2001 + A1:2009 clause 7.9.1/8.5.

Test conditions:

The five test samples were conditioned in accordance with temperature conditioning.

Test Principle:

The total inward leakage has been tested using sodium chloride aerosol. Prior to the test there has been an examination to ensure that the particle filtering half mask is in good working condition and that it can be used without hazard. For the test, persons has been selected who are familiar with using such or similar equipment. A panel of ten clean-shaven persons (without beards or sideburns) has been selected covering the spectrum of facial characteristics of typical users (excluding significant abnormalities). It is to be expected that exceptionally some persons cannot be satisfactorily fitted with a particle filtering half mask. Such exceptional subjects has not been used for testing particle filtering half masks.

Test Equipment:

The test atmosphere shall preferably enter the top of the enclosure through a flow distributor, and be directed downwards over the head of the test subject at a minimum flow rate of 0,12 m/s. The concentration of the test agent inside the effective working volume shall be checked to be homogeneous. The flow rate should be measured close to the subject's head. A level treadmill is required capable of working at 6 km/h.

Test Procedure:

Ask the test subjects to read the manufacturer's fitting information and if more than one size of particle filtering half mask is manufactured, ask the test subject to select the size deemed by him to be the most appropriate. If necessary the test supervisor shall show the test subjects how to fit the particle filtering half mask correctly in accordance with the fitting information. Inform the test subjects that if they wish to adjust the particle filtering half mask during the test they may do so. However if this is done, repeat the relevant section of the test, having allowed the system to resettle. The test subjects shall have no indication of the results as the test proceeds.

After fitting the particle filtering half mask, ask each test subject 'Does the mask fit?' If the answer is 'Yes', continue the test. If the answer is 'No', take the test subject off the panel, report the fact and replace with another test subject.

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Test results:

The test results obtained are given in the tables as follows

Test Subject	No of sample	Cond.	1. Walk (%)	Head side/ side (%)	Head up/down (%)	Talk (%)	2. Walk (%)	Mean (%)	
1	32	A.R.	4,93	5,21	4,88	5,10	4,77	4,98	
2	33	A.R.	4,96	5,32	4,89	5,41	4,79	5,07	
3	34	A.R.	4,85	5,62	4,95	5,68	4,91	5,20	
4	35	A.R.	4,77	5,56	4,75	5,30	4,66	5,01	
5	36	A.R.	4,82	5,52	4,77	5,66	4,72	5,10	
6	16	T.C.	5,11	5,41	5,11	5,34	5,10	5,21	
7	17	T.C.	5,25	5,49	5,25	5,49	5,15	5,33	
8	18	T.C.	5,29	4,32	5,16	5,34	5,16	5,05	
9	19	T.C.	5,34	5,22	5,35	5,42	5,21	5,31	
10	20	T.C.	5,24	5,32	5,37	5,38	5,26	5,31	
Maximum permitted			All individual exercise results were not greater than 11 %					Not greater than 8%	

Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
at least 46 out of the 50 individual results shall be not greater than 25 % for FFP1 11 % for FFP2 5 % for FFP3 and at least 8 out of the 10 individual wearer means shall be not greater than 22 % for FFP1 8 % for FFP2 2 % for FFP3	Passed Filtering half masks fulfil requirements of the standard EN 149:2001 + A1:2009 given in 7.9.1 in range of the first, the second and the third protection class (FFP1, FFP2, FFP3)

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Test Standard: EN 149:2001+A1:2009 / EN 13274-7:2019
Name of tests: Penetration of filter material Sodium Chloride Testing
Reference no: SCT-001

Test Purpose:

This test method is used to measure that the penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1 in 7.9.2.

Sampling method:

A total of nine particle filtering half masks have been tested: three in the state as received, three the simulated wearing treatment and three samples after the mechanical strength test and temperature conditioning.

Testing methods used:

A test method for determining penetration of filter material sodium chloride testing in accordance with standard EN 13274-7:2019 / EN 149:2001 + A1:2009 clause 7.9.2

Test conditions:

The six test samples were conditioned in accordance with mechanical strength test and temperature conditioning, simulated wearing treatment.

Test Principle:

The Sodium Chloride Aerosol Challenge test is able to determine filtration efficiency measurements up to 99.999% I. The sample is placed into the filter holder. Cone or molded masks and respirators are mounted to a test fixture and sealed into a cylinder filter holder to ensure that the mask is properly sealed. Samples are subjected to aerosolized NaCl. The concentration of NaCl is measured before and after impact with the sample. The amount of NaCl that passes through the sample is used to calculate the filtration efficiency of the sample.

Test Equipment:

The test equipment consists four modules sodium chloride aerosol generator flow control, filter test chamber, flame photometer aerosol detector. Sodium chloride aerosol is detected before and after the filtering device under test by flame photometry.

Test Procedure:

The device shall be mounted in a leak tight 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. In order to carry out tests on the filtration efficiency of the filter material against particulates, a 1.0% NaCl solution based on demineralized water is used. From the above solution using a Collision atomizer, an aerosol is generated with a particle diameter of 600 nm and an average concentration of 8 mg / m³. The aerosol is passed through the tested complete filtering half mask, sealed in the test chamber, with an air flow rate of 95 l / min. The test aerosol concentration is determined before and after the test sample using flame photometry. Comparison of determined concentrations allows to determine the filtration efficiency of the tested sample in the range from 0.00001% to 100%.

Test results:

The test results obtained are given in the tables as follows

No. of Sample	Condition	Penetration of Sodium Chloride in accordance with EN 13274-7:2019 [%] Flow rate 95 l/min	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
23	As received	3,82	FFP1 ≤ 20 % FFP2 ≤ 6 % FFP3 ≤ 1 %	Filtering half masks fulfil the requirements of the standard EN 149:2001+A1:2009 given in 7.9.2 in range of the first and the second protection class (FFP1, FFP2)
24		3,76		
25		3,90		
1	Simulated wearing treatment	4,14		
2		4,16		
3		4,20		
7	Mechanical strength + Temperature conditioned	4,45		
8		4,78		
9		4,69		

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

Test Standard: EN 149:2001+A1:2009 / EN 13274-7:2019
Name of tests: Penetration of filter material Paraffin Oil Testing:
Reference no: POT-001

Test Purpose:

This test method is used to measure that the penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1 in 7.9.2.

Sampling method:

A total of nine particle filtering half masks have been tested: three in the state as received, three the simulated wearing treatment and three samples after the mechanical strength test and temperature conditioning.

Testing methods used:

A test method for determining penetration of filter material sodium chloride testing in accordance with standard EN 13274-7:2019 / EN 149:2001 + A1:2009 clause 7.9.2

Test conditions:

The six test samples were conditioned in accordance with mechanical strength test and temperature conditioning, simulated wearing treatment.

Test Principle:

An aerosol of paraffin oil droplets is generated by atomising paraffin oil. The concentration of this aerosol is measured before and after the filter under test by means of a light scattering aerosol photometer. Determinations have been possible in the range < 0.001% to 100% filter penetration.

Test Equipment:

The test equipment consists four modules paraffin oil mist aerosol generator flow control, filter test chamber, scattered light aerosol detector. The aerosol mass concentration and particle size distribution has been measured within the filter test chamber.

Test Procedure:

Tests on the efficiency of filtration against liquid particles are carried out using a paraffin oil mist generated using a CP 27 DAB paraffin oil atomizer heated to 1000C. The liquid aerosol thus generated has an average concentration of 20 mg / m³ and an average particle diameter of 400 nm. The aerosol thus generated is passed through the tested complete filtering half mask, sealed in the test chamber, with an air flow rate of 95 l / min.

The concentration of the test aerosol before and after the sample is determined by means of laser photometry. Comparison of determined concentrations allows to determine the filtration efficiency test sample for liquid aerosols in the concentration range from 0.0001% to 100%.

Test results:

The test results obtained are given in the tables as follows

No. of Sample	Condition	Penetration of Paraffin Oil Mist in accordance with EN 13274-7:2019 [%] Flow rate 95 l/min	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
26	As received	4,27	FFP1 ≤ 20 % FFP2 ≤ 6 % FFP3 ≤ 1 %	Passed Filtering half masks fulfil the requirements of the standard EN 149:2001+A1:2009 given in 7.9.2 in range of the first and the second protection class (FFP1, FFP2)
27		4,20		
28		4,16		
4	Simulated wearing treatment	3,94		
5		3,88		
6		3,76		
10	Mechanical strength + Temperature conditioned	4,26		
11		4,27		
12		4,36		

*Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!*

Test Standard: EN 149:2001+A1:2009 / EN 13274-4:2001
Name of tests: Flammability Testing
Reference no: FT-001

Test Purpose:

This test method is used to measure that the materials used in the device are not dangerous for the person using the device and do not possess highly flammable nature.

Sampling method:

A total of four particle filtering half masks have been tested: two in the state as received and two after temperature conditioning.

Testing methods used:

A test method for determining Flammability in accordance with standard EN 13274-4:2001 + EN 149:2001 + A1:2009 clause 7.11/8.6.

Test conditions:

The two test samples were conditioned in accordance with temperature conditioning.

Test Principle:

The filtering face pieces subjected to the test, are passed one by one through a flame with a temperature of 800°C +/- 50°C and at a speed of 6 cm/s. The respirators must not go on burning for more than 5 s after removal from the flame.

Test Equipment:

The test rig consists mainly of a propane cylinder with flow control device, pressure gauge, flash back arrester, specimen support, rotation motor with speed controller, and burner. The burner has been either be in accordance with 6.2 or with ISO 6941. The purity of the propane has been a minimum of 95 %.

Test Procedure:

The face piece 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 (60 ± 5) mm/s. 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 face piece (when positioned directly over the burner) shall be set to (20 ± 2) mm.

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 had been set to (40 ± 4) mm. This is measured with a suitable gauge.

The temperature of the flame measured at a height of (20 ± 2) mm above the burner tip by means of a 1,5 mm diameter mineral insulated thermocouple probe, shall be (800 ± 50) °C. Failure to meet the temperature requirement indicates that a fault such as a partially blocked burner exists. This had been rectified before testing. The head is set in motion and the effect of passing the face piece once through the flame has been noted.

The test has been repeated to enable an assessment to be made of all materials on the exterior of the device. Any one component has been passed through the flame once only

Test results:

The test results obtained are given in the tables as follows

No. of Sample	Condition	Visual inspection	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
32	As received	1,4	Filtering half mask shall not burn or not continue to burn for more than 5 s after removal from the flame	Filtering half masks fulfill requirements of the standard EN 149:2001 + A1:2009 given in 7.1
33		1,3		
21	Temperature conditioned	1,2		
22		1,1		

*Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!*

Test Standard: EN 149:2001+A1:2009 / EN 13274-6:2001
Name of tests: Carbon dioxide content of the inhalation air Testing
Reference no: CDT-001

Test Purpose:
 This test method is used to determine carbon dioxide content of the inhalation air.

Sampling method:
 A total of three particle filtering half masks have been tested: all three in the state as received.

Testing methods used:
 A test method for determining carbon dioxide content of the inhalation air in accordance with standard EN 13274-6:2001 + EN 149:2001 + A1:2009 clause 7.12/8.7.

Test conditions:
 The atmosphere where the temperature is from 16 ° C to 32 ° C and the relative humidity is 20% to 80%.

Test Principle:
 The device is attached to the Sheffield mannequin head / body as described in the device standard; In the case of complete hardware testing, an air supply is operated under the manufacturer's lowest conditions, unless otherwise specified in the relevant standard. Air containing carbon dioxide at a certain concentration is supplied from the respirator to the mannequin head / body at a given flow rate. The inhaled air is analysed for its carbon dioxide content. The measured carbon dioxide level provides information on the assessment of the "dead volume" of the facial protective part rather than a "real" measurement of the carbon dioxide level in the inhaled air.

Test Equipment:
 The test rig consists Breathing apparatus, Auxiliary lung, Solenoid valve, Sheffield Mannequin head, Non-return valve, Sampling pipe for breathing air, Flow meter, Carbon dioxide absorber, Balancer, Carbon dioxide supply, Carbon dioxide analyzer

Test Procedure:
 The apparatus subjects the particle filtering half mask to a respiration cycle by the breathing machine. For this test the particle filtering half mask has been fitted securely in a leak-tight manner but without deformation to a Sheffield dummy head. Air has been supplied to it from a breathing machine adjusted to 25 cycles/min and 2,0 l/stroke and the exhaled air has a carbon dioxide content of 5 % by volume. If the design of the test equipment causes a CO2 build-up a CO2 absorber has been used in the inhalation branch between solenoid valve and breathing machine. The CO2 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 CO2 analyser.

To measure the CO2 content of the inhaled air, 5 % of the stroke volume of the inhalation phase of the breathing machine is drawn off at the marked place by an auxiliary lung and fed to a CO2 analyser. The total dead space of the gas path (excluding the breathing machine) of the test installation should not exceed 2000 ml. Measure the carbon dioxide content of the inhaled air and record continuously. Test conditions are ambient atmospheric conditions. The ambient carbon dioxide level is measured 1 m in front of and level with the tips of the nose of the dummy head. The ambient level is measured once a stabilized level for carbon dioxide in the inhalation air has been attained. Alternatively, the ambient level of carbon dioxide may be measured at the sampling tube with the carbon dioxide supply turned off. Results are deemed acceptable only if the measured value of the ambient level of carbon dioxide is less than 0,1 %

Test results:
 The test results obtained are given in the tables as follows:

No. of Sample	Condition	CO ₂ content of the inhalation air [%] by volume	An average CO ₂ content of the inhalation air [%] by volume	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
41	As received	0,91	0,89	CO ₂ content of the inhalation air shall not exceed an average of 1,0% by volume	Passed
42		0,83			Filtering half masks fulfill requirements of the standard EN 149:2001 + A1:2009 given in 7.12
43		0,92			

*Note: The results given in this Test Report apply only to the sample tested by our laboratory!
 Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!*



Test Standard: EN 149:2001+A1:2009 / EN 13274-3:2001
Name of tests: Breathing Resistance Testing-Inhalation/Exhalation Resistance
Reference no: BRT-001

Test Purpose:
This test method is used to measure that inhalation and exhalation resistance values.

Sampling method:
A total of nine particle filtering half masks have been tested: three in the state as received, three the simulated wearing treatment and three samples after the temperature conditioning.

Testing methods used:
A test method for determining inhalation and exhalation resistance testing in accordance with standard EN 13274-3:2001 / EN 149:2001 + A1:2009 clause 7.16

Test conditions:
The six test samples were conditioned in accordance with temperature conditioning and simulated wearing treatment.

Test Principle:
The device is placed on a support as specified in the relevant device standard and connected to the respirator adjusted to the respiratory volume at the specified minute.
While respiratory resistance is reported; If the pressure inside the facial part is negative compared to atmospheric pressure during the inhalation resistance test, no sign is put in front of the result, and when the relative pressure inside the face protector is positive, a "+" sign is placed in front of the result.

Test Equipment:
A sinus-shaped breathing apparatus. Device support as described in the relevant device standard, for example, Sheffield mannequin head with attachments or mannequin body with attachments.
Calibrated within the appropriate range and the accuracy of the breathing resistance limit specified in the relevant device standard pressure gauge which is better than 10% of its value.

Test Procedure:
The respirator is adjusted in accordance with its shape to deliver the respiratory volume in the minute specified in the relevant device standard.
One mouth of the pressure meter is connected to the pressure mouth of the support of the device and the other mouth to the environment. The pressure gauge is connected to the recorder device.
The device is leakproofly mounted on the support without any deformity. For headers that seal the neck circumference, the relevant fitting should be used. The "zero" reading of the pressure gauge is noted. The breathing machine switch is opened and the device is operated as described in the relevant device standard and the peak pressure is recorded.

*Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!*

Test results:

The test results obtained are given in the tables as follows

Inhalation Resistance

No. of Sample	Condition	Inhalation Resistance (mbar)				Assessment of Test Result Conformity / Nonconformity
		Flow rate 30 l/min	Requirements in accordance with EN 149:2001+A1:2009	Flow rate 95 l/min	Requirements in accordance with EN 149:2001+A1:2009	
29	As received	0,5	FFP1 ≤ 0,60 FFP2 ≤ 0,70 FFP3 ≤ 1,0	1,5	FFP1 ≤ 2,10 FFP2 ≤ 2,40 FFP3 ≤ 3,00	Passed
30		0,4		1,3		Passed
31		0,5		1,6		Passed
1	Simulated wearing treatment	0,5		1,4		Passed
2		0,6		1,5		Passed
3		0,6		1,4		Passed
13	Temperature conditioned	0,5		1,6		Passed
14		0,5		1,7		Passed
15		0,5		1,7		Passed

Exhalation Resistance

No. of Sample	Condition	Flow rate	Facing directly	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
29	As received	160l/min	2,2	2,1	2,1	2,3	2,0	FFP1 ≤ 3,0	Passed
30			2,0	2,0	2,1	2,0	2,4		Passed
31			2,2	2,1	1,9	2,1	2,0		Passed
1	Simulated wearing treatment		2,2	2,2	2,0	2,3	2,4	FFP2 ≤ 3,0 FFP3 ≤ 3,0	Passed
2			2,0	2,3	2,0	2,0	2,2		Passed
3			2,1	2,3	2,0	2,1	2,1		Passed
13	Temperature conditioned		2,0	2,4	2,4	2,2	2,3	Passed	
14			2,1	2,2	2,1	2,2	2,1	Passed	
15			2,0	2,1	1,9	2,0	2,0	Passed	

*Note: The results given in this Test Report apply only to the sample tested by our laboratory!
Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!*

TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO: 28.04.2020 / 2163-PPE-640

Client: Guangdong YIDAO Medical Technology Co., LTD.

Address: Room 302, Building 2, No. 1, Lane 1, Xiju Road, Hengli, Dongguan City, Guangdong Province, P.R. CHINA

This report is for the, given above, manufacturer prepared according to the test results obtained for the product dated 25.04.2020 with ID 04-2020-T-053 based on EN 149: 2001 + A1: 2009 standard, The technical file of the manufacturer, and risk evaluation against the essential health safety requirements and the test report evaluated for their relation with Essential Requirements of Personal Protective Equipment Regulation and found to be appropriate.

This report is an annex and an integral part of the EU Type Examination Certificate No. 2163 - PPE - 639 issued to the manufacturer. The test results and issued certificate belongs only to the tested model. The technical report consists of a total of 7 pages.

Product Description : Particle Filtering Half Mask

Total Inward Leakage: Classification – FFP2

Trademark : YPHD

Model : YD-002



**THE CLAUSES OF EN 149: 2001 + A1: 2009 STANDARD RELATED TO EUROPEAN UNION DIRECTIVE
EU 2016/425 REQUIREMENTS**

1.1. Design principles

1.1.1. Ergonomics

PPE must be so designed and manufactured that in the foreseeable conditions of use for which it is intended the user can perform the risk related activity normally whilst enjoying appropriate protection of the highest possible level.

1.1.2. Levels and classes of protection

1.1.2.1. Highest level of protection possible

The optimum level of protection to be taken into account in the design is that beyond which the constraints by the wearing of the PPE would prevent its effective use during the period of exposure to the risk or normal performance of the activity.

1.1.2.2. Classes of protection appropriate to different levels of risk

Where differing foreseeable conditions of use are such that several levels of the same risk can be distinguished, appropriate classes of protection must be taken into account in the design of the PPE.

1.2. Innocuousness of PPE

1.2.1. Absence of risks and other inherent nuisance factors

PPE must be so designed and manufactured as to preclude risks and other nuisance factors under foreseeable conditions of use.

1.2.1.1. Suitable constituent materials

The materials of which the PPE is made, including any of their possible decomposition products, must not adversely affect the health or safety of users.

1.2.1.2. Satisfactory surface condition of all PPE parts in contact with the user

Any part of the PPE that is in contact or is liable to come into contact with the user when the PPE is worn must be free of rough surfaces, sharp edges, sharp points and the like which could cause excessive irritation or injuries

1.2.1.3. Maximum permissible user impediment

Any impediment caused by PPE to movements to be made, postures to be adopted and sensory perception must be minimized; nor must PPE cause movements which endanger the user or other persons.

1.3 Comfort and effectiveness

1.3.1. Adaptation of PPE to user morphology

PPE must be designed and manufactured in such a way as to facilitate its correct positioning on the user and to remain in place for the foreseeable period of use, bearing in mind ambient factors, the actions to be carried out and the postures to be adopted. For this purpose, it must be possible to adapt the PPE to fit the morphology of the user by all appropriate means, such as adequate adjustment and attachment systems or the provision of an adequate range of sizes.

1.3.2. Lightness and design strength

PPE must be as light as possible without prejudicing design strength and efficiency.

Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3), PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use

1.4. Information supplied by the manufacturer

The notes that must be drawn up by the former and supplied when PPE is placed on the market must contain all relevant information on:

- a) In addition to the name and address of the manufacturer and/or his authorized representative established in the Community
- b) Storage, use, cleaning, maintenance, servicing and disinfection. cleaning, maintenance or disinfectant protection recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;
- c) Performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in question;
- d) Suitable PPE accessories and the characteristics of appropriate spare parts;
- e) The classes of protection appropriate to different levels of risk and the corresponding limits of use;
- f) The obsolescence deadline period of obsolescence of PPE or certain of its components;
- g) The type of packaging suitable for transport;
- h) The significance of any markings (see 2.12)
- i) Where appropriate the references of the Directives applied in accordance with Article 5(6) (b);
- j) The name, address and identification number of the notified body involved in the design stage of the PPE

These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the member state of destination

2. ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.1. PPE incorporating adjustment systems

If PPE incorporates adjustment systems, the latter must be designed and manufactured so that, after adjustment, they do not become undone unintentionally in the foreseeable conditions of use.

2.3. PPE for the face, eyes and respiratory system

Any restriction of the user's face, eyes, field of vision or respiratory system by the PPE shall be minimised.

The screens for those types of PPE must have a degree of optical neutrality that is compatible with the degree of precision and the duration of the activities of the user.

If necessary, such PPE must be treated or provided with means to prevent misting-up.

Models of PPE intended for users requiring sight correction must be compatible with the wearing of spectacles or contact lenses.

2.4. PPE subject to ageing

If it is known that the design performance of new PPE may be significantly affected by ageing, the month and year of manufacture and/or, if possible, the month and year of obsolescence must be indelibly and unambiguously marked on each item of PPE placed on the market and on its packaging.

If the manufacturer is unable to give an undertaking with regard to the useful life of the PPE, his instructions must provide all the information necessary to enable the purchaser or user to establish a reasonable obsolescence month and year, taking into account the quality level of the model and the effective conditions of storage, use, cleaning, servicing and maintenance.

Where appreciable and rapid deterioration in PPE performance is likely to be caused by ageing resulting from the periodic use of a cleaning process recommended by the manufacturer, the latter must, if possible, affix a marking to each item of PPE placed on the market indicating the maximum number of cleaning operations that may be carried out before the equipment needs to be inspected or discarded. Where such a marking is not affixed, the manufacturer must give that information in his instructions.

2.6. PPE for use in potentially explosive atmospheres

PPE intended for use in potentially explosive atmospheres must be designed and manufactured in such a way that it cannot be the source of an electric, electrostatic or impact-induced arc or spark likely to cause an explosive mixture to ignite.

2.8. PPE for intervention in very dangerous situations

The instructions supplied by the manufacturer with PPE for intervention in very dangerous situations must include, in particular, data intended for competent, trained persons who are qualified to interpret them and ensure their application by the user.

The instructions must also describe the procedure to be adopted in order to verify that PPE is correctly adjusted and functional when worn by the user.

Where PPE incorporates an alarm which is activated in the absence of the level of protection normally provided, the alarm must be designed and placed so that it can be perceived by the user in the foreseeable conditions of use.

2.9. PPE incorporating components which can be adjusted or removed by the user

Where PPE incorporates components which can be attached, adjusted or removed by the user for replacement purposes, such components must be designed and manufactured so that they can be easily attached, adjusted and removed without tools.

2.12. PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of must preferably take the form of harmonized pictograms or ideograms and must remain perfectly legible throughout the foreseeable useful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation; in particular, where such marks incorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.

If PPE (or a PPE component) is too small to allow all or part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

3. ADDITIONAL REQUIREMENTS SPECIFIC TO PARTICULAR RISKS

3.10.2. Protection against cutaneous and ocular contact

PPE intended to prevent the surface contact of all or part of the body with substances and mixtures which are hazardous to health or with harmful biological agents must be capable of preventing the penetration or permeation of such substances and mixtures and agents through the protective integument under the foreseeable conditions of use for which the PPE is intended.

To this end, the constituent materials and other components of those types of PPE must be chosen or designed and incorporated so as to ensure, as far as possible, complete leak-tightness, which will allow where necessary prolonged daily use or, failing this, limited leak-tightness necessitating a restriction of the period of wear.

Where, by virtue of their nature and the foreseeable conditions of their use, certain substances and mixtures which are hazardous to health or harmful biological agents possess high penetrative power which limits the duration of the protection provided by the PPE in question, the latter must be subjected to standard tests with a view to their classification on the basis of their performance. PPE which is considered to be in conformity with the test specifications must bear a marking indicating, in particular, the names or, in the absence of the names, the codes of the substances used in the tests and the corresponding standard period of protection. The manufacturer's instructions must also contain, in particular, an explanation of the codes (if necessary), a detailed description of the standard tests and all appropriate information for the determination of the maximum permissible period of wear under the different foreseeable conditions of use.

Technical Assessment of EN 149: 2001 + A1: 2009 Standard and other Standards it refers to, Clauses Corresponding to the
(EU) 2016/425 Directive


Conforming to EN 149:2001 + A1:2009 Standard Requirements

<i>Article</i> 5	Classification : Particle Filtering Half Mask Total Inward Leakage: Classification – FFP2																																																																																																																														
<i>Article</i> 7.4	Packing: Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to prevent mechanical damage.																																																																																																																														
<i>Article</i> 7.5	Material: Materials used in particle filtering half masks, according to the simulated wearing treatment and temperature conditioning reports; It is understood withstand handling and wear over the period for which the particle filtering half mask is designed to be used, suffered mechanical failure of the facepiece or straps, any material from the filter media released by the air flow through the filter has not constitute a hazard or nuisance for the wearer.																																																																																																																														
<i>Article</i> 7.6	Cleaning and Disinfection: Particle filtering half mask is not designed to be as re-usable.																																																																																																																														
<i>Article</i> 7.7	<p>Practical Performance :</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Assessed Elements</th> <th>Positive</th> <th>Negative</th> <th>Requirements in accordance with EN 149:2001 + A1:2009 and Result</th> </tr> </thead> <tbody> <tr> <td>1.The face piece fitting</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> <td rowspan="6" style="text-align: center;">Positive results should be obtained from the performance tests related to the implementation under real conditions. No imperfections</td> </tr> <tr> <td>2.Head harness comfort</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> </tr> <tr> <td>3.Security of fastenings</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> </tr> <tr> <td>4.Speech clearness</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> </tr> <tr> <td>5.Field of vision</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> </tr> <tr> <td>6.Materials compatibility with skin</td> <td style="text-align: center;">2</td> <td style="text-align: center;">0</td> </tr> </tbody> </table> <p>Conditioning : (A.R.) As Received, original</p>	Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result	1.The face piece fitting	2	0	Positive results should be obtained from the performance tests related to the implementation under real conditions. No imperfections	2.Head harness comfort	2	0	3.Security of fastenings	2	0	4.Speech clearness	2	0	5.Field of vision	2	0	6.Materials compatibility with skin	2	0																																																																																																							
Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result																																																																																																																												
1.The face piece fitting	2	0	Positive results should be obtained from the performance tests related to the implementation under real conditions. No imperfections																																																																																																																												
2.Head harness comfort	2	0																																																																																																																													
3.Security of fastenings	2	0																																																																																																																													
4.Speech clearness	2	0																																																																																																																													
5.Field of vision	2	0																																																																																																																													
6.Materials compatibility with skin	2	0																																																																																																																													
<i>Article</i> 7.8	Finish of Parts: Particle filtering half masks, which are likely to come into contact with the user, do not have sharp edges and do not contain burrs.																																																																																																																														
<i>Article</i> 7.9.1	<p>Total Inward Leakage:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Test Subject</th> <th>No.of sample</th> <th>Condition</th> <th>1.Walk</th> <th>Head left /right</th> <th>Head up /down</th> <th>Speech</th> <th>2. Walk</th> <th>Average</th> </tr> </thead> <tbody> <tr><td>1</td><td>32</td><td>A.R</td><td>4,93</td><td>5,21</td><td>4,68</td><td>5,16</td><td>4,77</td><td>4,98</td></tr> <tr><td>2</td><td>33</td><td>A.R</td><td>4,96</td><td>5,32</td><td>4,81</td><td>5,50</td><td>4,79</td><td>5,07</td></tr> <tr><td>3</td><td>34</td><td>A.R</td><td>4,85</td><td>5,62</td><td>4,82</td><td>5,65</td><td>4,91</td><td>5,20</td></tr> <tr><td>4</td><td>35</td><td>A.R</td><td>4,77</td><td>5,56</td><td>4,72</td><td>5,49</td><td>4,66</td><td>5,01</td></tr> <tr><td>5</td><td>36</td><td>A.R</td><td>4,82</td><td>5,52</td><td>4,65</td><td>5,64</td><td>4,72</td><td>5,10</td></tr> <tr><td>6</td><td>16</td><td>T.C.</td><td>5,11</td><td>5,41</td><td>5,02</td><td>5,32</td><td>5,10</td><td>5,21</td></tr> <tr><td>7</td><td>17</td><td>T.C.</td><td>5,25</td><td>5,49</td><td>5,26</td><td>5,46</td><td>5,15</td><td>5,33</td></tr> <tr><td>8</td><td>18</td><td>T.C.</td><td>5,29</td><td>4,32</td><td>5,23</td><td>5,36</td><td>5,16</td><td>5,05</td></tr> <tr><td>9</td><td>19</td><td>T.C.</td><td>5,34</td><td>5,22</td><td>5,30</td><td>5,49</td><td>5,21</td><td>5,31</td></tr> <tr><td>10</td><td>20</td><td>T.C.</td><td>5,24</td><td>5,32</td><td>5,19</td><td>5,46</td><td>5,26</td><td>5,31</td></tr> <tr><td colspan="3">Average</td><td>5,06</td><td>5,30</td><td>4,97</td><td>5,45</td><td>4,97</td><td>5,16</td></tr> <tr><td colspan="3">Min</td><td>4,77</td><td>4,32</td><td>4,65</td><td>5,16</td><td>4,66</td><td>4,98</td></tr> <tr><td colspan="3">Max</td><td>5,34</td><td>5,62</td><td>5,30</td><td>5,51</td><td>5,26</td><td>5,33</td></tr> </tbody> </table> <p>Conditioning : (A.R.) As Received, original (T.C.) Temperature conditioning</p> <p style="text-align: right;">Results P (%) Leakage Value</p> <p style="text-align: center;">Results meet with FFP2 requirements</p>	Test Subject	No.of sample	Condition	1.Walk	Head left /right	Head up /down	Speech	2. Walk	Average	1	32	A.R	4,93	5,21	4,68	5,16	4,77	4,98	2	33	A.R	4,96	5,32	4,81	5,50	4,79	5,07	3	34	A.R	4,85	5,62	4,82	5,65	4,91	5,20	4	35	A.R	4,77	5,56	4,72	5,49	4,66	5,01	5	36	A.R	4,82	5,52	4,65	5,64	4,72	5,10	6	16	T.C.	5,11	5,41	5,02	5,32	5,10	5,21	7	17	T.C.	5,25	5,49	5,26	5,46	5,15	5,33	8	18	T.C.	5,29	4,32	5,23	5,36	5,16	5,05	9	19	T.C.	5,34	5,22	5,30	5,49	5,21	5,31	10	20	T.C.	5,24	5,32	5,19	5,46	5,26	5,31	Average			5,06	5,30	4,97	5,45	4,97	5,16	Min			4,77	4,32	4,65	5,16	4,66	4,98	Max			5,34	5,62	5,30	5,51	5,26	5,33
Test Subject	No.of sample	Condition	1.Walk	Head left /right	Head up /down	Speech	2. Walk	Average																																																																																																																							
1	32	A.R	4,93	5,21	4,68	5,16	4,77	4,98																																																																																																																							
2	33	A.R	4,96	5,32	4,81	5,50	4,79	5,07																																																																																																																							
3	34	A.R	4,85	5,62	4,82	5,65	4,91	5,20																																																																																																																							
4	35	A.R	4,77	5,56	4,72	5,49	4,66	5,01																																																																																																																							
5	36	A.R	4,82	5,52	4,65	5,64	4,72	5,10																																																																																																																							
6	16	T.C.	5,11	5,41	5,02	5,32	5,10	5,21																																																																																																																							
7	17	T.C.	5,25	5,49	5,26	5,46	5,15	5,33																																																																																																																							
8	18	T.C.	5,29	4,32	5,23	5,36	5,16	5,05																																																																																																																							
9	19	T.C.	5,34	5,22	5,30	5,49	5,21	5,31																																																																																																																							
10	20	T.C.	5,24	5,32	5,19	5,46	5,26	5,31																																																																																																																							
Average			5,06	5,30	4,97	5,45	4,97	5,16																																																																																																																							
Min			4,77	4,32	4,65	5,16	4,66	4,98																																																																																																																							
Max			5,34	5,62	5,30	5,51	5,26	5,33																																																																																																																							
<i>Article</i> 7.9.2	<p>Penetration of filter material: Sodium Chloride Testing</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Condition</th> <th>No. of Sample</th> <th>Sodium Chloride Testing 95 L/min max (%)</th> <th>Requirements in accordance with EN 149:2001 + A1:2009</th> <th>Result</th> </tr> </thead> <tbody> <tr><td>(A.R.)</td><td>23</td><td>3,82</td><td rowspan="9" style="text-align: center;">FFP1 ≤ 20 % FFP2 ≤ 6 % FFP3 ≤ 1 %</td><td rowspan="9" style="text-align: center;">Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)</td> </tr> <tr><td>(A.R.)</td><td>24</td><td>3,76</td> </tr> <tr><td>(A.R.)</td><td>25</td><td>3,90</td> </tr> <tr><td>(S.W.)</td><td>1</td><td>4,14</td> </tr> <tr><td>(S.W.)</td><td>2</td><td>4,16</td> </tr> <tr><td>(S.W.)</td><td>3</td><td>4,20</td> </tr> <tr><td>(M.S. T.C.)</td><td>7</td><td>4,45</td> </tr> <tr><td>(M.S. T.C.)</td><td>8</td><td>4,78</td> </tr> <tr><td>(M.S. T.C.)</td><td>9</td><td>4,69</td> </tr> </tbody> </table> <p>Conditioning : (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment</p> <p style="text-align: right;">95 L/min = 1,6 dm³.sn⁻¹</p>	Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result	(A.R.)	23	3,82	FFP1 ≤ 20 % FFP2 ≤ 6 % FFP3 ≤ 1 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)	(A.R.)	24	3,76	(A.R.)	25	3,90	(S.W.)	1	4,14	(S.W.)	2	4,16	(S.W.)	3	4,20	(M.S. T.C.)	7	4,45	(M.S. T.C.)	8	4,78	(M.S. T.C.)	9	4,69																																																																																												
Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result																																																																																																																											
(A.R.)	23	3,82	FFP1 ≤ 20 % FFP2 ≤ 6 % FFP3 ≤ 1 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)																																																																																																																											
(A.R.)	24	3,76																																																																																																																													
(A.R.)	25	3,90																																																																																																																													
(S.W.)	1	4,14																																																																																																																													
(S.W.)	2	4,16																																																																																																																													
(S.W.)	3	4,20																																																																																																																													
(M.S. T.C.)	7	4,45																																																																																																																													
(M.S. T.C.)	8	4,78																																																																																																																													
(M.S. T.C.)	9	4,69																																																																																																																													

	<p>Penetration of filter material: : Paraffin Oil Testing</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Condition</th> <th>No. of Sample</th> <th>Paraffin Oil Testing 95 L/min max (%)</th> <th>Requirements in accordance with EN 149:2001 + A1:2009</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>(A.R.)</td> <td>26</td> <td>4,27</td> <td rowspan="3">FFP1 ≤ 20 %</td> <td rowspan="12">Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)</td> </tr> <tr> <td>(A.R.)</td> <td>27</td> <td>4,20</td> </tr> <tr> <td>(A.R.)</td> <td>28</td> <td>4,16</td> </tr> <tr> <td>(S.W.)</td> <td>4</td> <td>3,94</td> <td rowspan="2">FFP2 ≤ 6 %</td> </tr> <tr> <td>(S.W.)</td> <td>5</td> <td>3,88</td> </tr> <tr> <td>(S.W.)</td> <td>6</td> <td>3,76</td> <td rowspan="5">FFP3 ≤ 1 %</td> </tr> <tr> <td>(M.S. T.C.)</td> <td>10</td> <td>4,26</td> </tr> <tr> <td>(M.S. T.C.)</td> <td>11</td> <td>4,27</td> </tr> <tr> <td>(M.S. T.C.)</td> <td>12</td> <td>4,36</td> </tr> </tbody> </table> <p>Conditioning : (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment</p>	Condition	No. of Sample	Paraffin Oil Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result	(A.R.)	26	4,27	FFP1 ≤ 20 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)	(A.R.)	27	4,20	(A.R.)	28	4,16	(S.W.)	4	3,94	FFP2 ≤ 6 %	(S.W.)	5	3,88	(S.W.)	6	3,76	FFP3 ≤ 1 %	(M.S. T.C.)	10	4,26	(M.S. T.C.)	11	4,27	(M.S. T.C.)	12	4,36														
Condition	No. of Sample	Paraffin Oil Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result																																															
(A.R.)	26	4,27	FFP1 ≤ 20 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)																																															
(A.R.)	27	4,20																																																	
(A.R.)	28	4,16																																																	
(S.W.)	4	3,94	FFP2 ≤ 6 %																																																
(S.W.)	5	3,88																																																	
(S.W.)	6	3,76	FFP3 ≤ 1 %																																																
(M.S. T.C.)	10	4,26																																																	
(M.S. T.C.)	11	4,27																																																	
(M.S. T.C.)	12	4,36																																																	
Article 7.10	<p>Compatibility with skin: In Practical Performance report, the likelihood of mask materials in contact with the skin causing irritation or other adverse effect on health was not reported.</p>																																																		
Article 7.11	<p>Flammability :</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Condition</th> <th>No. of Sample</th> <th>Visual inspection</th> <th>Requirements in accordance with EN 149:2001 + A1:2009</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>(A.R.)</td> <td>32</td> <td>1,4</td> <td rowspan="5">Filtering half mask shall not burn or not continue to burn for more than 5 s after removal from the flame</td> <td rowspan="5">Passed Filtering half masks fulfill requirements of the standard</td> </tr> <tr> <td>(A.R.)</td> <td>33</td> <td>1,3</td> </tr> <tr> <td>(T.C.)</td> <td>21</td> <td>1,2</td> </tr> <tr> <td>(T.C.)</td> <td>22</td> <td>1,1</td> </tr> </tbody> </table> <p>Conditioning : (A.R.) As Received, original (T.C.) Temperature Conditioning</p>	Condition	No. of Sample		Visual inspection	Requirements in accordance with EN 149:2001 + A1:2009	Result	(A.R.)	32	1,4	Filtering half mask shall not burn or not continue to burn for more than 5 s after removal from the flame	Passed Filtering half masks fulfill requirements of the standard	(A.R.)	33	1,3	(T.C.)	21	1,2	(T.C.)	22	1,1																														
Condition	No. of Sample	Visual inspection	Requirements in accordance with EN 149:2001 + A1:2009		Result																																														
(A.R.)	32	1,4	Filtering half mask shall not burn or not continue to burn for more than 5 s after removal from the flame	Passed Filtering half masks fulfill requirements of the standard																																															
(A.R.)	33	1,3																																																	
(T.C.)	21	1,2																																																	
(T.C.)	22	1,1																																																	
Article 7.12	<p>Carbon dioxide content of the inhalation air:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Condition</th> <th>No. of Sample</th> <th>CO₂ content of the inhalation air [%] by volume</th> <th>An average CO₂ content of the inhalation air</th> <th>Requirements in accordance with EN 149:2001 + A1:2009</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>(A.R.)</td> <td>41</td> <td>0,91</td> <td rowspan="3">0,89</td> <td rowspan="3">CO₂ content of the inhalation air shall not exceed an average of 1,0% by volume</td> <td rowspan="3">Passed Filtering half masks fulfill requirements of the standard</td> </tr> <tr> <td>(A.R.)</td> <td>42</td> <td>0,83</td> </tr> <tr> <td>(A.R.)</td> <td>43</td> <td>0,92</td> </tr> </tbody> </table> <p>Conditioning : (A.R.) As Received, original</p>	Condition			No. of Sample	CO ₂ content of the inhalation air [%] by volume	An average CO ₂ content of the inhalation air	Requirements in accordance with EN 149:2001 + A1:2009	Result	(A.R.)	41	0,91	0,89	CO ₂ content of the inhalation air shall not exceed an average of 1,0% by volume	Passed Filtering half masks fulfill requirements of the standard	(A.R.)	42	0,83	(A.R.)	43	0,92																														
Condition	No. of Sample	CO ₂ content of the inhalation air [%] by volume	An average CO ₂ content of the inhalation air	Requirements in accordance with EN 149:2001 + A1:2009	Result																																														
(A.R.)	41	0,91	0,89	CO ₂ content of the inhalation air shall not exceed an average of 1,0% by volume	Passed Filtering half masks fulfill requirements of the standard																																														
(A.R.)	42	0,83																																																	
(A.R.)	43	0,92																																																	
Article 7.13	<p>Head harness: In Practical Performance report, No adverse effects have been reported for holding the mask of the head harness firmly in position, for total inward leakage properties.</p>																																																		
Article 7.14	<p>Field of vision : In Practical Performance report, No adverse effects were reported for the field of vision features.</p>																																																		
Article 7.16	<p>Breathing Resistance: Inhalation</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Condition</th> <th rowspan="2">No. of Sample</th> <th rowspan="2">Flow Rate 30 L/min</th> <th colspan="2">Inhalation Resistance (mbar)</th> <th rowspan="2">Requirements in accordance with EN 149:2001 + A1:2009</th> <th rowspan="2">Result</th> </tr> <tr> <th>Requirements in accordance with EN 149:2001 + A1:2009</th> <th>Flow Rate 95 L/min</th> </tr> </thead> <tbody> <tr> <td>(A.R.)</td> <td>29</td> <td>0,5</td> <td rowspan="3">FFP1 ≤ 0,6</td> <td>1,5</td> <td rowspan="5">FFP1 ≤ 2,1 FFP2 ≤ 2,4 FFP3 ≤ 3,0</td> <td rowspan="12">Passed</td> </tr> <tr> <td>(A.R.)</td> <td>30</td> <td>0,4</td> <td>1,3</td> </tr> <tr> <td>(A.R.)</td> <td>31</td> <td>0,5</td> <td>1,6</td> </tr> <tr> <td>(S.W.)</td> <td>1</td> <td>0,5</td> <td rowspan="2">FFP2 ≤ 0,7</td> <td>1,4</td> </tr> <tr> <td>(S.W.)</td> <td>2</td> <td>0,6</td> <td>1,5</td> </tr> <tr> <td>(S.W.)</td> <td>3</td> <td>0,6</td> <td rowspan="5">FFP3 ≤ 1,0</td> <td>1,4</td> </tr> <tr> <td>(T.C.)</td> <td>13</td> <td>0,5</td> <td>1,6</td> </tr> <tr> <td>(T.C.)</td> <td>14</td> <td>0,5</td> <td>1,7</td> </tr> <tr> <td>(T.C.)</td> <td>15</td> <td>0,5</td> <td>1,7</td> </tr> </tbody> </table> <p>Conditioning : (A.R.) As Received, original (S.W.) Simulated wearing treatment (T.C.) Temperature Conditioning</p>	Condition	No. of Sample	Flow Rate 30 L/min	Inhalation Resistance (mbar)		Requirements in accordance with EN 149:2001 + A1:2009	Result	Requirements in accordance with EN 149:2001 + A1:2009	Flow Rate 95 L/min	(A.R.)	29	0,5	FFP1 ≤ 0,6	1,5	FFP1 ≤ 2,1 FFP2 ≤ 2,4 FFP3 ≤ 3,0	Passed	(A.R.)	30	0,4	1,3	(A.R.)	31	0,5	1,6	(S.W.)	1	0,5	FFP2 ≤ 0,7	1,4	(S.W.)	2	0,6	1,5	(S.W.)	3	0,6	FFP3 ≤ 1,0	1,4	(T.C.)	13	0,5	1,6	(T.C.)	14	0,5	1,7	(T.C.)	15	0,5	1,7
Condition	No. of Sample				Flow Rate 30 L/min	Inhalation Resistance (mbar)			Requirements in accordance with EN 149:2001 + A1:2009	Result																																									
		Requirements in accordance with EN 149:2001 + A1:2009	Flow Rate 95 L/min																																																
(A.R.)	29	0,5	FFP1 ≤ 0,6	1,5	FFP1 ≤ 2,1 FFP2 ≤ 2,4 FFP3 ≤ 3,0	Passed																																													
(A.R.)	30	0,4		1,3																																															
(A.R.)	31	0,5		1,6																																															
(S.W.)	1	0,5	FFP2 ≤ 0,7	1,4																																															
(S.W.)	2	0,6		1,5																																															
(S.W.)	3	0,6	FFP3 ≤ 1,0	1,4																																															
(T.C.)	13	0,5		1,6																																															
(T.C.)	14	0,5		1,7																																															
(T.C.)	15	0,5		1,7																																															

Article	Breathing Resistance : Exhalation					
	Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Exhalation Resistance Requirements in accordance with EN 149:2001 + A1:2009	Result
Article 7.16	(A.R.)	29	Facing directly	2,2	FFP1 ≤ 3	Passed
			Facing vertically upwards	2,1		
			Facing vertically downwards	2,1		
			Lying on the left side	2,3		
			Lying on the right side	2,0		
	(A.R.)	30	Facing directly	2,0	FFP2 ≤ 3	
			Facing vertically upwards	2,0		
			Facing vertically downwards	2,1		
			Lying on the left side	2,0		
			Lying on the right side	2,4		
Conditioning : (A.R.) As Received, original						
Article 7.16	Breathing Resistance : Exhalation					
	Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Exhalation Resistance Requirements in accordance with EN 149:2001 + A1:2009	Result
	(A.R.)	31	Facing directly	2,2	FFP1 ≤ 3	Passed
			Facing vertically upwards	2,1		
			Facing vertically downwards	1,9		
			Lying on the left side	2,1		
			Lying on the right side	2,0		
	(S.W.)	1	Facing directly	2,2	FFP2 ≤ 3	
			Facing vertically upwards	2,2		
			Facing vertically downwards	2,0		
Lying on the left side			2,3			
Lying on the right side			2,4			
Conditioning : (A.R.) As Received, original (S.W.) Simulated wearing treatment						
Article 7.16	Breathing Resistance : Exhalation					
	Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Exhalation Resistance Requirements in accordance with EN 149:2001 + A1:2009	Result
	(S.W.)	2	Facing directly	2,0	FFP1 ≤ 3	Passed
			Facing vertically upwards	2,3		
			Facing vertically downwards	2,0		
			Lying on the left side	2,0		
			Lying on the right side	2,2		
	(S.W.)	3	Facing directly	2,1	FFP2 ≤ 3	
			Facing vertically upwards	2,3		
			Facing vertically downwards	2,0		
Lying on the left side			2,1			
Lying on the right side			2,1			
Conditioning : (S.W.) Simulated wearing treatment						
Article 7.16	Breathing Resistance : Exhalation					
	Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Exhalation Resistance Requirements in accordance with EN 149:2001 + A1:2009	Result
	(T.C.)	13	Facing directly	2,0	FFP1 ≤ 3	Passed
			Facing vertically upwards	2,4		
			Facing vertically downwards	2,4		
			Lying on the left side	2,2		
			Lying on the right side	2,3		
	(T.C.)	14	Facing directly	2,1	FFP2 ≤ 3	
			Facing vertically upwards	2,2		
			Facing vertically downwards	2,1		
Lying on the left side			2,2			
Lying on the right side			2,1			
Conditioning : (T.C.) Temperature Conditioning						

Article	Breathing Resistance : <u>Exhalation</u>					
	Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Exhalation Resistance Requirements in accordance with EN 149:2001 + A1:2009	Result
Article 7.16	(T.C.)	15	Facing directly	2.0	FFP1 ≤ 3	Passed
			Facing vertically upwards	2.1		
			Facing vertically downwards	1.9		
			Lying on the left side	2.0		
			Lying on the right side	2.0		
Conditioning : (T.C.) Temperature Conditioning						
Article 7.17.2	Clogging : This test is not applied to Particle Filtering Half Mask which is not reusable. (For single shift use devices, the clogging test is optional test. For re-usable devices test is mandatory.)					
Article 7.17.3	Penetration of filter material: This test is not applied to Particle Filtering Half Mask which is not reusable.					
Article 7.18	Demountable Parts: There are no demountable parts on the product.					
Article 9	Marking – Packaging: Necessary markings are available on the product and its packaging.					
Article 10	Information to be supplied by the manufacturer: In each of the smallest commercially available packaging of the product, implementation (installation instruction) pre-use controls, warning and usage limitations, storage and meanings of symbols / pictograms are defined.					

PREPARED BY	APPROVED BY
Mert TÜKENMEZ PPE Expert 	Suat KAÇMAZ General Manager 