

Mascarillas FFP2 con certificado europeo CE (embolsadas individualmente - caja de 10 unidades)





Características técnicas:

- Cumplen con la normativa EN 149:2001+A1:2009
- Eficiencia de filtrado >95%
- Certificado europeo 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 armonizadas, 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
- Aumenta efectivamente el tiempo de uso en un 30%.
- No irrita la piel, absorbe el agua, es cómoda y suave.
- Puente nasal interior de alta estabilidad.
- Testeada y probada su eficacia en laboratorios. Este certificado de cumplimiento se ha otorgado en función de los resultados de las pruebas realizadas por BEFTILAT Test Technology Shangay., Ltd. Acreditada por IAS (International Accreditation Service).
- Medios filtrantes de alto rendimiento con baja resistencia a la respiración.
- Excepcional comodidad y ajuste de la mascarilla para los usuarios.







Verify the validity with the QR code



NB 2163

EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163 - PPE-730

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

Zhejiang Luyao Electronics Technology Co., Ltd.

Wei 1st Road Mechanical Park, Wanquan Light Industrial Base Pingyang, Wenzhou, Zhejiang, 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.

Product Definition

Brand Name: LUYAO Model: LY-N900-N909 Filtering half mask

Classification:FFP2 NR

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 09 /06/2020 and will be valid for 5 years, if there is no change in the relevant harmonised standard affecting the essential health and safety requirements.







Verify the validity with the OR code



NB 2163

CERTIFICATE OF CONFORMANCE

Certificate No: 2163 - PPE - 730/01

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

Zhejiang Luyao Electronics Technology Co., Ltd.

Wei 1st Road Mechanical Park, Wanquan Light Industrial Base Pingyang, Wenzhou, Zhejiang, 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.

Product Definition

| Model | odel Class | | EU Type Examination Certificate | | |
|----------------------|------------|---------------|---------------------------------|---------------|--|
| Model | Class | Serial No | Date | Issuing NB No | |
| LUYAO / LY-N900-N909 | FFP2 NR | 2163-PPE -730 | 09.06.2020 | 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 09/06/2020 and will be valid for one year, until 08/06/2021 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.



UNIVERSAL CERTIFICATION Director







Test Report SL52105232497601TX Date: March 01,2021 Page 1 of 10

ZHEJIANG LUYAO ELECTRONICS TECHNOLOGY CO.,LTD
WEI 1ST ROAD,MECHANICAL PARK,WANQUAN LIGHT INDUSTRIAL BASE,PINGYANG
COUNTY,WENZHOU CITY,ZHEJIANG PROVINCE,CHINA

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

Sample Description : (A)Filtering half mask

Sample Color : (A)white Style No. : LY-N901

Manufacturer : ZHEJIANG LUYAO ELECTRONICS TECHNOLOGY CO.,LTD Supplier : ZHEJIANG LUYAO ELECTRONICS TECHNOLOGY CO.,LTD

Retest : No

Proposed Care Instruction: /

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

Sample Receiving Date : Feb 08, 2021

Testing Period : Feb 08, 2021 - Mar 01, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the

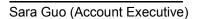
sample(s) tested, for further details, please refer to the following page(s).

Conclusion:

| Sample No. | Recommendation Level |
|------------|----------------------|
| (A) | FFP2 NR |

Signed for and on behalf of

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





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Test Result

<u>Personal Protective Equipment - Respiratory Protective Devices- Filtering Half Masks to Protect against Particles- Requirements, Testing, Marking</u>

Date: March 01,2021

EN 149:2001+A1:2009

Clause 7.4 Packaging

(EN 149:2001+A1:2009 Clause 8.2)

| Test Requirement | Results | Comment |
|--|---------|---------|
| Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination | Comply | Pass |
| before use. | | |

Clause 7.5 Material

(EN 149:2001+A1:2009, Clause 8.2 & 8.3.1 & 8.3.2)

| Test Requirement | Results | Comment |
|---|---------|---------|
| Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used. | Comply | |
| After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps. | Comply | Pass |
| When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse. | Comply | |
| Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer. | Comply | |

Clause 7.6 Cleaning and Disinfecting

(EN 149:2001+A1:2009, Clause 8.4 & 8.5 & 8.11)

| Test Requirement | Results | Comment |
|--|---|---------|
| 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. | Not applicable (Not designed to be re-usable) | N.A. |

Clause 7.7 Practical Performance

(EN 149:2001+A1:2009, Clause 8.4)

| Test Requirement | Results | Comment |
|---|------------------|---------|
| The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard. | No imperfections | Pass |



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Test Report SL52105232497601TX Clause 7.8 Finish of Parts

(EN 149:2001+A1:2009, Clause 8.2)

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| Test Requirement | Results | Comment |
|---|-------------------------|---------|
| Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs. | No sharp edges or burrs | Pass |

Clause 7.9.1 Total Inward Leakage

(EN 149:2001+A1:2009, Clause 8.5)

| Test Requirement | Results | Comment |
|--|-------------------------------|-------------------------|
| The total inward leakage consists of three components: face seal leakage, exhalation valve leakage (if exhalation valve fitted) and filter penetration. For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual exercise results (i.e. 10 subjects x 5 exercises) for total inward leakage shall be not greater than: 25% for FFP1, 11% for FFP2, 5% for FFP3 and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than: 22% for FFP1, 8% for FFP2, 2% for FFP3 | Detail refer to Appendix 1 | Meet FFP1, Meet FFP2 |

Appendix 1: Summarization of Test Data

Inward Leakage Test Data

| Subject | Sample | Condition | Walk(%) | Head | Head | Talk(%) | Walk(%) | Mean(%) |
|---------|--------|-----------|---------|--------------|------------|---------|---------|---------|
| | No. | | , , | Side/side(%) | up/down(%) | , , | , , | , , |
| Zhou | 1 | A.R. | 4.50 | 4.44 | 4.19 | 4.56 | 3.10 | 4.16 |
| Luo | 2 | A.R. | 4.54 | 4.97 | 5.15 | 5.61 | 5.54 | 5.16 |
| Lu | 3 | A.R. | 4.60 | 4.02 | 4.24 | 4.50 | 4.28 | 4.33 |
| Wang | 4 | A.R. | 2.66 | 2.42 | 3.95 | 3.49 | 3.79 | 3.26 |
| Bao | 5 | A.R. | 5.96 | 5.21 | 4.28 | 5.56 | 5.91 | 5.38 |
| Ding | 6 | T.C. | 3.77 | 3.35 | 3.59 | 3.47 | 3.38 | 3.51 |
| Li | 7 | T.C. | 5.67 | 5.43 | 5.91 | 5.32 | 5.19 | 5.50 |
| Chen | 8 | T.C. | 3.89 | 3.46 | 3.28 | 3.94 | 3.53 | 3.62 |
| Song | 9 | T.C. | 4.54 | 4.22 | 4.65 | 5.10 | 4.33 | 4.57 |
| Ye | 10 | T.C. | 6.11 | 5.37 | 5.56 | 6.49 | 5.89 | 5.88 |

Facial Dimension

| Subject | Face length | Face Width | Face Depth | Mouth Width |
|---------|-------------|------------|------------|-------------|
| Chen | 125 | 150 | 120 | 58 |
| Lu | 115 | 132 | 107 | 48 |
| Zhou | 115 | 135 | 106 | 52 |
| Li | 125 | 130 | 107 | 46 |
| Luo | 125 | 136 | 100 | 43 |
| Zheng | 128 | 140 | 112 | 55 |
| Wang | 120 | 147 | 103 | 48 |
| Song | 120 | 140 | 100 | 50 |
| Bao | 130 | 134 | 104 | 50 |
| Ding | 134 | 150 | 110 | 52 |



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|--------------------|-----|---------------|---------------------|--------------|
| Liu | 120 | 135 | 117 | 50 |
| Ye | 126 | 137 | 105 | 52 |

Clause 7.9.2 Penetration of Filter Material

(EN 149:2001+A1:2009, Clause 8.11 & EN 13274-7:2019)

| | Test Requirement | Results | Comment | |
|------------|---|----------------------------|-----------------|-------------------------|
| | of the filter of the particle filter the following table. | е | | |
| Classifica | Maximum penetration | | | |
| tion | Sodium chloride test 95 l/min | Paraffin oil test 95 l/min | Detail refer to | Meet FFP1, |
| | % | % | Appendix 2 | Meet FFP2, Meet FFP3 |
| | max. | max. | | Meet FFP3 |
| FFP1 | 20 | 20 | | |
| FFP2 | 6 | 6 | | |
| FFP3 | 1 | 1 | | |

Appendix 2: Summarization of Test Data

Penetration of filter material

| Aerosol | Condition | Sample No. | Penetration (%) | | | | | |
|----------------------|--|-----------------------------------|--------------------|--|--|--|--|--|
| | | 1 | 0.212 | | | | | |
| | As received | 2 | 0.211 | | | | | |
| | | 3 | 0.236 | | | | | |
| | | 4 | 0.241 | | | | | |
| Sodium chloride test | Simulated wearing treatment | mulated wearing treatment 5 0.225 | | | | | | |
| | | 6 | 0.218 | | | | | |
| | Machaniaal atropath . Taranaratura | 7 | 0.475 | | | | | |
| | Mechanical strength +Temperature conditioned | 8 | 0.397 | | | | | |
| | Conditioned | 9 | 0.453 | | | | | |
| | | 10 | 0.324 | | | | | |
| | As received | 11 | 0.379 | | | | | |
| | | 12 | 0.331 | | | | | |
| | | 13 | 0.351 | | | | | |
| Paraffin oil test | Simulated wearing treatment | 14 | 0.362 | | | | | |
| | | 15 | 0.373 | | | | | |
| | Machaniaal atropath . Taranaratura | 16 | 0.791 | | | | | |
| | Mechanical strength +Temperature conditioned | 17 | 0.885 | | | | | |
| | Conditioned | 18 | 0.864 | | | | | |
| | Flow conditioning: Single fil | ter: 95.0 L/min | | | | | | |



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Clause 7.10 Compatibility with Skin

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

| Test Requirement | Results | Comment |
|--|---|---------|
| Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health. | No irritation or any other adverse effect to health | Pass |

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Clause 7.11 Flammability

(EN 149:2001+A1:2009, Clause 8.6)

| Test Requirement | Results | Comment |
|---|-----------------|---------|
| The material used shall not present a danger for the wearer and shall not be of highly flammable nature | Detail refer to | Pass |
| When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5 s after removal from the flame. | Appendix 3 | F 435 |

Appendix 3: Summarization of Test Data

Flammability

| Condition | Sample No. | Result |
|-------------------------|------------|--------|
| | 1 | NIL |
| As received | 2 | NIL |
| | 3 | NIL |
| Temperature conditioned | 4 | NIL |

Clause 7.12 Carbon Dioxide Content of The Inhalation Air

(EN 149:2001+A1:2009, Clause 8.7)

| Test Requirement | Results | Comment |
|---|-----------------|---------|
| The carbon dioxide content of the inhalation air (dead space) shall not | Detail refer to | Pass |
| exceed an average of 1,0 % (by volume) | Appendix 4 | 1 433 |

Appendix 4: Summarization of Test Data

Carbon Dioxide Content of The Inhalation Air

| Condition | Sample No. | Result | | | | |
|-------------|------------|--------|-----------------|--|--|--|
| | 1 | 0.5824 | | | | |
| As received | 2 | 0.5811 | Mean value:0.58 | | | |
| | 3 | 0.5819 | | | | |



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Clause 7.13 Head Harness

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

| Test Requirement | Results | Comment |
|---|---------|---------|
| The head harness shall be designed so that the particle filtering half mask can be donned and removed easily. | Comply | |
| The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device. | Comply | Pass |

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Clause 7.14 Field of Vision

(EN 149:2001+A1:2009, Clause 8.4)

| Test Requirement | Results | Comment |
|--|---------|---------|
| The field of vision is acceptable if determined so in practical performance tests. | Comply | Pass |

Clause 7.15 Exhalation Valve(s)

(EN 149:2001+A1:2009, Clause 8.2 & 8.9.1 & 8.3.4 & 8.8)

| Test Requirement | Results | Comment |
|---|---|---------|
| (a) A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations. | Not applicable due to No exhalation valve | |
| (b) If an exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device that may be necessary for the particle filtering half mask to comply with 7.9. | Not applicable due to No exhalation valve | N.A. |
| (c) Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s. | Not applicable due to No exhalation valve | |
| (d) When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10N applied for 10 s. | Not applicable due to No exhalation valve | |



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Clause 7.16 Breathing Resistance

(EN 149:2001+A1:2009, Clause 8.9)

| | Tes | | Results | Comment | | |
|----------------|----------|--|--|---------|-----------------|------------|
| | | y to valved and val requirements of the | veless particle filter following table. | ing | | |
| Classification | Maximu | ım permitted resist | ance (mbar) | | Datallastanta | Meet FFP1, |
| | Inh | nalation | Exhalation | | Detail refer to | Meet FFP2, |
| | 30 l/min | 95 l/min | 160 l/min | | Appendix 5 | Meet FFP3 |
| FFP1 | 0.6 | 2.1 | 3.0 | | | |
| FFP2 | 0.7 | 2.4 | 3.0 | | | |
| FFP3 | 1.0 | 3.0 | 3.0 | | | |

Appendix 5: Summarization of Test Data

Breathing resistance (mbar)

| | Flow rata(I/min) | | 1 | | | 2 | | | | | 3 | | | | | | |
|-------------------------|------------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Flow rate(I/ | Flow rate(I/min) | | В | O | D | Е | Α | В | C | ם | Е | Α | В | С | D | Е |
| As received | Inhalation | 30 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 |
| | IIIIaiatioii | 95 | 1.4 | 1.4 | 1.3 | 1.3 | 1.4 | 1.4 | 1.3 | 1.4 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 1.3 |
| | Exhalation | 160 | 2.3 | 2.3 | 2.3 | 2.3 | 2.2 | 2.2 | 2.3 | 2.3 | 2.3 | 2.2 | 2.3 | 2.2 | 2.3 | 2.3 | 2.3 |
| | | | | | 4 | | | 5 | | | | 6 | | | | | |
| Simulated | Flow rate(I/ | min) | Α | В | C | D | Е | Α | В | С | ם | Е | Α | В | С | D | Ε |
| wearing | Inhalation | 30 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 |
| treatment | IIIIaiatioii | 95 | 1.3 | 1.4 | 1.4 | 1.4 | 1.3 | 1.3 | 1.4 | 1.3 | 1.4 | 1.4 | 1.4 | 1.3 | 1.4 | 1.3 | 1.3 |
| | Exhalation | 160 | 2.3 | 2.3 | 2.2 | 2.2 | 2.3 | 2.3 | 2.2 | 2.2 | 2.3 | 2.2 | 2.3 | 2.3 | 2.2 | 2.3 | 2.3 |
| | 5 1 | /!\ | | | 7 | | | | | 8 | | | 9 | | | | |
| | Flow rate(I/ | min) | Α | В | O | D | Е | Α | В | С | D | Е | Α | В | С | D | Ε |
| Temperature conditioned | Inhalation | 30 | 0.3 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.3 | 0.3 | 0.4 | 0.3 | 0.3 |
| | IIIIIaialiOII | 95 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.3 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.4 |
| | Exhalation | 160 | 2.2 | 2.3 | 2.2 | 2.2 | 2.2 | 2.3 | 2.2 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.2 | 2.2 | 2.2 |

A: facing directly ahead; B: facing vertically upwards; C: facing vertically downwards; D: lying on the left side; E: lying on the right side



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Test Report Clause 7.17 Clogging

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(EN 149:2001+A1:2009, Clause 8.9 & 8.10)

| ı | Test Requirement | | Results | Comment | | | | | | |
|--|--|---------------------------------------|---------------------|---------|--|--|--|--|--|--|
| Valved particle fill After clogging the FFP1: 4 mbar, FF The exhalation re flow. | eathing resistance tering half masks: inhalation resistances shall not FP2: 5 mbar, FFP3: 7 mbar at 95 esistance shall not exceed 3 mb | Optional for single shift device only | N.A. | | | | | | | |
| After clogging the | e inhalation and exhalation resist FP2: 4 mbar, FFP3: 5 mbar at 95 | | | | | | | | | |
| All types (valved meet the clogging | netration of filter material and valveless) of particle filter grequirement shall also meet the | e requirements. | | | | | | | | |
| Classificatio | Maximum penetration | | | | | | | | | |
| n | Sodium chloride test 95 l/min | Paraffin oil test 95 l/min | Optional for single | N.A. | | | | | | |
| | % | % | shift device only | | | | | | | |
| | max. | | | | | | | | | |
| FFP1 | 20 | | | | | | | | | |
| FFP2 | 6 | | | | | | | | | |
| FFP3 | 1 | 1 | | | | | | | | |

Clause 7.18 Demountable Parts

(EN 149:2001+A1:2009, Clause 8.2)

| Test Requirement | Results | Comment |
|--|----------------------|---------|
| All demountable parts (if fitted) shall be readily connected and secured, where possible by hand | No demountable parts | N.A. |

| Test | Uncertainty |
|--|-------------|
| Total inward leakage | 3.4% |
| Penetration of filter material | 4.8% |
| Carbon dioxide content of the inhalation air | 3.9% |
| Breathing resistance (30L/min) | 5.9% |
| Breathing resistance (95L/min) | 4.9% |
| Breathing resistance (160L/min) | 4.3% |



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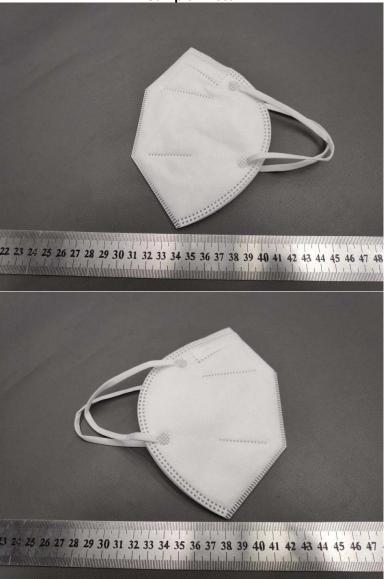


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Sample Photo

Date: March 01,2021





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End of Report



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