



中国认可
国际互认
检测
TESTING
CNAS L1225



TEST REPORT

Report No.: 4478420070583

Product Name: Head-mounted Disposable Protective Mask

Product Model: JH-068

Applicant: Ningbo Haishu Junheng Fashion Co., Ltd.



CHINA CERTIFICATION & INSPECTION GROUP SHENZHEN CO., LTD.
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO., LTD.





Report No.:4478420070583

Date: 07 27, 2020

Test Report

| | | | |
|--------------------|---|----------------------------------|-------------------------|
| Applicant | Ningbo Haishu Junheng Fashion Co., Ltd. | | |
| Address | Fengjia Village shiqi Haishu Areh Ningbo Zhejiang China | | |
| Manufacturer | Ningbo Haishu Junheng Fashion Co., Ltd. | | |
| Address | Fengjia Village shiqi Haishu Areh Ningbo Zhejiang China | | |
| Product name | Head-mounted Disposable Protective Mask | | |
| Product model | JH-068 | | |
| Product quantity | 100PCS | | |
| Size | 185MM*83MM | | |
| Lot number | 20200718 | | |
| Product state | Meeting the requirements of testing | | |
| Testing Laboratory | Shenzhen huatongwei international inspection Co., Ltd. | | |
| Test Location | 1/F, Bldg. 9, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, Guangdong, China | | |
| Test standard | EN 149:2001+A1:2009 Respiratory protective devices — Filtering half masks to protect against particles — Requirements, testing, marking | | |
| Test requested | As specified by applicant, for details refer to page 3. | | |
| Test results | Refer to page 3. | | |
| Remark | The product information was provided by applicant. The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory. | | |
| Received date | 07 21, 2020 | Date (s) of performance of tests | 07 21, 2020~07 27, 2020 |

Signed:



Authorized Signatory, Lab Director

Issued: 2020-07-27



| | |
|---|--|
| Sample Description: | White mask |
| Type of use | <input type="checkbox"/> Re-useable particle filtering half mask <input checked="" type="checkbox"/> Single shift only particle filtering half mask |
| Classification | <input type="checkbox"/> FFP1 <input type="checkbox"/> FFP2 <input checked="" type="checkbox"/> FFP3 |
| Exhalation Valve(s) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Inhalation Valve(s) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Possible test case verdicts: | |
| - test case does not apply to the test object | N/A |
| - test object does meet the requirement | P (Pass) |
| - test object does not meet the requirement | F (Fail) |
| - test case does not be required to the object | N/R (Not required) |
| Possible abbreviations | |
| As received | A.R. |
| Simulated Wearing treatment | S.W. |
| Temperature conditioned | T.C. |
| Flow conditioned | F.C. |
| Cleaning and disinfecting | C.D. |
| Mechanical strength | M.S. |
| Environmental condition of testing in this report: | |
| 1) Unless otherwise specified, the ambient temperature for testing shall be 25±5°C; 2) Temperature conditioned: 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. | |





Test Requested:

| REQUIRMENT | Test clause | Applicant | Result | |
|---|------------------------|-------------------------------------|-------------------------------------|--------------------------|
| | | | P | F |
| 7.3 Visual inspection | 8.2 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7.4 Packaging | 8.2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.5 Material | 8.2 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7.6 Cleaning and disinfecting | 8.4, 8.5, 8.11 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.7 Practical performance | 8.4 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7.8 Finish of parts | 8.2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.9.1 Total inward leakage | 8.5 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7.9.2 Penetration of filter material | 8.11 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7.10 Compatibility with skin | 8.4, 8.5 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7.11 Flammability | 8.6 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7.12 Carbon dioxide content of the inhalation air | 8.7 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7.13 Head harness | 8.4, 8.5 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7.14 Field of vision | 8.4 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7.15 Exhalation valve(s) | 8.2, 8.3.4, 8.8, 8.9.1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.16 Breathing resistance | 8.9 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7.17 Clogging | 8.10 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.18 Demountable parts | 8.2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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Test Results:

| Test item(s) | Test section | Limit/Requirement | Measured values | Verdict |
|--|---|---|---|---------|
| Visual inspection | 8.2 | Requirement clause:7.3,7.4,7.5,7.6, 7.15,7.18 | The products meet the technical requirements of the corresponding terms of the standard | Pass |
| Material | 8.2 | After undergoing S.W., none of the particle filtering half masks shall have suffered mechanical failure of the face piece or straps. | Sample 1: neither face piece nor straps have mechanical failure | Pass |
| | | | Sample 2: neither face piece nor straps have mechanical failure | |
| | | | Sample 3: neither face piece nor straps have mechanical failure | |
| | | After undergoing S.W. and T.C., none of the particle filtering half masks shall not collapse. | Sample 4: no collapse | |
| | | Sample 5: no collapse | | |
| Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer. | Sample 6: no collapse | | | |
| | Not constitute a hazard or nuisance for the wearer. | | | |
| Finish of parts | 8.2 | Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs. | Parts of the device have no sharp edges nor burrs | Pass |
| Total inward leakage | 8.5 | At least 46 out of the 50 individual exercise results shall be not greater than 5%; And in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than 2% | Refer to table 2 | Pass |





| | | | | | | | | |
|--|-----------------|---|----------|----------------------------------|-------|-------|-------|------|
| Penetration of filter material (%) | Sodium chloride | 8.11 | ≤1 | A.R. | 0.006 | 0.009 | 0.01 | Pass |
| | | | | S.W. | 0.300 | 0.500 | 0.600 | |
| | | | | M.S+ T.C. | 0.800 | 0.900 | 0.700 | |
| | Paraffin oil | | ≤1 | A.R. | 0.180 | 0.240 | 0.108 | Pass |
| | | | | S.W. | 0.340 | 0.468 | 0.605 | |
| | | | | M.S+ T.C. | 0.812 | 0.913 | 0.915 | |
| Compatibility with skin | 8.4 8.5 | Materials that may contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health | A.R. | 5 pcs all don't cause irritation | | | Pass | |
| | | | T.C. | 5 pcs all don't cause irritation | | | | |
| Flammability | 8.6 | When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5s after removal from the flame. | A.R. | Sample 1: Sample is no burning | | | Pass | |
| | | | | Sample 2: Sample is no burning | | | | |
| | | | T.C. | Sample 3: Sample is no burning | | | | |
| | | | | Sample 4: Sample is no burning | | | | |
| Carbon dioxide content of the inhalation air (%) | 8.7 | ≤1.0 (by volume), A.R. tested | Sample 1 | 0.95 | | | Pass | |
| | | | Sample 2 | 0.96 | | | | |
| | | | Sample 3 | 1.13 | | | | |
| | | | Average | 1.0 | | | | |

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|-----------------------------|-----|---|--|--|------|------|
| Head harness | 8.4 | The head harness shall be designed so that the particle filtering half mask can be donned and removed easily | A.R. | All of 5 pieces particle filtering half mask meet the requirements | Pass | |
| | 8.5 | The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position | T.C. | All of 5 pieces particle filtering half mask meet the requirements | | |
| Field of vision | 8.4 | The field of vision is acceptable if determined so in practical performance tests. | The two masks both have an acceptable visual field | | Pass | |
| Breathing resistance (mbar) | 8.9 | Inhalation 30L/min | For details see attached table 1 | | Pass | |
| | | Inhalation 95L/min | | | | ≤1.0 |
| | | Exhalation 160L/min | | | | ≤3.0 |





Table 1 Breathing resistance

| Test item | | Technical requirements | Condition | A | B | C | D | E | Single Item decision |
|-----------------------------|---------------------|------------------------|-----------|-----|-----|-----|-----|-----|----------------------|
| Breathing resistance (mbar) | Inhalation 30L/min | ≤1.0 | A.R. | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | Pass |
| | | | | 0.9 | 1.0 | 0.9 | 0.9 | 0.9 | |
| | | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| | | | S.W. | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| | | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| | | | | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | |
| | | | T.C. | 0.9 | 1.0 | 0.9 | 0.9 | 0.9 | |
| | | | | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | |
| | | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | |
| | Inhalation 95L/min | ≤3.0 | A.R. | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | Pass |
| | | | | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | |
| | | | | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| | | | S.W. | 2.1 | 2.1 | 2.1 | 2.1 | 2.0 | |
| | | | | 2.1 | 2.0 | 2.0 | 2.0 | 2.1 | |
| | | | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | |
| | | | T.C. | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | |
| | | | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | |
| | | | | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | |
| | Exhalation 160L/min | ≤3.0 | A.R. | 3.0 | 3.0 | 3.0 | 2.9 | 3.0 | Pass |
| | | | | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | |
| | | | | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | |
| S.W. | | | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | | |
| | | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | |
| | | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | |
| T.C. | | | 3.0 | 2.9 | 2.9 | 3.0 | 3.0 | | |
| | | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | | |
| | | | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | | |



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



Table 2 Total inward leakage

| Subject | Sample No. | Condition | Walk (%) | Head Side/side (%) | Head Up/down (%) | Talk (%) | Walk (%) | Mean (%) |
|--|------------|-----------|----------|--------------------|------------------|----------|----------|----------|
| Hu | 1 | A.R. | 1.5 | 1.7 | 1.8 | 2.1 | 1.7 | 1.8 |
| Xia | 2 | A.R. | 1.2 | 1.4 | 1.5 | 1.8 | 1.6 | 1.5 |
| Wu | 3 | A.R. | 1.6 | 1.7 | 2.1 | 2.4 | 1.9 | 1.9 |
| Lei | 4 | A.R. | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| Cai | 5 | A.R. | 2.1 | 2.5 | 2.9 | 3.4 | 2.7 | 2.7 |
| Zhou | 6 | T.C. | 1.4 | 1.6 | 1.8 | 1.9 | 1.7 | 1.7 |
| Wang | 7 | T.C. | 1.6 | 1.8 | 1.9 | 1.8 | 1.7 | 1.8 |
| Zhu | 8 | T.C. | 1.5 | 1.7 | 1.9 | 2.1 | 1.8 | 1.8 |
| Yang | 9 | T.C. | 1.3 | 1.5 | 1.6 | 1.9 | 1.5 | 1.6 |
| Lin | 10 | T.C. | 1.9 | 1.9 | 2.3 | 2.5 | 2.0 | 2.1 |
| Maximum permitted | | | 5 | | | | | 2 |
| <p>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.</p> | | | | | | | | |

Facial dimension

| Subject | Face length(mm) | Face width(mm) | Face Depth(mm) | Mouth Width(mm) |
|---------|-----------------|----------------|----------------|-----------------|
| Hu | 103 | 122 | 100 | 53 |
| Xia | 123 | 130 | 119 | 62 |
| Wu | 110 | 121 | 102 | 60 |
| Lei | 120 | 129 | 125 | 65 |
| Cai | 121 | 130 | 126 | 62 |
| Zhou | 130 | 131 | 125 | 68 |
| Wang | 132 | 132 | 126 | 69 |
| Zhu | 113 | 120 | 115 | 59 |
| Yang | 115 | 119 | 113 | 57 |
| Lin | 121 | 120 | 125 | 63 |





Annex Photo of Testing Sample



..... End of Test Report

