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TEST REPORT

Particulate respirator-half facepiece

EN 149:2001+A1:2009 Respiratory protective devices—Filtering half masks to protect against particles—requirements, testing, marking

The following samples were submitted and identified on behalf of the client as:

Product : **Filtering Half Mask**

Report No. : **TSGK-2020-1887-T**

Client : **Universal Certification and Surveillance Service Trade Ltd.Co.**

Model(s) : **XJ-9501**

Date(s) of tests : **2020-09-27~2020-09-29**

DESCRIPTION OF SAMPLES

| General information | Classification | Main components |
|-----------------------------|--|-----------------|
| | FFP2 | White half mask |
| Manufacturer | FoShan Xujian Medical Equipment Co., Ltd | |
| Manufacturer address | No.10 West Changxing Load,Junan district,Foshan City, Guangdong, China | |

Approve:

Reviewer:

Chief Tester:

Issued:

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Test Report No. TSGK-2020-1887-T**Note:**

The test results presented in this report relate to the samples tested only.

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Conclusion**Test Items**

| | | |
|--------------|--------------------------------|------|
| Clause 7.9.2 | Penetration of filter material | Pass |
| Clause 7.16 | Breathing resistance | Pass |

Remarks: Pass = Meet EN 149:2001+A1:2009 FFP2 Requirement
Fail = Below EN 149:2001+A1:2009 FFP2 Requirement
N/A = Not Applicable

Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements.

By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

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Test Results

7.9.2 Penetration of filter material

Pass¹

The penetration of the filter of the particle filtering half mask shall meet the requirements show in the table below.

Sodium chloride test 95 L/min

Paraffin oil test 95 L/min

| | | |
|------|------|------|
| FFP1 | ≤20% | ≤20% |
| FFP2 | ≤6% | ≤6% |
| FFP3 | ≤1% | ≤1% |

Note 1: FFP2 respirator. Test results are shown in Annex A Table 7.9.2.

7.16 Breathing resistance

Pass²

| Classification | Maximum permitted resistance (mbar) | | |
|----------------|-------------------------------------|----------|------------|
| | Inhalation | | Exhalation |
| | 30 L/min | 95 L/min | 160 L/min |
| FFP1 | 0.6 | 2.1 | 3.0 |
| FFP2 | 0.7 | 2.4 | 3.0 |
| FFP3 | 1.0 | 3.0 | 3.0 |

Note 2: FFP2 respirator. Test results are shown in Annex A Table 7.16.

End of Test Results

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Annex A: Summarization of Test Data

Table 7.9.2 Penetration of filter material

Test specification: EN 149:2001+A1:2009 Clause 8.11

| Aerosol | Condition | Sample No. | Penetration (%) | Assessment |
|--|-------------|------------|-----------------|------------|
| Sodium chloride test | As received | 1 | 0.1 | Pass |
| | | 2 | 0.2 | |
| | | 3 | 0.2 | |
| Paraffin oil test | As received | 4 | 0.6 | |
| | | 5 | 0.8 | |
| | | 6 | 0.5 | |
| Flow conditioning: single filter: 95.0 L/min | | | | |

Table 7.16 Breathing resistance (mbar)

Test specification: EN 149:2001+A1:2009 Clause 8.9

| | Flow rate | 1 | | | | | 2 | | | | | 3 | | | | | |
|-------------|------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | A | B | C | D | E | A | B | C | D | E | A | B | C | D | E | |
| As received | Inhalation | 30 L/min | 0.5 | 0.5 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.4 | 0.4 | 0.5 | 0.4 | 0.5 |
| | | 95 L/min | 1.7 | 1.7 | 1.6 | 1.7 | 1.5 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 1.7 | 1.5 | 1.6 | 1.7 | 1.7 |
| | Exhalation | 160 L/min | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 | 1.2 | 1.2 | 1.1 | 1.2 | 1.2 | 1.1 | 1.2 | 1.1 | 1.1 | 1.2 |
| Assessment | Pass | | | | | | | | | | | | | | | | |

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

End of Annex A

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Annex B: photos of samples



End of Annex B