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CNAS L11197

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The lab is accredited for compliance with ISO/IEC17025:2017.

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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
<b>Manufacturer</b>	FoShan Xujian Medical Equipment Co., Ltd	
<b>Manufacturer address</b>	No.10 West Changxing Load,Junan district,Foshan City, Guangdong, China	

**Approve:**

**Reviewer:**

陈健伟

**Chief Tester:**

陈健强

**Issued:**

**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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The authenticity of this test report and its contents can be verified by contacting the laboratory.

**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.

**Test Report No. TSGK-2020-1887-T****Test Results****7.9.2 Penetration of filter material****Pass<sup>1</sup>**

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****Pass<sup>2</sup>**

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**

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**End of Annex B**