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CNAS L11197

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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-2020-1448-T
Client : UNIVERSAL
Model(s) : TS01
Date(s) of tests : 2020.08.07-2020.08.07

DESCRIPTION OF SAMPLES

General information	Classification	Main components
Manufacturer Manufacturer address	FFP3 Guangdong Tengsheng pharmaceutical Technology Co., Room 301, No. 7, Linhai North Road, Shatian Town, Dongguan City, Guangdong Province, China	White half mask

Approve:

Reviewer:

陈健强

Chief Tester:

陈健强

Issued: 2020.08.07

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Test Report No. TSGK-2020-1448-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 FFP3 Requirement
Fail = Below EN 149:2001+A1:2009 FFP3 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-2020-1448-T

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: FFP3 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: FFP3 respirator. Test results are shown in Annex A Table 7.16.

End of Test Results

Test Report No. TSGK-2020-1448-T

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	0.1	
		3	0.4	
Paraffin oil test	As received	4	0.4	
		5	0.1	
		6	0.1	
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	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.3	0.3
		95 L/min	1.7	1.8	1.6	1.7	1.6	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.7	1.7	1.7
	Exhalation	160 L/min	2.1	2.1	1.9	2.0	2.0	2.1	2.2	2.0	2.1	2.0	2.0	2.1	2.1	2.0	2.0
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

Test Report No. TSGK-2020-1448-T

Annex B: photos of samples



End of Annex B