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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

Product: Particle filtering half mask
Report No: 2022 (D) - 0197
Client: Yantai Lisong Safety Technology Co., Ltd.
Model (s): 1206
Date(s) of tests: 2022.10.24-2022.10.31

DESCRIPTION OF SAMPLES

General Information

Manufacturer

Manufacturer Address

Classification

FFP2 NR

Main Components

Folding mask

Yantai Lisong Safety Technology Co., Ltd.

Room 201, Building 2, No. 16, Hongkong Road, Economic and Technological
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Signed:

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Authorized Signatory, Lab Director

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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 of Table 1.

	Sodium chloride test 95 l/min	Paraffin oil test 95 l/min
FFP1	≤20%	≤20%
FFP2	≤6%	≤6%
FFP3	≤1%	≤1%

Note1: 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

Note2: FFP2 respirator. Test results are shown in Annex A Table 7.16.

End of Test Results

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	11	0.297	Pass
		12	0.363	
		13	0.282	
	Simulated wearing treatment	14	0.435	
		15	0.379	
		16	0.496	
	Mechanical strength+ Temperature conditioned	17	0.312	
		18	0.464	
		19	0.423	
Paraffin oil test	As received	20	0.873	Pass
		21	1.15	
		22	1.30	
	Simulated wearing treatment	23	0.972	
		24	1.06	
		25	1.17	
	Mechanical strength+ Temperature conditioned	26	1.29	
		27	1.47	
		28	1.51	
Flow conditioning: Single filter: 95.0 L/min				

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Table 7.16 Breathing resistance (mbar)

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

As received	Flow rate		36					37					38				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30 l/min	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.5	0.6	0.5	0.6	0.6
95 l/min		1.6	1.7	1.7	1.7	1.7	1.6	1.6	1.7	1.8	1.7	1.8	1.6	1.6	1.7	1.8	
Exhalation	160 l/min	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.5	2.5	2.4	2.5	
Simulated wearing treatment	Flow rate		39					40					41				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30 l/min	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.5	0.6
		95 l/min	1.8	1.7	1.7	1.7	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.8	1.8
	Exhalation	160 l/min	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.5	2.4	2.4	2.5	2.5	2.5	2.5	2.5
Temperature conditioned	Flow rate		42					43					44				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30 l/min	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6
		95 l/min	1.7	1.8	1.7	1.7	1.8	1.7	1.6	1.7	1.7	1.7	1.7	1.7	1.6	1.7	1.7
	Exhalation	160 l/min	2.5	2.4	2.5	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.5	2.4	2.5	2.5
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

Test	Uncertainty
Penetration of filter material	1.1%
Breathing resistance	1.8%

End of Annex A

