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**TEST REPORT**

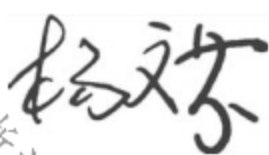
**Particulate respirator-half facepiece**

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

**Product:** Particulate respirator  
**Report No:** 2018-W-138  
**Client:** ZHEJIANG YINGHUA TECHNOLOGY CO., LTD.  
**Contact:** Jing Zhan  
**Model (s):** RM101 FFP2 NR  
**Date(s) of tests:** 2018.11.19-2018.12.17

**DESCRIPTION OF SAMPLES**

General Information	Model	Main Components
<b>Manufacturer</b>	RM101 FFP2 NR	White cup-shaped valveless half mask
<b>Manufacturer Address</b>	ZHEJIANG YINGHUA TECHNOLOGY CO.,LTD.	
	Jinshan Avenue, Xiaoshun Town, Jinhua, Zhejiang	

**Signed:**   
 杨文芬 Yang Wenfen  
 Authorized Signatory, Lab Director

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## Test Results

### 7.12 Carbon dioxide content of the inhalation air

Pass<sup>1</sup>

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume)

Note1: Test results are shown in Annex A Table 7.12.

### 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

Note2: 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 7.12 Carbon dioxide content of the inhalation air**  
Test specification: EN 149-2001 Clause 8.7

Condition	Sample No.	Result			Assessment
As received	1	0.62%			Mean value 0.6% Pass
	2	0.67%			
	3	0.63%			

**Table 7.16 Breathing resistance (mbar)**

Test specification: EN 149-2001 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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		95 l/min	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.2	1.3	1.2	1.3	1.2	1.2	1.2	1.2
	Exhalation	160 l/min	1.8	1.7	1.7	1.8	1.7	1.7	1.8	1.8	1.8	1.9	1.7	1.8	1.9	1.7	1.9
Simulated wearing treatment	Inhalation	30 l/min	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		95 l/min	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.2	1.3	1.2	1.3	1.2	1.3	1.2	1.3
	Exhalation	160 l/min	1.8	1.7	1.8	1.7	1.7	1.8	1.7	1.8	1.9	1.8	1.8	1.6	1.8	1.9	1.8
		Flow rate	4					5					6				
Temperature conditioned	Inhalation	30 l/min	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
		95 l/min	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.3	1.2	1.2	1.2
	Exhalation	160 l/min	1.8	1.8	1.7	1.8	1.7	1.9	1.8	1.8	1.7	1.8	1.7	1.9	1.8	1.8	1.8
Assessment	Flow rate	7					8					9					
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
		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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国家劳动保护用品质量监督检验中心(北京)

**ANNEX B PHOTOS OF SAMPLES**



**End of Annex B**

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