

DOCUMENTATION

REF. CV-41 / ZDFM002

MASK ULTRA PROTECTION FFP2

MASCARILLA ULTRA PROTECCIÓN FFP2

MASQUE FFP2 ULTRA PROTECTION FFP2

MASCHERINA PROTEZIONE ULTRA FFP2



MASTER BOX: 1000 pcs



CV-41

COLOR: BLANCO/WHITE

ITEM: **ZDFM002**

DESCRIPTION: NAAMIO

MATERIAL:

5 PLY (46% non woven, 30% Meltblown, 24% algodón).

QUANTITY: 1.000

G.W:

N.W:

CNT SIZE:

BATCH NUMBER:

PRODUCTION DATE:

VALIDITY:

MADE IN P.R.C.

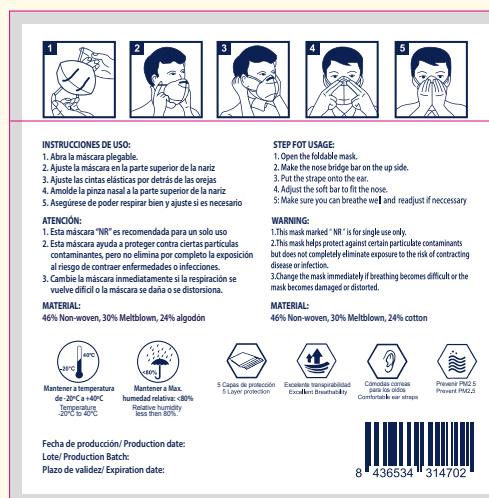
BOX: 25 pcs

L138xW138xH110mm



BAG: 1 pc

133x133 mm



NOTA IMPORTANTE:

En todos los procesos de fabricación de nuestras mascarillas, no se utiliza grafeno o derivados del mismo.

Colaboramos con



Reconocimiento a la responsabilidad ambiental



Universidad Politécnica de Cartagena



UCAM UNIVERSIDAD CATOLICA DE MURCIA

UIMP Cartagena Universidad Internacional Menéndez Pelayo



Asociaciones y Entidades a las que pertenecemos



General manager : Michael Ma
July 16th 2020

Certificate FI20/966545

SANMEN SANMEI CRAFT CO.,LTD

Tingpang Industry Zone, Sanmen, Taizhou,
317103 Zhejiang, China

It is certified that the manufacturer's technical file and the PPE product detailed on
page 2 have been assessed and found to be in accordance with

Regulation (EU) 2016/425 Module B, EU type-examination

This certificate is valid from 08 September 2020 until 08 September 2025
1. Certified since 08 September 2020

Authorised by




FINAS
Finnish Accreditation Service
S003 (EN ISO/IEC 17065)

SGS FIMKO OY, Notified Body 0598

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SANMEN SANMEI CRAFT CO.,LTD

Regulation (EU) 2016/425

Module B, EU type-examination

Issue 1

PPE Product

ZIDAI (logo) ZDFM002 particle filtering half mask, consisting of a white five layer (polypropylene/ polypropylene/ polypropylene / ethylene-propylene / polypropylene) disposable face mask, with nose clip, polyester/spandex ear strap and polyethylene hook

It is certified that the manufacturer's technical file and the above mentioned PPE have been assessed and found to meet the applicable Essential Health and Safety Requirements in Annex II of Regulation (EU) 2016/425 Personal Protective Equipment

The following have been applied:

EN 149:2001+A1:2009 (Respiratory protective devices - filtering half masks to protect against particles) device classification: FFP2 NR.

This certificate is issued on the strict condition that appropriate checks on manufactured PPE, as detailed in Article 19 (c) of the Regulation are implemented and maintained while the model is in production

Certification is based on technical file reference:

SS-TCF-01, dated: 2020-04-12.

SGS Reference Number UK/CRS 241688.

This certificate remains the property of SGS Fimko Oy to whom it must be returned on request.

Certificate CN20/42326

The management system of

SANMEN SANMEI CRAFT CO., LTD

Tingpang Industry Zone, Sanmen, Taizhou, 317103 Zhejiang, China

has been assessed and certified as meeting the requirements of

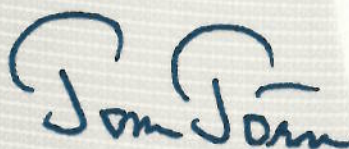
Regulation (EU) 2016/425 Module C2

For the following activities

Manufacture of ZIDAI (logo) ZDFM002 particle filtering half mask.
(Note: All products marked CE0598 must have a valid EU type-examination certificate issued under Module B or a valid EC type-examination certificate issued under Article 10 of Directive 89/686/EEC.)

This certificate is valid from 25 September 2020
and remains valid subject to satisfactory surveillance audits.
Issue 1. Certified since 25 September 2020

Authorised by



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Test Report

SL52035260792001TX

Date: July 02, 2020

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SANMEN SANMEI CRAFT CO., LTD
TINGPANG INDUSTRY ZONE, SANMEN, TAIZHOU, ZHEJIANG, CHINA 317103

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A) Filtering Half Mask

Style No. : ZDFM002

Sample Color : (A) WHITE

Manufacturer : ZIDAI

Supplier : SANMEN SANMEI CRAFT CO., LTD

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Jun 17, 2020

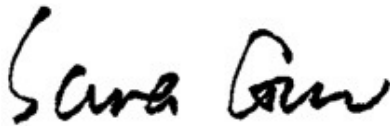
Testing Period : Jun 18, 2020 - Jul 02, 2020

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Conclusion:

Sample No.	Recommendation Level
(A)	FFP2 NR

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center



Sara Guo (Account Executive)



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Test Result

Personal Protective Equipment - Respiratory Protective Devices- Filtering Half Masks to Protect against Particles- Requirements, Testing, Marking

EN 149:2001+A1:2009

Clause 7.4 Packaging

(EN 149:2001+A1:2009 Clause 8.2)

Test Requirement	Results	Comment
Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.	Comply	Pass

Clause 7.5 Material

(EN 149:2001+A1:2009, Clause 8.2 & 8.3.1 & 8.3.2)

Test Requirement	Results	Comment
Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.	Comply	Pass
After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.	Comply	
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Comply	
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Comply	

Clause 7.6 Cleaning and Disinfecting

(EN 149:2001+A1:2009, Clause 8.4 & 8.5 & 8.11)

Test Requirement	Results	Comment
If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer. With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.	Not applicable (Not designed to be re-usable)	N.A.

Clause 7.7 Practical Performance

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement	Results	Comment
The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard.	No imperfections	Pass



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Clause 7.8 Finish of Parts

(EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.	No sharp edges or burrs	Pass

Clause 7.9.1 Total Inward Leakage

(EN 149:2001+A1:2009, Clause 8.5)

Test Requirement	Results	Comment
<p>The total inward leakage consists of three components: face seal leakage, exhalation value leakage(if exhalation value fitted) and filter penetration. For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual exercise results (i.e. 10 subjects x 5 exercises) for total inward leakage shall be not greater than: 25% for FFP1, 11% for FFP2, 5% for FFP3</p> <p>and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than: 22% for FFP1, 8% for FFP2, 2% for FFP3</p>	Detail refer to Appendix 1	Meet FFP1, Meet FFP2

Appendix 1: Summarization of Test Data

Inward Leakage Test Data

Subject	Sample No.	Condition	Walk(%)	Head Side/side(%)	Head up/down(%)	Talk(%)	Walk(%)	Mean(%)
Zhou	1	A.R.	5.17	6.32	7.04	5.26	4.60	5.68
Luo	2	A.R.	5.68	6.19	7.14	5.13	5.88	6.00
Lu	3	A.R.	6.02	6.57	4.88	5.82	5.60	5.78
Wang	4	A.R.	4.61	3.97	3.86	3.66	5.22	4.26
Bao	5	A.R.	5.07	6.58	5.90	7.35	6.02	6.18
Ding	6	T.C.	3.58	5.37	4.75	4.53	4.21	4.49
Li	7	T.C.	7.54	5.73	6.52	5.40	7.11	6.46
Chen	8	T.C.	4.38	4.54	4.91	4.66	3.48	4.39
Song	9	T.C.	4.76	5.59	7.31	6.55	5.32	5.91
Ye	10	T.C.	7.32	5.92	5.88	6.72	6.29	6.43

Facial Dimension(mm)

Subject	Face length	Face Width	Face Depth	Mouth Width
Chen	125	150	120	58
Lu	115	132	107	48
Zhou	115	135	106	52
Li	125	130	107	46
Luo	125	136	100	43
Zheng	128	140	112	55
Wang	120	147	103	48
Song	120	140	100	50
Bao	130	134	104	50



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Ding	134	150	110	52
Liu	120	135	117	50
Ye	126	137	105	52

Clause 7.9.2 Penetration of Filter Material

(EN 149:2001+A1:2009, Clause 8.11 & EN 13274-7:2019)

Test Requirement			Results	Comment
The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.			Detail refer to Appendix 2	Meet FFP1, Meet FFP2, Meet FFP3
Classification	Maximum penetration of test aerosol			
	Sodium chloride test 95 l/min % max.	Paraffin oil test 95 l/min % max.		
FFP1	20	20		
FFP2	6	6		
FFP3	1	1		

Appendix 2: Summarization of Test Data

Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)
Sodium chloride test	As received	1	0.081
		2	0.123
		3	0.092
	Simulated wearing treatment	4	0.109
		5	0.117
		6	0.097
	Mechanical strength +Temperature conditioned	7	0.083
		8	0.099
		9	0.118
Paraffin oil test	As received	10	0.125
		11	0.134
		12	0.126
	Simulated wearing treatment	13	0.146
		14	0.134
		15	0.145
	Mechanical strength +Temperature conditioned	16	0.194
		17	0.186
		18	0.176
Flow conditioning: Single filter: 95.0 L/min			



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Clause 7.10 Compatibility with Skin

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Test Requirement	Results	Comment
Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.	No irritation or any other adverse effect to health	Pass

Clause 7.11 Flammability

(EN 149:2001+A1:2009, Clause 8.6)

Test Requirement	Results	Comment
The material used shall not present a danger for the wearer and shall not be of highly flammable nature When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5 s after removal from the flame.	Detail refer to Appendix 3	Pass

Appendix 3: Summarization of Test Data

Flammability

Condition	Sample No.	Result
As received	1	NIL
	2	NIL
Temperature conditioned	3	NIL
	4	NIL

Clause 7.12 Carbon Dioxide Content of The Inhalation Air

(EN 149:2001+A1:2009, Clause 8.7)

Test Requirement	Results	Comment
The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume)	Detail refer to Appendix 4	Pass

Appendix 4: Summarization of Test Data

Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Result(%)
As received	1	0.4729
	2	0.4714
	3	0.4733
		Mean value: 0.47



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Clause 7.13 Head Harness

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Test Requirement	Results	Comment
The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.	Comply	Pass
The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.	Comply	

Clause 7.14 Field of Vision

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement	Results	Comment
The field of vision is acceptable if determined so in practical performance tests.	Comply	Pass

Clause 7.15 Exhalation Valve(s)

(EN 149:2001+A1:2009, Clause 8.2 & 8.9.1 & 8.3.4 & 8.8)

Test Requirement	Results	Comment
(a) A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	Not applicable due to No exhalation valve	N.A.
(b) If an exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device that may be necessary for the particle filtering half mask to comply with 7.9.	Not applicable due to No exhalation valve	
(c) Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.	Not applicable due to No exhalation valve	
(d) When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10N applied for 10 s.	Not applicable due to No exhalation valve	



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Clause 7.16 Breathing Resistance

(EN 149:2001+A1:2009, Clause 8.9)

Test Requirement				Results	Comment
The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.					
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		

Appendix 5: Summarization of Test Data

Breathing resistance (mbar)

As received	Flow rate(l/min)		1					2					3				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30	0.3	0.3	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.4	0.4	0.3	0.3	0.3	0.3
		95	0.9	0.9	1.0	0.9	1.0	1.0	0.9	0.8	1.0	0.9	0.8	0.9	0.8	1.0	1.0
	Exhalation	160	2.0	2.0	2.1	1.9	2.0	2.0	1.9	1.9	2.0	2.0	1.9	1.9	2.0	1.9	2.0
Simulated wearing treatment	Flow rate(l/min)		4					5					6				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30	0.4	0.5	0.4	0.4	0.3	0.4	0.4	0.3	0.4	0.5	0.4	0.5	0.5	0.4	0.3
		95	1.1	1.2	1.2	1.1	1.2	1.0	1.2	1.2	1.2	1.0	1.2	1.2	1.2	1.0	1.2
	Exhalation	160	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.2	2.2	2.1	2.1	2.2	2.1	2.2
Temperature conditioned	Flow rate(l/min)		7					8					9				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2
		95	0.7	0.7	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.7	0.7	0.8	0.8	0.7
	Exhalation	160	1.9	1.8	1.8	1.9	1.9	1.8	1.8	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.8

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



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Clause 7.17 Clogging

(EN 149:2001+A1:2009, Clause 8.9 & 8.10)

Test Requirement	Results	Comment																			
<p>Clause 7.17.2 Breathing resistance Valved particle filtering half masks: After clogging the inhalation resistances shall not exceed: FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar at 95L/min continuous flow The exhalation resistance shall not exceed 3 mbar at 160 L/min continuous flow.</p> <p>Valveless particle filtering half masks: After clogging the inhalation and exhalation resistances shall not exceed: FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar at 95L/min continuous flow</p>	Optional for single shift device only	N.A.																			
<p>Clause 7.17.3 Penetration of filter material All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.</p> <table border="1"> <thead> <tr> <th rowspan="3">Classification n</th><th colspan="2">Maximum penetration of test aerosol</th></tr> <tr> <th>Sodium chloride test 95 l/min</th><th>Paraffin oil test 95 l/min</th></tr> <tr> <th>%</th><th>%</th></tr> </thead> <tbody> <tr> <td></td><td>max.</td><td>max.</td></tr> <tr> <td>FFP1</td><td>20</td><td>20</td></tr> <tr> <td>FFP2</td><td>6</td><td>6</td></tr> <tr> <td>FFP3</td><td>1</td><td>1</td></tr> </tbody> </table>	Classification n	Maximum penetration of test aerosol		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min	%	%		max.	max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	Optional for single shift device only	N.A.
Classification n		Maximum penetration of test aerosol																			
		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min																		
	%	%																			
	max.	max.																			
FFP1	20	20																			
FFP2	6	6																			
FFP3	1	1																			

Clause 7.18 Demountable Parts

(EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
All demountable parts (if fitted) shall be readily connected and secured, where possible by hand	Comply	Pass

Test	Uncertainty
Total inward leakage	3.4%
Penetration of filter material	4.8%
Carbon dioxide content of the inhalation air	3.9%
Breathing resistance (30L/min)	5.9%
Breathing resistance (95L/min)	4.9%
Breathing resistance (160L/min)	4.3%



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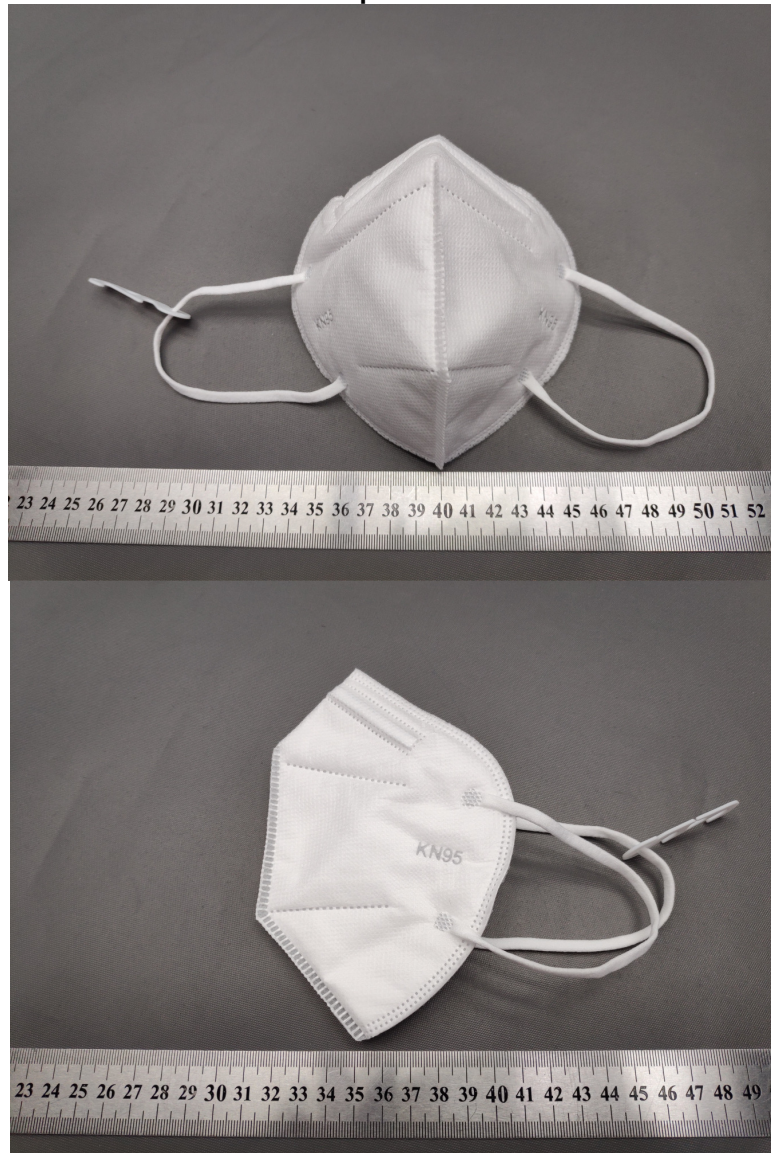
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Sample Photo





End of Report