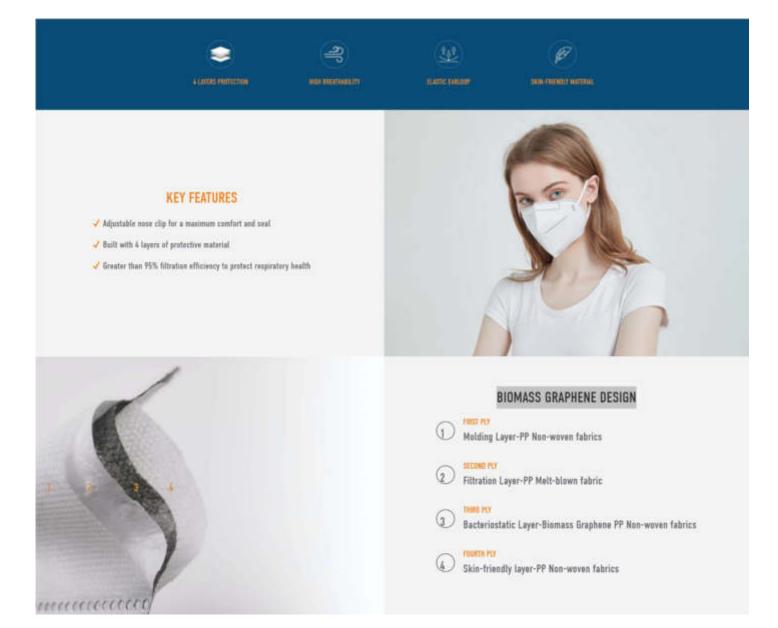


**REF:** SNN70369B



FFP2 NR Face Mask EN149:2001+A1:2009 C-shaped



























# Certificate of Module C2 production monitoring for equipment within the scope of Personal Protective Equipment Regulation (EU) 2016/425 Category III

FPC Certificate No.: CE-PC-200227-018-FPC-B

Certificate SHANDONG SHENGQUAN NEW MATERIALS CO., LTD Diaozhen Industrial Development Zone, Zhangqiu, Jinan, China

The scope of the certification for:

The manufacture of respiratory protective devices

See annex for articles covered by this certificate

Validity from: 2020-04-10

To: 2021-04-09

CCQS Certification Services Limited in its role as a Notified Body for PPE Regulation, is monitoring that the manufacturer is producing PPE in conformity with the type described in the EU type-examination certificate and associated technical file and which satisfies the Essential Health and Safety Requirements of the Regulation. The equipment covered by this certificate is listed in the accompanying schedule. This certificate is not complete and has no validity without the accompanying schedule and revision index.

The manufacturer is hereby authorized to affix our Notified Body number, 2834, to each item of PPE mentioned in the schedule which accompanies this certificate whilst this certificate remains valid.

This certificate and the accompanying schedule remain the property of CCQS and maybe withdrawn or revised at any time if CCQS considers that the equipment is no longer in conformity with the requirements of the Regulation.



Approved by Ireland Government as a Notified Body for CE Marking No.2834





# CCQS Certification Services Limited

Block 1 Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin 150/fic D15 AKK1, Ireland
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If in any doubt about the integrity of this certificate, please contact CCQS by email to verify.

Page 1 of 2 (Fm220-016, Rev.1)





# Schedule of Module C2 production monitoring for equipment within the scope of Personal Protective Equipment Regulation (EU) 2016/425 Category III

Schedule to CCQS FPC Certificate No.: CE-PC-200227-018-FPC-B

Product reference and des	Reference standard	
Particle filtering half mask	Model: SNN70370B	EN 149:2001 + A1:2009
Particle filtering half mask	Model: SNN70369B	EN 149:2001 AS: 2699
Particle filtering half mask	Model: SNN200647	EN 149:2001 - A3:2009 EN 149:2001 - A1:2009

Certificate Revision.	Revision details	Revision date
В	Initial issue	2020-04-10
		tifica
2 02	07 07	05

This schedule has no validity without the accompanying certificate.

This schedule and the accompanying certificate remain the property of CCQS and maybe withdrawn or revised at any time if CCQS considers that the equipment is no longer in conformity with the requirements of the Regulation.

# CCQS Certification Services Limited

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# Module B EU Type-Examination Certificate

# For the requirements of PPE Regulation 2016/425

Certificate No.: CE-PC-200227-018-01-9C

Certificate Shandong Shengquan New Materials Co., Ltd.

holder: Diaozhen Industrial Development Zone, Zhangqiu, Jinan, China

Product: Particle filtering half masks

Detailed product description listed in the Annex

Model(s): See Annex

Standard(s): EN 149:2001 + A1:2009 Respiratory protective devices - Filtering half

masks to protect against particles - Requirements, testing, marking

Issue date: 2020-04-10

Revision date: 2020-06-18

Expiry date: 2025-04-09

The product(s) on this certificate and the Technical File have been assessed and found to be in conformance with the applicable Essential Health and Safety Requirements in Annex II of the PPE regulation 2016/425.

Any changes to the design, manufacturing location or manufacture of the PPE product certified here must be advised to CCQS Certification Services Limited for review.

CE marking shall not be applied until the requirements of all the PPE Regulation 2016/425 and relevant EN Harmonised standards and/or Technical specifications have been met.

If the certified product is Category III then this certificate is only valid if used in conjunction with Conformity Assessment against Module C2 or Module D.

This certificate remains the property of CCQS and maybe withdrawn at any time if it is considered that the equipment is no longer in conformity with the requirements of the PPE Regulation 2016/425.



Approved by Ireland Government as a Notified Body for CE Marking No.2834





# **CCQS Certification Services Limited**

Block 1 Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin15, D15 AKK1, Ireland

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# Module B EU Type-Examination Certificate Annex

# For the requirements of PPE Regulation 2016/425

Certificate No.: CE-PC-200227-018-01-9C

# Applicable standards and specification:

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

Model reference	odel reference Product description		
SNN70370B	Folding particle filtering half mask with adjustment ear loops without valves, internal metal nose clip Class: FFP2 NR Test report No.:2020(D) - 0005		
SNN70369B	Folding particle filtering half mask with adjustment ear loops without valves, internal metal nose clip Class: FFP2 NR Test report No.:2020(D) - 0004		

Certificate Revision	Revision date	Revision details
В	2020-04-10	Initial issue
С	2020-06-18	Editorial change to description to include ear loops
62	027	Costrelan

# **CCQS Certification Services Limited**

Block 1 Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin15, D15 AKK1, Ireland

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## SHANDONG SHENGQUAN NEW MATERIALS CO LTD.

ADD: Diaozhen Industrial Development Zone, Zhangqiu, Shandong , China TEL: 0086-531-83501239/83511609 FAX: 0086-531-83511356 Web: www.shengquan.com E-Mail: sqwmb@shengquan.com

# **EU Declaration of conformity**

# for personal protective equipent according to Regulation (EU) 2016/425

CE

Name of the Manufacturer: Shandong Shengquan New Materials Co., Ltd. Address: Diaozhen Industrial Development Zone, Zhangqiu, Jinan, China

Product name: Particle filtering half mask

Models/ REFs: SNN200647, SNN70370B, SNN70369B

We, as a manufacturer of the above products, hereby declare that the above Personal Protective Equipment (PPE) products are in conformity with the provisions of Regulation (EU) 2016/425, including fulfilment of the applicable essential health and safety requirements set out in Annex II, and with the National Standard transposing the harmonised European Standard Number

### EN 149:2001+A1:2009

and are identical to the PPE which are the subject of EU type-examination (Module B of Regulation (EU) 2016/425) referenced on the following certificates:

CE-PC-200324-094-01-9C (issue date 10.04.2020)

CE-PC-200227-018-01-9C (issue date 10.04.2020)

issued by

CCQS Certification Services Limited, Block 1 Blanchardstown Corporate Park, Ballycoolin Road, Blanchardstown, Dublin 15, D15 AKK1, Ireland and are subject to the procedures set out in Module D of Regulation (EU) 2016/425 under the surveillance of CCQS (Notified Body number 2834).

Signed by: Chuanwei Xu

President

Date: 18th June 2020





# National Quality Supervision and Testing Center for Personal Protective Equipment (Beijing)

No.55 Taoranting Street, Xicheng District, Beijing, China. Phone: +86 10 63519250 Fax: +86 10 63519250

The Testing Center is accredited for compliance with ISO/IEC 17025.

The results of tests, calibrations and/or measurements included in this document are traceable to Chinese/national standards.

CNAS is a signatory to the ILAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

#### 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: Biomass Graphene Particulate Respirator

Report No: 2020 (D) - 0004

Client: CCQS UK LTD

Contact: Hu Xiaoming

Model (s): SNN70369B

Date(s) of tests: 2020.03.11-2020.03.24

# DESCRIPTION OF SAMPLES

General Information Classification Main Components
FFP2 NR Grey folding mask

Manufacturer Shandong Shengquan New Materials Co., Ltd

Manufacturer Address Industry Development Zones, Diaozhen Town, Zhangqiu, Shandong

Signed: 10 10

陈倬为 Chen Zhuowei Authorized Signatory, Lab Director - mile

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Test Results

7.3 Visual inspection Pass

The visual inspection shall include the marking and information supplied by the manufacturer.

7.4 Package Pass<sup>1</sup>

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.

Note1: In accordance with the requirement.

7.5 Material Pass<sup>2</sup>

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.

Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.

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.

When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.

Note2: No mechanical failure after undergoing the conditioning described in 8,3,1. No collapse when conditioned in accordance with 8,3,1 and 8,3,2.

## 7.6 Cleaning and disinfecting

N/A3

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.

Note3: Single shift use only.

# 7.7 Practical performance

Pass

The particle filtering half mask shall undergo practical performance tests under realistic conditions. Note4: No imperfections.

7.8 Finish of parts Pass

Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs. Note5: No sharp edges or burrs.

#### 7.9.1 Total inward leakage

Pass6

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

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

Note6: FFP2 respirator. Test results are shown in Annex A Table 7.9.1-A&B.

# 7.9.2 Penetration of filter material

Pass

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  $\leq 20\%$  Paraffin oil test 95 l/min

FFP2 ≤6% ≤6%

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Note7: FFP2 respirator. Test results are shown in Annex A Table 7.9.2.

#### 7.10 Compatibility with skin

Pass8

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.

Note8: No irritation or any other adverse effect to health.

# 7.11 Flammability

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.

Note9: Test results are shown in Annex A Table 7.11.

#### 7.12 Carbon dioxide content of the inhalation air

Pass<sup>10</sup>

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0 % (by volume) Note10: Test results are shown in Annex A Table 7.12.

Pass<sup>11</sup> 7.13 Head harness

The head harness shall be designed so that the particle filtering half mask can be donned and removed easily. 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. Note 11: Head harness can be donned and removed easily, adjustable or self-adjusting and have sufficiently robust to hold the particle filtering half mask firmly.

#### 7.14 Field of vision

Pass12

The field of vision is acceptable if determined so in practical performance tests. Note12: Pass the practical performance tests.

7.15 Exhalation valve

N/A13

A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.

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.

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.

When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.

Note13: No exhalation valve.

# 7.16 Breathing resistance

Classification	M	aximum permitted resistance (mba	ar)
	Inhalati	ion	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

Note14: FFP2 respirator. Test results are shown in Annex A Table 7.16.

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7.17 Clogging N/A<sup>15</sup>

#### 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

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

# 7.17.3 Penetration of filter material

Soc	dium chloride test 95 l/min	Paraffin oil test 95 l/min
FFP1	≤20%	≤20%
FFP2	≤6%	≤6%
FFP3	≤1%	≤1%
Note15: Single	shift use only.	

7.18 Demountable parts

All demountable parts (if fitted) shall be readily connected and secured, where possible by hand

All demountable parts (if fitted) shall be readily connected and secured, where possible by hand Note16: No demountable parts.

9 Marking Not tested

### 9.1 Packaging

The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.

- 9.1.1 The name, trademark or other means of identification of the manufacturer or supplier.
- 9.1.2 Type-identifying marking.
- 9.1.3 Classification

The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D.

- 9.1.4 The number and year of publication of this European Standard.
- 9.1.5 At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in Figure 12a, where yyyy/mm indicates the year and month.
- 9.1.6 The sentence 'see information supplied by the manufacturer', at least in the official language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.
- 9.1.7 The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d.
- 9.1.8 The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D". This letter shall follow the classification marking preceded by a single space.

### 9.2 Particle filtering half mask

Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:

- 9.2.1 The name, trademark or other means of identification of the manufacturer or supplier.
- 9.2.2 Type-identifying marking.

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9.2.3 The number and year of publication of this European Standard.

9.2.4 Classification

The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D.

- 9.2.5 If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the classification marking preceded by a single space
- 9.2.6 Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.

**End of Test Results** 

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Annex A: Summarization of Test Data

Table 7.9.1-A Inward leakage test data Test specification: EN 149-2001 Clause 8.5

Sample No.	Condition	Walk(%)	Head Side/side(%)	Head up/down(%)	Talk(%)	Walk(%)	Mean(%)
18	A.R.	5.74	5.85	5.83	5.83	5.74	5.8
2	A.R.	5.67	5.72	5.89	5.82	5.71	5.8
3	A.R.	4.43	4.56	4.52	4.66	4.55	4.5
4	A.R.	4.61	4.78	4.86	4.85	4.72	4.8
5	A.R.	4.81	4.93	5.05	5.17	5.06	5.0
6	T.C.	5.34	5.49	5.51	5.59	5.43	5.5
7	T.C.	5,33	5.57	5.54	5.48	5.49	5.5
8	T.C.	5.48	5.65	5.57	5.63	5.47	5.6
9	T.C.	5.42	5.52	5.69	5.54	5.54	5.5
10	T.C.	5.56	5.61	5.78	5.76	5.61	5.7
	No.  1  2  3  4  5  6  7  8  9	No. Condition  1 A.R.  2 A.R.  3 A.R.  4 A.R.  5 A.R.  6 T.C.  7 T.C.  8 T.C.  9 T.C.	No. Condition Walk(%)  1 A.R. 5.74  2 A.R. 5.67  3 A.R. 4.43  4 A.R. 4.61  5 A.R. 4.81  6 T.C. 5.34  7 T.C. 5.33  8 T.C. 5.48  9 T.C. 5.42	No.         Condition         Walk(%)         Side/side(%)           1         A.R.         5.74         5.85           2         A.R.         5.67         5.72           3         A.R.         4.43         4.56           4         A.R.         4.61         4.78           5         A.R.         4.81         4.93           6         T.C.         5.34         5.49           7         T.C.         5.33         5.57           8         T.C.         5.48         5.65           9         T.C.         5.42         5.52	No.         Condition         Walk(%)         Side/side(%)         up/down(%)           1         A.R.         5.74         5.85         5.83           2         A.R.         5.67         5.72         5.89           3         A.R.         4.43         4.56         4.52           4         A.R.         4.61         4.78         4.86           5         A.R.         4.81         4.93         5.05           6         T.C.         5.34         5.49         5.51           7         T.C.         5.33         5.57         5.54           8         T.C.         5.48         5.65         5.57           9         T.C.         5.42         5.52         5.69	No.         Condition         Walk(%)         Side/side(%)         up/down(%)         Talk(%)           1         A.R.         5.74         5.85         5.83         5.83           2         A.R.         5.67         5.72         5.89         5.82           3         A.R.         4.43         4.56         4.52         4.66           4         A.R.         4.61         4.78         4.86         4.85           5         A.R.         4.81         4.93         5.05         5.17           6         T.C.         5.34         5.49         5.51         5.59           7         T.C.         5.33         5.57         5.54         5.48           8         T.C.         5.48         5.65         5.57         5.63           9         T.C.         5.42         5.52         5.69         5.54	No.         Condition         Walk(%)         Side/side(%)         up/down(%)         Talk(%)         Walk(%)           1         A.R.         5.74         5.85         5.83         5.83         5.74           2         A.R.         5.67         5.72         5.89         5.82         5.71           3         A.R.         4.43         4.56         4.52         4.66         4.55           4         A.R.         4.61         4.78         4.86         4.85         4.72           5         A.R.         4.81         4.93         5.05         5.17         5.06           6         T.C.         5.34         5.49         5.51         5.59         5.43           7         T.C.         5.33         5.57         5.54         5.48         5.49           8         T.C.         5.48         5.65         5.57         5.63         5.47           9         T.C.         5.42         5.52         5.69         5.54         5.54

Table 7.9.1-B Facial dimension

	Table 7.3.1-B Facial dimension					
Subject	Face length	Face Width	Face Depth	Mouth Width		
Yi	120	130	109	59		
Gong	122	140	115	65		
Yu	119	160	139	55		
Hu	112	122	119	63		
Xu	110	130	118	60		
Deng	115	119	110	59		
Zhang	112	123	113	55		
Liu	103	130	100	50		
Zhi	118	139	130	63		
Fang	115	129	120	50		

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Table -7.9.2 Penetration of filter material specification: EN 149-2001 Clause 8.11

Aerosol	Condition	Sample No.	Penetration (%)	Assessmen
	100	11	1.51	
diffe	As received	12	1.65	
dill.		13	1.52	
		14	1.56	
Sodium chloride test	Simulated wearing treatment	15	1.63	(0)
emonde test		16	1.68	-
		17	1.59	1
13	Mechanical strength+ Temperature conditioned	18	1.57	
	AAAA	19	1.61	
attle	diff	20	4.84	Pass
	As received	21	4.91	
		22	5.15	
		23	4.92	
Paraffin oil test	Simulated wearing treatment	24	5.36	1 1
A STATE OF THE STA		25	5.29	
	Hil s	26	5.27	
	Mechanical strength+ Temperature conditioned	27	5.34	
	Collection	28	5.31	

**Table 7.11 Flammability** 

Test specification: EN 149-2001 Clause 8.6

Condition	Sample No.	Result	Assessment
As received	29	Burn for 2 s	alf little
	30	Burn for 2 s	Posse
Temperature conditioned	31	Burn for 2 s	Pass
	32	Burn for 3 s	

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