

Certificate CN20/42126

The management system of

# Guangdong Seyouse Technology and Culture Co., Ltd.

Room 307, Building 3, No.8 Chiling Gongye Road, Houjie Town,  
Dongguan City, Guangdong Province, 523000, P.R.China

has been assessed and certified as meeting the requirements of

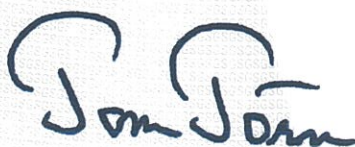
## Regulation (EU) 2016/425 Module C2

For the following activities

**Manufacture of SS-001, SS-002 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 9 July 2020  
and remains valid subject to satisfactory surveillance audits.  
Issue 1. Certified since 9 July 2020

Authorised by



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## Test Report

No.: GZHL2005015012CE

Date: May 26, 2020

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GUANGDONG SEYOUSE TECHNOLOGY AND CULTURE CO., LTD.  
ROOM 307, BUILDING 3, NO. 8 CHILING GONGYE ROAD, HOUJIE TOWN, DONGGUAN CITY, GUANGDONG  
PROVINCE, CHINA.

Sample Description : FFP2 PROTECTIVE FACE MASK  
Style / Item No. : SS-001  
Manufacturer : GUANGDONG SEYOUSE TECHNOLOGY AND CULTURE CO., LTD.  
Country of Origin : CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

\*\*\*\*\*

Sample Receiving Date : May 08, 2020  
Test Performing Date : May 08, 2020 to May 25, 2020  
Test Performed : Selected test(s) as requested by applicant  
Test Result(s) :

Test Requested	Result
EN 149-2001+A1-2009 excluding Clause 9 & 10	Pass

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Arthur Mak  
Authorized Signatory



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Member of the SGS Group (SGS SA)



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

**Scope:** This European Standard specifies minimum requirements for filtering half masks as respiratory protective devices to protect against particles except for escape purposes.

Laboratory and practical performance tests are included for the assessment of compliance with the requirements.

### 1. Sample description and classification:

Sample Name	<b>Particle filtering half mask</b>
Classification	<input type="checkbox"/> FFP1 <input checked="" type="checkbox"/> FFP2 <input type="checkbox"/> FFP3 <input checked="" type="checkbox"/> "NR" (if the particle filtering half mask is limited to single shift use only.) <input type="checkbox"/> "R" (if the particle filtering half mask is re-usable. )
Model(s)	SS-001

### 2. Test Results: Details shown as following table

Clause	Test Item	Test Requirement / Test Method	Result
<b>7 Requirement</b>			
7.3	Visual inspection	The visual inspection shall also include the marking and the information supplied by the manufacturer.	NT
7.4	Packaging	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.  Testing shall be done in accordance with 8.2.	Pass
7.5	Material	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. 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.  Three particle filtering half masks shall be tested.  When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.  Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.  Testing shall be done in accordance with 8.2.	Pass
7.6	Cleaning and disinfecting	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. Testing shall be done in accordance with 8.4 and 8.5.  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.  Testing shall be done in accordance with 8.11.	NA
7.7	Practical performance	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	Pass



Clause	Test Item	Test Requirement / Test Method	Result														
		that cannot be determined by the tests described elsewhere in this standard.  Where practical performance tests show the apparatus has imperfections related to wearer's acceptance, the test house shall provide full details of those parts of the practical performance tests which revealed these imperfections.  Testing shall be done in accordance with 8.4.															
7.8	Finish of parts	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.  Testing shall be done in accordance with 8.2.	Pass														
7.9	Leakage	---	---														
7.9.1	Total inward leakage	The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected.  The total inward leakage consists of three components: face seal leakage, exhalation valve leakage (if exhalation valve 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 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.  Testing shall be done in accordance with 8.5.	Pass See table 1&2														
7.9.2	Penetration of filter material	The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1. Table 1 — Penetration of filter material <table><tr><th rowspan="2">Classification</th><th colspan="2">[A<sub>1</sub>] Maximum penetration of test aerosol [A<sub>1</sub>]</th></tr><tr><th>Sodium chloride test 95 l/min % max.</th><th>Paraffin oil test 95 l/min % max.</th></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></table> A total of 9 samples of particle filtering half masks shall be tested for each aerosol. Testing in accordance with 8.11 using the Penetration test according to EN 13274-7, shall be performed on:  - 3 samples as received; - 3 samples after the simulated wearing treatment described in 8.3.1.  Testing in accordance with 8.11 using the Exposure test with a specified mass of test aerosol of 120 mg, and for particle filtering devices claimed to be re-usable	Classification	[A <sub>1</sub> ] Maximum penetration of test aerosol [A <sub>1</sub> ]		Sodium chloride test 95 l/min % max.	Paraffin oil test 95 l/min % max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	Pass See table 3
Classification	[A <sub>1</sub> ] Maximum penetration of test aerosol [A <sub>1</sub> ]																
	Sodium chloride test 95 l/min % max.	Paraffin oil test 95 l/min % max.															
FFP1	20	20															
FFP2	6	6															
FFP3	1	1															



Clause	Test Item	Test Requirement / Test Method	Result
		<p>additionally the Storage test, according to EN 13274-7, shall be performed:</p> <ul style="list-style-type: none"> <li>- for non-re-usable devices on: <ul style="list-style-type: none"> <li>- 3 samples after the test for mechanical strength in accordance with 8.3.3 followed by temperature conditioning in accordance with 8.3.2.</li> </ul> </li> <li>- for re-usable devices on: <ul style="list-style-type: none"> <li>- 3 samples after the test for mechanical strength in accordance with 8.3.3 followed by temperature conditioning in accordance with 8.3.2. and followed by one cleaning and disinfecting cycle according to the manufacturer's instruction.</li> </ul> </li> </ul>	
7.10	Compatibility with skin	<p>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.</p> <p>Testing shall be done in accordance with 8.4 and 8.5.</p>	Pass
7.11	Flammability	<p>The material used shall not present a danger for the wearer and shall not be of highly flammable nature.</p> <p>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.</p> <p>The particle filtering half mask does not have to be usable after the test.</p> <p>Testing shall be done in accordance with 8.6.</p>	Pass See table 4
7.12	Carbon dioxide content of the inhalation air	<p>The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).</p> <p>Testing shall be done in accordance with 8.7.</p>	Pass See table 5
7.13	Head harness	<p>The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.</p> <p>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.</p> <p>Testing shall be done in accordance with 8.4 and 8.5.</p>	Pass
7.14	Field of vision	<p>The field of vision is acceptable if determined so in practical performance tests.</p> <p>Testing shall be done in accordance with 8.4.</p>	Pass
7.15	Exhalation valve(s)	<p>A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.</p> <p>Testing shall be done in accordance with 8.2 and 8.9.1.</p> <p>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.</p> <p>Testing shall be done in accordance with 8.2.</p> <p>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.</p> <p>Testing shall be done in accordance with 8.3.4.</p>	NA



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Clause	Test Item	Test Requirement / Test Method	Result																						
		When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.  Testing shall be done in accordance with 8.8.																							
7.16	Breathing resistance	<p>The breathing resistances apply to valved and valveless particle filtering half masks and shall meet the requirements of Table 2.</p> <p>Testing shall be done in accordance with 8.9.</p> <p style="text-align: center;"><b>Table 2 — Breathing resistance</b></p> <table border="1"> <thead> <tr> <th rowspan="3">Classification</th><th colspan="3">Maximum permitted resistance (mbar)</th></tr> <tr> <th colspan="2">inhalation</th><th>exhalation</th></tr> <tr> <th>30 l/min</th><th>95 l/min</th><th>160 l/min</th></tr> </thead> <tbody> <tr> <td>FFP1</td><td>0,6</td><td>2,1</td><td>3,0</td></tr> <tr> <td>FFP2</td><td>0,7</td><td>2,4</td><td>3,0</td></tr> <tr> <td>FFP3</td><td>1,0</td><td>3,0</td><td>3,0</td></tr> </tbody> </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	Pass See table 6
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																						
7.17	Clogging	---	---																						
7.17.2	Breathing resistance	---	---																						
7.17.2.1	Valved particle filtering half masks	<p>After clogging the inhalation resistances shall not exceed</p> <ul style="list-style-type: none"> <li>- FFP1: 4 mbar</li> <li>- FFP2: 5 mbar</li> <li>- FFP3: 7 mbar</li> </ul> <p>at 95 l/min continuous flow; The exhalation resistance shall not exceed 3 mbar at 160 l/min continuous flow. Testing shall be done in accordance with 8.9.</p>	NA																						
7.17.2.2	Valveless particle filtering half masks	<p>After clogging the inhalation and exhalation resistances shall not exceed</p> <ul style="list-style-type: none"> <li>- FFP1: 3 mbar</li> <li>- FFP2: 4 mbar</li> <li>- FFP3: 5 mbar</li> </ul> <p>at 95 l/min continuous flow. Testing shall be done in accordance with 8.9.</p>	NA																						
7.17.3	Penetration of filter material	<p>All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements given in 7.9.2, for the Penetration test according to EN 13274-7, after the clogging treatment. Testing shall be done in accordance with 8.11 using EN 13274-7.</p>	NA																						
7.18	Demountable parts	<p>All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.  Testing shall be done in accordance with 8.2.</p>	Pass																						

**Remark:**

1. NA = Not applicable.
2. NT = Not tested as per client's request.
3. Above test was subcontracted to National Quality Supervision and Testing Center for Personal Protective Equipment (Beijing)  
(Testing Laboratory for Labour Protection Products of Beijing Municipal Institute for Labour Protection)



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**Table 1 Total inward leakage**  
**Test specification: EN 149-2001 Clause 8.5**

Subject	Sample No.	Condition	Walk(%)	Head Side/side(%)	Head up/down(%)	Talk(%)	Walk(%)	Mean(%)
Yi	1	A.R.	8.13	8.59	8.33	8.19	8.43	8.3
Gong	2	A.R.	6.54	7.12	6.76	6.86	6.86	6.8
Hu	3	A.R.	6.84	6.95	7.24	7.27	7.12	7.1
Xu	4	A.R.	7.11	7.69	7.40	7.18	7.18	7.3
Deng	5	A.R.	8.17	8.39	8.61	8.46	8.61	8.4
Liu	6	T.C.	6.81	7.39	6.96	7.14	7.22	7.1
Zhi	7	T.C.	6.77	7.15	6.84	6.78	6.81	6.9
Fang	8	T.C.	6.98	7.35	7.38	7.17	7.34	7.2
Chen	9	T.C.	6.26	6.43	6.75	6.54	6.57	6.5
Lv	10	T.C.	6.69	7.10	6.90	6.76	6.87	6.9
All <u>50</u> individual exercise results were not greater than <u>11</u> % <u>8</u> out of <u>10</u> individual wearer arithmetic means were not greater than $\leq$ <u>8</u> %							Pass	

**Table 2 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
Chen	116	150	132	56
Lv	110	121	110	53



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**Table 3 Penetration of filter material**  
**Test specification: EN 149-2001 Clause 8.11**

Aerosol	Condition	Sample No.	Penetration (%)	Assessment
Sodium chloride test	As received	11	0.148	Pass
		12	0.254	
		13	0.171	
	Simulated wearing treatment	14	0.251	
		15	0.268	
		16	0.352	
	Mechanical strength+ Temperature conditioned	17	0.473	
		18	0.548	
		19	0.511	
Paraffin oil test	As received	20	2.77	
		21	2.94	
		22	2.81	
	Simulated wearing treatment	23	3.21	
		24	3.34	
		25	3.17	
	Mechanical strength+ Temperature conditioned	26	4.51	
		27	4.67	
		28	4.79	
Flow conditioning:   Single filter:   95.0 L/min				



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**Table 4 Flammability**  
**Test specification:EN 149-2001 Clause 8.6**

Condition	Sample No.	Result	Assessment
As received	29	Burn for 1 s	Pass
	30	Burn for 1 s	
Temperature conditioned	31	Burn for 1 s	
	32	Burn for 1 s	

**Table 5 Carbon dioxide content of the inhalation air**  
**Test specification:EN 149-2001 Clause 8.7**

Condition	Sample No.	Result	Assessment
As received	33	0.42%	Pass
	34	0.38%	
	35	0.39%	
		Mean value 0.4%	



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**Table 6 breathing resistance (mbar)**  
**Test specification: EN 149-2001 Clause 8.9**

	Flow rate		36					37					38				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
As received	Inhalation	30 l/min	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.6	0.6	0.6	0.5
		95 l/min	1.8	1.9	1.9	1.9	2.0	1.9	2.0	1.9	2.0	1.9	1.8	1.8	2.0	1.9	2.0
	Exhalation	160 l/min	2.0	2.1	2.0	2.1	2.0	2.0	2.1	2.0	2.2	2.1	2.2	2.1	2.2	2.0	2.0
Simulated wearing treatment	Inhalation	30 l/min	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6	0.5	0.6	0.6	0.6	0.6
		95 l/min	1.8	1.9	1.9	1.8	1.8	1.8	2.0	1.9	1.8	1.9	1.8	2.0	2.0	1.9	1.8
	Exhalation	160 l/min	2.1	2.1	2.1	2.2	2.1	2.0	2.0	2.0	2.1	2.2	2.2	2.0	2.1	2.1	2.2
Temperature conditioned	Inhalation	30 l/min	0.6	0.6	0.5	0.7	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.7	0.5	0.6	0.5
		95 l/min	1.8	1.9	1.8	1.9	1.8	1.8	1.8	2.0	1.9	1.9	1.8	2.0	1.9	1.9	1.8
	Exhalation	160 l/min	2.0	2.0	2.1	2.1	2.1	2.2	2.1	2.0	2.1	2.1	2.1	2.1	2.1	2.0	2.1
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

### Sample Photo(s):



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\*\*\*End of Report\*\*\*



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Guangzhou Branch Testing Center Headlines

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## EC Declaration of Conformity



Council Directive R 2016/425 (Regulation on Personal Protective Equipment)

**Manufacturer**

Manufacturer: Guangdong Seyouse Technology and Culture Co., Ltd.

Address: Room 307, Building 3, No.8 Chiling Gongye Road, Houjie Town, Dongguan City, Guangdong Province, 523000, P.R.China

**EC Representative**

Name: Universal Certification and Surveillance Service Trade Ltd. Co.

Address: Necip Fazıl Bulvarı Keyap Sitesi E2 Blok No: 44/84 Yukarı Dudullu Ümraniye-Istanbul

Product Name: FFP2 KN95 Face Mask

Model: SS-001

Type: See Annex of Details

Classification: I

Rule: According to Rule 1

We confirm our product can meet the requirement of Personal Protective Equipment and the following harmonized standards.

EN149:2001+A1:2009

EN ISO/IEC 17065

Signature:

Date: 2020-06-04

