





Test Report OPHARM SP.Z O.O. SL52045313232001TX-1

Date: December 17,2020

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POKRZYWNICA 62,99-120 PIATEK.

THIS REPORT CANCELS AND SUPERSEDES THE TEST REPORT NO. SL52045313232001TX DATE: 2020-12-15 ISSUED BY SGS (SHANGHAI) UPDATED TEST INFORMATION.

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

Sample Description (A)Particle Filtering Half Mask

Sample Color (A)WHITE OPP2 Style No.

Test Performed Selected test(s) as requested by applicant

Sample Receiving Date Nov 24, 2020 & Nov 30, 2020 Testing Period Nov 30, 2020 - Dec 15, 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	SHIP
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	Pass
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Comply	2. O B
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	Oblyli

#### 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 d <mark>esign</mark> ed to be r <mark>e-usa</mark> ble)	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
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	Detail refer to Ap <mark>pendix</mark> 1	Meet FFP1, Meet FFP2
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	Ar OPHAR	PHAR

# 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.	4.68	3.54	4.03	3.74	4.14	4.03
Luo	2	A.R.	5.29	4.84	3.79	5.48	5.45	4.97
Lu	3	A.R.	4.20	4.01	3.13	5.19	5.04	4.31
Wang	4	A.R.	4.08	2.52	2.69	3.47	2.36	3.02
Bao	5	A.R.	5.69	4.33	4.44	5.04	6.52	5.20
Ding	6	T.C.	3.14	3.67	3.56	4.37	3.37	3.62
Li O	7	T.C.	4.27	6.35	6.23	5.46	5.45	5.55
Chen	8	T.C.	3.01	4.90	3.64	4.11	2.52	3.64
Song	9	T.C.	5.54	4.08	4.67	4.73	4.70	4.74
Ye	10	T.C.	5.94	5.50	5.35	5.87	6.11	5.75

# 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 N	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
Ding	134	150	110	52



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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)

4	O Ch	Test Requirement	Results	Comment		
		of the filter of the particle filte he following table.	ering half mask shall meet	the	Shi	SHI
	Classifica	Maximum penetrati	on of test aerosol		Ο,	Ο.
17.0	tion	Sodium chloride test 95 I/min %	Paraffin oil test 95 l/min		Detail refer to	Meet FFP1, Meet FFP2,
	- D		%	1	Appendix 2	Meet FFP3
-	1/4/	max.	max.	N.	1/4/1	1/1/
	FFP1	20	20	00	0,	01
	FFP2	6	6	-	0,	0,
.0	FFP3	1 1	1			2

#### Appendix 2: Summarization of Test Data

# Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)
7 1 2 2	3 25 63 25 63	1	0.320
L M. Vla 1	As received	2	0.329
7/11	7/1 7/1 7/1	3	0.315
8,	8, 8, 8,	4	0.321
Sodium chloride test	Simulated wearing treatment	5	0.334
		6	0.326
6.23 46.8	Mechanical strength +Temperature conditioned	7 7	0.431
- M G- 1		8	0.459
17/1-	conditioned	9	0.462
6/	As received	10	0.118
0, (		11	0.126
		12	0.103
and and	2 40	13	0.152
Paraffin oil test	Simulated wearing treatment	14	0.143
1/2	1/2.	15	0.122
OK.	Mechanical strength +Temperature	16	0.392
0, 0	conditioned	17	0.404
	Conditioned	18	0.443



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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 i <mark>rri</mark> tati <mark>o</mark> n 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	Detail refer to	OX
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.	Appendix 3	Pass

# Appendix 3: Summarization of Test Data

### Flammability

Condition	Sample No.	Result
Officer of the	1	NIL
As received	2	O NILO
	3	NIL
Temperature conditioned	4 2	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)	Deta <mark>il refe</mark> r to Appendix 4	Pass

#### Appendix 4: Summarization of Test Data

# Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Resu	ilt(%)
OPHI.	PHY PHY	0.5826	Bly, Bly,
As received	2	0.5833	Mean value:0.58
$r_{L_{0}} \bigcirc \mathcal{C}_{L_{0}}$	32	0.5821	62, C 62, C 6



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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	2.00
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	Pass

#### 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	NO S
(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	N.A.
(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	VO US
(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	Obly





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Clause 7.16 Breathing Resistance

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

100	Test	Requirement	1 01		Results	Comment
The <mark>b</mark> rea <mark>th</mark> ing re meet the requirer			cle <mark>fil</mark> teri <mark>n</mark> g half ma	sk shall	Br. CAUS	LIAR
Classification	Maximu	m permitted resis	tance (mbar)	5,	Dataillasfacta	Meet FFP1,
O,	Inh	alation	Exhalation	O. I	Detail refer to	Meet FFP2,
	30 l/min	95 I/min	160 l/min		Appendix 5	Meet FFP3
FFP1	0.6	2.1	3.0		5 CM 12	200
FFP2	0.7	2.4	3.0		6. O 6.	
FFP3	1.0	3.0	3.0	. 28		18/2

Appendix 5: Summarization of Test Data

# Breathing resistance (mbar)

				10	1		10	200		2	2			Dr.	3	-	De
Flow rate(I		/min)	Α	В	С	D	E	Α	В	C	D	E	Α	В	С	D	E
As received	Inhalation	30	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.3	0.4	0.3	0.4	0.4	0.4
. 0	Inhalation	95	1.4	1.3	1.4	1.4	1.3	1.4	1.4	1.3	1.4	1.3	1.4	1.4	1.4	1.3	1.3
1	Exhalation	160	2.4	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.3	2.4	2.4	2.3	2.4	2.4	2.4
		. 02	K	7	4	T.	3	5 0			6						
Simulated	Flow rate(	/min)	Α	В	С	D	E	Α	В	C	D	E	Α	В	С	D	E
wearing	Inhalation	30	0.3	0.4	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.3	0.4	0.4
treatment	Inhalation	95	1.3	1.4	1.4	1.4	1.3	1.3	1.4	1.4	1.3	1.4	1.3	1.3	1.3	1.4	1.4
-	Exhalation	160	2.3	2.4	2.4	2.4	2.3	2.3	2.3	2.4	2.3	2.4	2.4	2.3	2.3	2.3	2.4
1	-100		100		7	100			10	8	-	10	-	-	9	W.	- 4
72 673	Flow rate(	/min)	Α	В	C	D	E	A	В	C	D	E	A	В	C	D	E
Temperature conditioned	2 6	30	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.3
	Inhalation	95	1.3	1.3	1.3	1.3	1.4	1.4	1.3	1.3	1.4	1.4	1.3	1.4	1.4	1.3	1.3
O,	Exhalation	160	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.4	2.3	2.4	2.3

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)

100	Test Requirement	001	Results	Comment
Valved particle fill After clogging the FFP1: 4 mbar, FF	eathing resistance tering half masks: e inhalation resistances shall not P2: 5 mbar, FFP3: 7 mbar at 95 esistance shall not exceed 3 mb	L/min continuous flow	Optional for single shift device only	N.A.
After clogging the FFP1: 3 mbar, FF	filt <mark>ering half masks:</mark> inhalation and exhalation resis FP2: 4 mbar, FFP3: 5 mbar at 95		Kr. C. AR	CHAR
All types (valved	and valveless) of particle filter g requirement shall also meet th		4 0 2	0,
Classificatio	Maximum penetration	n of test aerosol	Outional for size to	O. Ch
n	Sodium chloride test 95 l/min %	Paraffin oil test 95 l/min %	Optional for single shift device only	N.A.
0,	max.	max.	0,	0,
FFP1	20	20		
FFP2	6	6	26,000	1
FFP3	TI V	1	to. O to	W. C.

# 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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