

FFP2 Mask Product Introduction

Model: DOC-NFC



High Efficiency
Filtration



Strict
Protection



3D Design

Technical Parameters



Technical Parameters 技术参数			
型号 Model	DOC-NFC	产品主材/Mask Materials	
级别 Level	FFP2	一层 (外层) 1st-layer (Outermost)	75g 无纺布 Non-woven fabric
口罩尺寸 Mask Size	16cm*11cm	二层 2nd-layer	25g 热风棉 Hot air cotton
重量 Weight	5g	三层 3rd-layer	25g 熔喷布 Melt spray cloth
佩戴方式 Wearing Method	耳带 ear-strap	四层 4th-layer	25g 熔喷布 Melt spray cloth
耳线长度 Ear Cord Length	18cm	五层 5th-layer	25g 无纺布 Non-woven fabric
形状 Shape	C型 C-Type	呼气阀 Exhalation valve	/
配件 Accessories		挂钩hook up	

Packaging Information



FFP2 / DOC-NFC (NON-EXHALATION VALVE)			
产品描述 Product Description	每盒数量 PCS/BOX	每箱盒子数 BOXES/CTN	每箱数量 PCS/CTN
Folding-Type Ear Ribbon	50	30	1500
盒子规格 BOX SIZE(mm)	箱子规格 CTN SIZE(mm)	净重 NW	毛重 GW
175*125*200	640*540*420	14.2	15.7

Instruction



DOC-NFC

Usage/ Limitations

This respirator is suitable for use in protection against the non-toxic solid and liquid aerosols. Do not use out of the scope of use defined in the warnings.

FFP1 NR: Filter Efficiency 80%; Examples of applications are Handling of stone / rubble / cellulose.

FFP2 NR: Filter Efficiency 94%; Examples of applications are Sanding of soft wood, composite materials, rust, putty, plaster, plastics / cutting, deburring, grinding, drilling of metal.

FFP3 NR: Filter Efficiency 99%; Examples of applications are Sanding of hard wood (beech, oak) / treatment of wood using copper, chrome or arsenic based products / impact stripping of paint / sanding of cement.

Warnings

1. Failure to follow all instructions and limitations on the use of this product, or failure to achieve proper fit, may result in damage to your health.

2. A properly selected respirator is essential to protect your health. Before using this respirator consult a suitably qualified safety professional to determine the suitability of the product for your intended use.

3. This product does not supply oxygen. Use only in adequately ventilated areas containing sufficient oxygen to support life. Do not use this respirator when the oxygen concentration is less than 19.5%.

4. Do not use when concentrations of contaminants are immediately dangerous to health or life. Do not use this product in an explosive atmosphere.

5. Leave the work area immediately if: a) breathing becomes difficult or b) dizziness or other distress occurs.

6. Facial hair, beards and certain facial characteristics may reduce the effectiveness of this respirator.

7. Never alter or modify this respirator in any way (except as indicated in the instructions).

8. "NR" means this filtering half mask shall not be used for more than one shift. No maintenance is necessary. Discard respirator after use or if damaged in any way.

9. The length of time this respirator can be used depends on contaminants present but should not exceed one shift. The respirator should be replaced sooner if breathing becomes difficult.

10. Keep respirators in the display box away from direct sunlight or contaminants until use. Ambient storage conditions as temperature between -30 °C to +70 °C, and relative humidity <80%.





11. Unless this is fitted according to the "Easy to use" instructions the respirator will not provide the expected level of protection.

12. This respirator is suitable for use in protection against the non-toxic solid and liquid aerosols.

13. Failure to achieve proper fit may result in serious health damage.

14. The respirators must be stored and transported in their original package and protected by the storage temperature and humidity as suggested by the manufacturer.

Marking

Marking on Product	Description on label	Explanation
 DOC-NFC FFP2 NR EN149:2001+A1:2009  0598		Identification Mark
	DOC-NFC	Product Identification
	 0598	CE mark
	EN149:2001+ A1:2009	Number of European Standard
	FFP2 NR	Protection Category

Information of Manufacturer

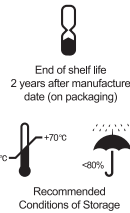
Manufacturer: NEOLITHIC TECH CO.,LTD.
 Address: Building 1, No.13, Shinan Road, Nansha District, Guangzhou
 Tel: +86 20 84557556
 Email: mask@neolithage.com
 Website: www.neolithage.com www.neolithage.cn

EU- Type Examination Notified Body

Notified Body: AENOR INTERNACIONAL, S.A.(Unipersonal)
 Address: Génova,6, E -28004 MADRID, Spain
 Notified Body No.: 0099

Quality Assurance of the Production Process Notified Body

Notified Body: SGS Fimko Oy
 Address: Takomotie 8, FI-00380 Helsinki, Finland
 Notified Body No.: 0598



Please read this User Information Sheet carefully before using this product. This product complies with the requirements of EU Regulation (EU) 2016/425 for Personal Protective Equipment and meets the requirements of European standard EN149:2001+A1:2009.

Check before use

The mask must be selected properly for intended application. An individual risk assessment must be evaluated. Check the mask that it is undamaged with no visible defects. Check that the expiry date has not been reached (see the packaging). Check the protection class (FFP1 NR/ FFP2 NR/ FFP3 NR) is appropriate for the product used and its concentration. Do not use the mask if a defect is present or the expiry date has been exceeded.

This product is designed to protective against the risks

These devices are designed to protect against both solid and liquid aerosols.

Risk	Standard Clause	Assessment method
Penetration of particle	EN 149:2001+A1:2009 clause 7.3.1 and 7.3.2	Total inward leakage test, Penetration of filter material

Easy to Use

1. Unfold the mask.
2. Position the mask under the chin covering mouth and nose.
3. Adjust the harness to make it comfortable.
4. Press soft nosepiece to conform snugly around the nose.
5. To check fit, both hands over the mask and exhale vigorously. If air flows around nose, tighten the nosepiece. If air leaks around the edge, reposition the harness for better fit. Re-check the seal and repeat the procedure until the mask is sealed properly.



EU DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY



Manufacturer:

NEOLITHIC TECH CO.,LTD.
Address: Room 108, building 1, No. 13,
Shinan Road, Nansha District,
Guangzhou, Guangdong, China.

whose single Authorized EU-Representative:

SGS Fimko Oy
Address: Takomotie 8, FI-00380 Helsinki,
Finland

declare in sole
responsibility:

product name: Protective Mask
model Code: 1. DOC-TNC
2. DOC-NFC

being in conformity
with the respective
regulations of the
following guide:

standard: EN 149:2001+A1:2009

related to CE Directive(s):
R2016/425 (Personal Protective Equipment)

City:Guangzhou Guangdong, date:2020.08.14

Signature:


For and on behalf of
新石器科技股份有限公司
NEOLITHIC TECH CO.,LTD

Authorized Signature

Moudle B+Moudle D

AENOR

**Certificado de Examen UE de Tipo
EU Type-Examination Certificate**

A18/000046

AENOR, como organismo notificado (nº 02099) para el Reglamento (UE) 2016/425, ha emitido este certificado a favor de
in compliance with Regulation (EU) 2016/425, the certified body AENOR (nº 02099) has issued this certificate to:

NEOLITHIC TECH CO., LTD.

Domicilio social / Registered office
para el producto / for the product: Building 1, No. 13, Shinan Road Nansha District, Guangzhou (China)

conforme con el Reglamento
in compliance with Regulation: Reglamento UE 2016/425 de Equipos de Protección Individual (Regulation EU 2016/425 on Personal Protective Equipment)

Norma armonizada / Harmonized standard: EN 149:2001+A1:2009

Más información en el anexo / See annex for more information.

Centro de producción / Production site: Building 1, No. 13, Shinan Road Nansha District, Guangzhou (China)

Esquema de evaluación
Assessment scheme: Anexo V (Examen UE de Tipo – Módulo B) del Reglamento (UE) 2016/425.

Fecha de emisión / First issued on: 2020-06-29
Fecha de expiración / Validity date: 2025-06-29

Rafael GARCÍA MEIRO
Director General / CEO

Organismo de control acreditado por ENAC con acreditación N° LC-PR554
Control body accredited by ENAC. Accreditation number LC-PR554

AENOR INFORMACION LAB
Calleja 4, 28002 Madrid, España
Tel. 92 432 60 00 - www.aenor.com

Original document certificate

AENOR

**Certificado de Examen UE de Tipo
EU Type-Examination Certificate**

A18/000046

**Anexo al Certificado
Annex to Certificate**

Norma armonizada / Harmonized standard: EN 149:2001+A1:2009

Marca Comercial / Trade Mark	Referencia / Reference	Clasificación / Classification	Descripción / Description
DOC	DOC-NFC	FFP2 NR	MEDIA MASCARILLA DE CINCO CAPAS DE FILTRADO, DOS LAZOS FIJOS DE SUJECCION A OREJAS DE TIPO PLEGABLE DISEÑADA PARA PROTEGER CONTRA PARTICULAS SOLIDAS O LIQUIDAS SUSPENDIDAS EN EL AIRE. NO REUTILIZABLE / FILTERING HALF MASK, FIVE FILTERING LAYERS, TWO EARLOOPS, FOLDING STYLE, DESIGNED TO PROTECT AGAINST AIRBORNE SOLID OR LIQUID PARTICLES. NON-REUSABLE.

Fecha de emisión / First issued on: 2020-06-29
Fecha de expiración / Validity date: 2025-06-29

Organismo de control acreditado por ENAC con acreditación N° LC-PR554
Control body accredited by ENAC. Accreditation number LC-PR554

AENOR INFORMACION LAB
Calleja 4, 28002 Madrid, España
Tel. 92 432 60 00 - www.aenor.com

Original document certificate

SGS

Certificate CN2042172

The management system of

NEOLITHIC TECH CO., LTD.
Building 1, No. 13, Shinan Road, Nansha District,
Guangzhou, Guangdong Province, 511400, P.R. China

has been assessed and certified as meeting the requirements of

Regulation (EU) 2016/425
Module D

For the following activities

Manufacture of FFP1/FFP2/FFP3 Protective Respirators
(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 the PPE Directive 89/686/EEC.)

This certificate is valid from 4 August 2020 until 3 August 2023
and remains valid subject to satisfactory surveillance audits.
Re certification audit due before 24 July 2023
Issue 1. Certified since 4 August 2020

Authorised by

SGS FIMKO OY, Notified Body 0598
Tasaviehkienkatu 2, FI-00030 Helsinki, Finland
+3589 699 301 7-008 9 692 5474 - www.sgs.com

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Test Report

Report No.: [2020] WSZ FHL NO.5329



Test Report

Report No.: [2020] WSZ FHL NO.5329

Product Name Filtering half mask

Applicant NEOLITHIC TECH CO.,LTD.

Manufacturer NEOLITHIC TECH CO.,LTD.

Test Type Entrusted inspection

Jiangsu Guojian Testing Technology Co., Ltd.
3/F., Unit D, Xinye Building, Taihu International Tech Park, Wuxi, Jiangsu, China

Test Report

Product name	Filtering half mask	Model name		Doc-NFC	
		Brand	Doc		
Laboratory/ Add:	Jiangsu Guojian Testing Technology Co., Ltd./ 3/F., Unit D, Xinye Building, Taihu International Tech Park, Wuxi, Jiangsu, China				
Applicant/ Add/Tel	NEOLITHIC TECH CO.,LTD./Room 108, Building 1, No. 13, Shinan Road, Nansha District, Guangzhou, China/18928760666				
Manufacturer/ Add/Tel	NEOLITHIC TECH CO.,LTD./Room 108, Building 1, No. 13, Shinan Road, Nansha District, Guangzhou, China/18928760666				
Sample classification	FFP2	Sample number	GW5329-2020		
Sample quantity	110 pcs	Date of receipt of sample	08/05/2020		
Test type	Entrusted inspection	Article/Batch/Style number	Doc-NFC		
Date (s) of performance of tests	10/05/2020-22/05/2020	Testing location	Same as the Laboratory		
Sample state	Meeting the requirements of testing	Sample description	Refer to page 3		
Test standard(s)	EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking				
Test items	Packaging, material, practical performance, finish of parts, compatibility with skin, flammability, carbon dioxide content of the inhalation air, head harness, field of vision, penetration of filter material, breathing resistance, total inward leakage				
Test conclusion	The samples upon testing comply with FFP2 classification requirements according to the standard EN 149:2001+A1:2009. The details of test results refer to Page 3.				
Note	The test results presented in this report relate only to the submitted sample as received.				

Lu Ding Approver (name, signature)

Wan Jie Reviewer (name, signature)

Yuan Ying Chief Tester (name, signature)

Report No.: [2020] WSZ FHL NO.5329

Sample description:	Doc-NFC
Test item particulars:	
Type of use	<input type="checkbox"/> re-usable particle filtering half mask <input checked="" type="checkbox"/> single shift only particle filtering half mask
Classes of devices	<input type="checkbox"/> FFP1 <input checked="" type="checkbox"/> FFP2 <input type="checkbox"/> FFP3
Exhalation valve(s)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Inhalation valve(s)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Designed to protect against both solid & liquid aerosols:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Possible test case verdicts:	
- Test case does not be required to the test object	: NRq (Not required)
- Test case does not apply to the test object	: N/A (Not Applicable)
- Test object does meet the requirement	: P (Pass)
- Test object does not meet the requirement	: F (Fail)
General remarks:	
The test results presented in this report relate only to the submitted sample as received. This report shall not be reproduced, except in full, without the written approval of the issuing Laboratory can provide assurance that parts of a report are not taken out of context. Determination of the test results includes consideration of measurement uncertainty from the test equipment and methods. Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
Environmental conditions of the testing in this report:	
1) Unless otherwise specified, the ambient temperature for testing shall be 25 °C;	
2) T.C. Temperature conditioned:	
a) for 24 h to a dry atmosphere of 70 °C; b) for 24 h to a temperature of -30 °C; and return to room temperature 25 °C for 4 h between exposures and prior to subsequent testing.	

Report No.: [2020] WSZ FHL NO.5329

S.No (Cl.No)	Test item	Unit	Technical requirements	Test result	Single item decision
1 (7.3)	Visual inspection	Marking/ information	Marking and the information supplied by the manufacturer, requirements refer to Cl.9 and Cl.10	The clause were not required	NRq
2 (7.4)	Packaging	Visual inspection	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.	Particle filtering half masks packaged and protected against mechanical damage and contamination.	Pass
3 (7.5)	Material	Visual inspection	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 S.W., none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps. After undergoing S.W. and T.C., none of the particle filtering half masks 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.	Materials were suitable withstand handling and wear. Sample 1: neither facepiece nor straps have mechanical failure Sample 2: neither facepiece nor straps have mechanical failure Sample 3: neither facepiece nor straps have mechanical failure Sample 4: no collapse Sample 5: no collapse Sample 6: no collapse Not constitute a hazard or nuisance for the wearer	Pass
4 (7.6)	Cleaning and disinfecting		Particle filtering half mask 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.	<input type="checkbox"/> Fulfill the requirements after testing, or <input checked="" type="checkbox"/> The Particle filtering half mask is NOT re-usable according to information supplied by manufacturer	N/A

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S.No (C.No)	Test item	Unit	Technical requirements	Test result	Single item decision
5 (7.7)	Practical performance	Head harness comfort	Head harness should be comfort.	Sample 1: has the feeling of comfortable wearing Sample 2: has the feeling of comfortable wearing	Pass
		Security of fastenings	Fastenings are safe and reliable	Sample 1: All fastenings are firm Sample 2: All fastenings are firm	
		Field of vision	Field of vision is acceptable	Sample 1: Having a wider visual field Sample 2: Having a wider visual field	
6 (7.8)	Finish of parts	Visual inspection	Parts of the device likely to come into contact with the wearer shall have no sharp edges and burrs	Parts of the device have no sharp edges and burrs	Pass
7 (7.9.2)	Leakage— Penetration of filter material	Sodium chloride	≤6%	A.R. ¹⁾ 0.1% 0.1% 0.1% S.W. ²⁾ 0.2% 0.1% 0.1% M.S.+ T.C. ³⁾ 0.3% 0.3% 0.3%	Pass
		Paraffin oil	≤6%	A.R. ¹⁾ 0.2% 0.2% 0.3% S.W. ²⁾ 0.2% 0.3% 0.3% M.S.+ T.C. ³⁾ 1.2% 1.2% 1.4%	Pass

¹⁾ average penetration over a time of 30s, beginning 3 min after the start of the test reported
²⁾ max. penetration during exposure test reported.
Note:
The penetration of the filter of the particle filtering half mask shall meet the requirements below:
Maximum penetration of sodium chloride aerosol test 95 L/min max. FFP1: 20%, FFP2: 6%, FFP3: 1%
Maximum penetration of paraffin oil aerosol test 95 L/min max. FFP1: 20%, FFP2: 6%, FFP3: 1%

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Test Report Form No. EN149_C Dated 2020-05

Report No.: [2020] WSZ.FHL.NO.5329

S.No (C.No)	Test item	Unit	Technical requirements	Test result	Single item decision
8 (7.10)	Compatibility with skin	—	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.	A.R. 5 pcs all don't cause irritation T.C. 5 pcs all don't cause irritation	Pass
9 (7.11)	Flammability	—	When tested, the particle-filtering half mask shall not burn or act to continue to burn for more than 5s after removal from the flame.	A.R. The Sample is burning. Burning time:0.1s T.C. The Sample is burning. Burning time:0.1s The Sample is burning. Burning time:0.1s	Pass
10 (7.12)	Carbon dioxide content of the inhalation air	—	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0 % (by volume). Remark: 3 half masks (S1, S2 and S3) A.R. tested.	Sample 1 0.6370% Sample 2 0.6330% Sample 3 0.6340% average 0.63%	Pass
11 (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	A.R. All of 5 pieces particle filtering half mask meet the requirements T.C. All of 5 pieces particle filtering half mask meet the requirements	Pass
12 (7.14)	Field of vision	—	The field of vision is acceptable if determined so in practical performance tests.	The two samples both have a wider visual field	Pass

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Test Report Form No. EN149_C Dated 2020-05

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S.No (C.No)	Test item	Unit	Technical requirements	Test result	Single item decision
13 (7.15)	Exhalation valve(s)	Visual inspection	A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	No exhalation valve(s)	N/A
			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.	No exhalation valve(s)	
		Flow conditioning	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.	No exhalation valve(s)	
		Strength of attachment of exhalation valve housing	When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.	No exhalation valve(s)	
14 (7.17)	Clogging— Breathing resistance & Penetration of filter material	—	Optional for single shift use devices, mandatory for re-usable devices. Tested by Cl. 7.17.1/2/3.	<input type="checkbox"/> Tests result refer to Table C/R/D, or <input checked="" type="checkbox"/> Tests not requested for single shift use face mask	N/A
15 (7.18)	Demountable parts	—	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.	No demountable parts	N/A

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Report No.: [2020] WSZ.FHL.NO.5329

Table A- Leakage—Total Inward Leakage

S.No (C.No)	Test item	Unit	Technical requirements ¹⁾	Test result							Single item decision
				Exercises	E1 (%)	E2 (%)	E3 (%)	E4 (%)	E5 (%)	TIL (%)	
16 (7.9.1)	Leakage— Total inward leakage	—	At least 46 out of the 50 individual exercise results shall be not greater than 11%. And in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than 8%.	A.R.	6.2	6.9	6.8	6.7	6.2	6.6	Pass
					5.8	6.5	6.2	6.2	5.8	6.1	
					6.1	7.0	7.1	7.1	6.4	6.7	
					6.2	6.5	7.0	6.6	6.2	6.5	
				T.C.	6.4	7.3	7.1	7.3	6.7	7.0	
					6.2	6.9	7.0	6.8	6.2	6.6	
					6.1	7.0	7.3	7.0	6.5	6.8	
					5.7	6.4	6.5	6.6	6.1	6.3	
6.2	6.6	6.7	6.8	6.2	6.5						

Note 1:
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
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.

Table A-1- Test subjects—Facial dimension

Test Subject No.	Length of face (mm)	Width of face (mm)	Depth of face (mm)	Width of mouth (mm)
1	120	130	109	59
2	122	140	115	65
3	119	160	139	55
4	112	122	119	63
5	110	130	118	60
6	115	119	110	59
7	112	123	113	55
8	103	130	100	50
9	118	139	130	63
10	120	135	125	50

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Table B- Breathing Resistance

S.No (C1No)	Test item	Unit	Technical requirements ⁽¹⁾	Exercises	Test result				Single item decision		
					Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side		Lying on the right side	
17 (7.16)	Breathing resistance	Inhalation 30 L/min	≤0.2	A.R.	0.5	0.6	0.6	0.6	0.6	Pass	
					0.6	0.6	0.6	0.6	0.6		
					0.6	0.5	0.6	0.6	0.6		
				S.W.	0.5	0.6	0.6	0.6	0.6		
					0.6	0.6	0.6	0.6	0.5		
					0.6	0.6	0.5	0.6	0.6		
	T.C.	0.6	0.6	0.7	0.7	0.6					
		0.7	0.6	0.6	0.7	0.7					
		2.1	2.1	2.1	2.2	2.1					
	Breathing resistance	Inhalation 95 L/min	mbar	≤2.4	A.R.	2.1	2.1	2.1	2.1	2.1	Pass
						2.0	2.1	2.1	2.1	2.1	
						2.1	2.1	2.0	2.0	2.0	
S.W.					2.1	2.1	2.1	2.1	2.1		
					2.1	2.1	2.1	2.1	2.1		
					2.1	2.0	2.1	2.1	2.1		
T.C.	2.1	2.1	2.1	2.1	2.1						
	2.0	2.1	2.1	2.1	2.1						
	2.5	2.6	2.5	2.5	2.5						
Breathing resistance	Exhalation 160 L/min	mbar	≤3.0	A.R.	2.5	2.6	2.5	2.5	2.5	Pass	
					2.6	2.6	2.5	2.5	2.5		
					2.5	2.5	2.5	2.5	2.5		
				S.W.	2.5	2.5	2.6	2.6	2.6		
					2.6	2.6	2.6	2.5	2.5		
					2.6	2.6	2.5	2.5	2.5		
T.C.	2.5	2.6	2.5	2.5	2.5						
	2.6	2.6	2.5	2.5	2.5						

Note 1: Limitation may need be changed according to classification, refer to Table 2 — Breathing resistance of EN 149:2001 +A1:2009 for the Technical requirements.

Report No.: [2020] WSZ FHL NO.5329

Table C-Clogging Test—Breathing resistance

S.No (C1No)	Test item ⁽¹⁾	Unit	Technical requirements ⁽²⁾ (mbar)	Exercises	Test result				Single item decision	
					Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side		Lying on the right side
18 (7.17)	Clogging test— Breathing resistance	Inhalation 95 L/min	mbar	—	A.R.					N/A
					T.C.					
	Exhalation 25 L/min	mbar	—	A.R.					N/A	
				T.C.						

Note 1: Valved particle filtering half masks
After clogging the inhalation resistances shall not exceed FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar at 95 L/min continuous flow;
The exhalation resistance shall not exceed 3 mbar at 160 L/min continuous flow.
Note 2: 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 95 L/min continuous flow.

Table D-Clogging Test—Penetration of filter material

S.No (C1No)	Test item	Unit	Technical requirements	Test result		Single item decision
				A.R.	T.C.	
19 (7.17)	Clogging test— Penetration of filter material	Paraffin oil	—	—		N/A
					T.C.	

Note: Maximum penetration of test aerosol test 95 L/min max. FFP1: 20%, FFP2: 6%, FFP3: 1%

Abbreviations:

A.R. As received	M.S. Mechanical strength	S.W. Simulated wearing treatment
T.C. Temperature conditioned	F.C. Flow conditioned	C.D. Cleaning and Disinfecting

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Annex A- Estimates of the uncertainty of measurement

Test item	Uncertainty
Total inward leakage	2.98%
Penetration of filter material	1.00%
Flammability	1.00%
Carbon dioxide content of the inhalation air	0.93%
Breathing resistance	1.90%

Annex B- Sample Photo



The end