

Eindbeoordelingsformulier - FFP Mondmaskers (LOT-nummers)

Datum	23-6-20.
Lotnummer	1009.
Leverancier/LCH-nummer	
Productnaam of naam fabrikant	
Productiedatum	
Type mondmasker (volgens de fabrikant)	KN95.

Q1 Particle Penetration 0,3	Percentage	Type P1/P2/P3
Masker 1	99%	99%
Masker 2	99%	99%
Masker 3	99%	99%

Q2 Fittest	Zonder clip	Met clip
Testpersoon 1	5.1.1c	
Testpersoon 2		
Testpersoon 3		
FFP2		

Q3 en Q4	+	+/-	-
Oordeel RIVM			
Oordeel AH/TOXI			

Artikelnummer VWS	Quality Check
<input type="checkbox"/> 957 (FFP1)	<input type="checkbox"/> Goedgekeurd
<input type="checkbox"/> 958 (FFP2)	<input checked="" type="checkbox"/> Afkeur
<input checked="" type="checkbox"/> 971 (KN95)	
Algemene bevindingen:	

Logistiek	Aankruisen	Classificatie	Clip (Ja/Nee)	Specs.	
				PFE	FIT
Mand 1		Goedkeur: FFP2		>94%	>100
Mand 2		Goedkeur: FFP2 met instructie over FIT		>94%	33<FIT<100
Mand 3		Afkeur: FFP1, filter van mindere kwaliteit*		80%<PFE<94%	>100
Mand 4		Afkeur: FFP1, buiten acute zorg, met instructie over FIT (Q57)		80%<PFE<94%	33<FIT<100
Mand 5	X	Afkeur: Alleen uitleveren bij hoge nood	Ja.	>94%	<33
Mand 6		Afkeur: Alleen uitleveren bij hoge nood		80%<PFE<94%	<33
Mand 7		Afkeur: Niet gebruiken		< 80	Ongeacht fit

* Ingekocht FFP1 in mand 3 boeken als goedkeur

Disclaimer: Deze rapportage bevat een onafhankelijk indicatief oordeel van de kwaliteit van de producten. Dit betekent dat deze resultaten slechts een gedeeltelijke weergave zijn van de kwaliteit van de producten. De rapportage is alleen te gebruiken door het LCH en het ministerie VWS ter ondersteuning bij het vrijgeven van producten op de markt. Gegevens uit deze rapportage mogen niet gedeeld worden met derden. Indien u niet de geadresseerde bent of dit bericht abusievelijk aan u is verzonden, wordt u verzocht dat aan de afzender te melden en de rapportage te verwijderen. Het LCH en het ministerie VWS aanvaarden geen aansprakelijkheid voor schade, van welke aard ook, die verband houdt met risico's verbonden aan het elektronisch verzenden van berichten.

Checklist prestatiecontrole adembeschermingsmaskers

Inkoopnummer		LOT-nummer	1007.
Datum uitvoering check	23-6-20		
Leveringsdatum			
Leverancier			
Productnaam of naam fabrikant	Hionacan → KN95		
Productiedatum			
Naam	5.1.2e		
Functie	5.1.2e		
Besproken met RIVM	5.1.2e		
Advies:			
Type masker bij uitgifte:	afkeur op fit.		

Werkwijze:

RIVM voert de "administratieve" controle uit met betrekking tot notified bodies, certificaten en Declarations of Conformities. De arbeidshygiënisten beoordelen opdruk binnendoos, verpakking masker op onregelmatigheden met behulp van deze checklist. Het masker zelf wordt gecontroleerd op aantal lagen, kwaliteit, bevestiging van elastieken en fit op het gezicht. Vervolgens wordt een gezamenlijk advies gegeven over onder welke categorie dit masker zal worden uitgegeven naar de ziekenhuizen.

Administratief (wordt ingevuld door RIVM)

Technical data sheet aanwezig?	<input checked="" type="checkbox"/> Ja	<input type="checkbox"/> Nee
Garantiecertificaat aanwezig?	<input checked="" type="checkbox"/> Ja	<input type="checkbox"/> Nee
Declaration of conformity aanwezig?	<input type="checkbox"/> Ja	<input checked="" type="checkbox"/> Nee
Oordeel van RIVM	Zie eerdere beoordelingen lot nr. van 5.1.2i Toelichting	

Prestatie levering

Oordeel arbeidshygiënisten	Fit = voldoende.
----------------------------	------------------

Bijzonderheden:

VERPAKKING OM HET INDIVUELE MASKER	
1	Zit er verpakking om het masker? <input checked="" type="checkbox"/> Ja <input type="checkbox"/> Nee
	Zo ja:
2	Hoe is de verpakking te openen? <input checked="" type="checkbox"/> Gemakkelijk <input type="checkbox"/> Lastig <input type="checkbox"/> Moeilijk
3	Correspondeert de verpakking met de informatie op de binnendoos? <input type="checkbox"/> Ja <input type="checkbox"/> Nee, het volgende wijkt af:

Bijzonderheden:

DE FIT VAN HET MASKER OP HET GEZICHT	
1	Hoe past het masker op het gezicht? <input type="checkbox"/> Goed <input checked="" type="checkbox"/> Ruimte bij de kin <input checked="" type="checkbox"/> Ruimte bij neusstuk na aandrukken <input type="checkbox"/> Slechte aansluiting bij wangen <input type="checkbox"/>
2	Waar ontsnapt lucht bij de leaktest <input type="checkbox"/> Niet <input checked="" type="checkbox"/> Neus <input checked="" type="checkbox"/> Kin <input type="checkbox"/> Zijkant <input type="checkbox"/> N.v.t. (Chirurgisch)
3	Kan het masker met de touwtjes en elastieken strakker op het gezicht worden getrokken? <input type="checkbox"/> Ja <input checked="" type="checkbox"/> Nee <input type="checkbox"/> N.v.t.
4	Wat gebeurt er als het gezicht beweegt? <input type="checkbox"/> Masker blijft op zijn plek <input checked="" type="checkbox"/> Masker verschuift <input type="checkbox"/>
5	Behoudt de neusklem zijn vorm gedurende circa 1 min? <input checked="" type="checkbox"/> Ja <input type="checkbox"/> Nee <input type="checkbox"/> N.v.t.
6	Chirurgisch masker: Wat is de hoogte van het masker wanneer deze uitgevouwen is?
7	Chirurgisch masker: wat is de lengte van de neusklem?

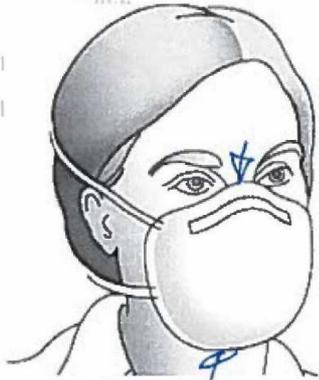
Bij een chirurgisch masker			
Doos	Materiaal neusbeugel	Breedte neusbeugel	Lengte van het uitgeklapte masker
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

Bijzonderheden:

Fittest by RIVM

Datum	23-06-2020.
LOT/X-nummer	1807 1/2

Fit factor real time test < 10	<input checked="" type="checkbox"/> Ja, test alleen met Clip	<input type="checkbox"/> Nee, test zonder en met clip of kam
--------------------------------	--	--

Tester:	Zonder clip of kam		Met clip of kam	
	Opmerkingen	Score	Opmerkingen	Score
1. 5.1.2e	doos 1. RealTime te los, verliest Fit real time	< 10	74	12,9
2.		14		12,9 74
3.		< 10		16
4.				
Algemeen: (ruim, krap, etc)				
Verschuift bij Up & Down/Bending?		JA		ja
			Is één clip voldoende?	JA
Extra opmerkingen (eventueel met pijlen waar lekkage is)				
				

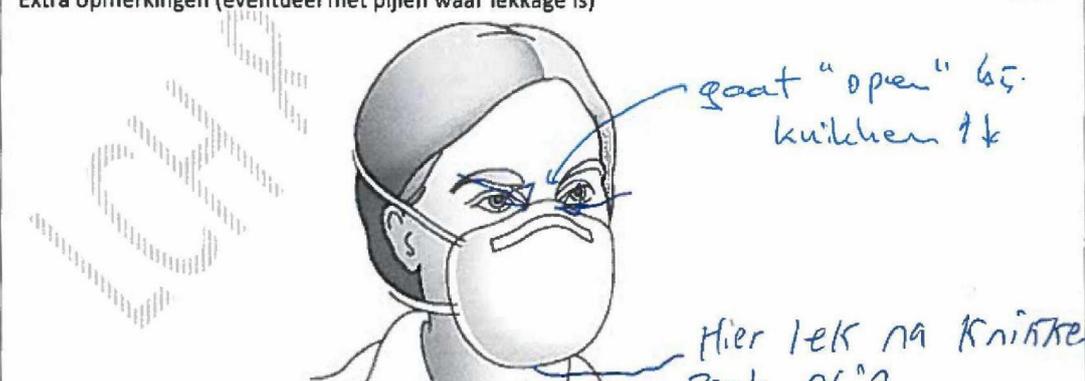
Type FFP Masker	
Fit test (FAIL of PASS)	Fail

Disclaimer: Deze rapportage bevat een onafhankelijk indicatief oordeel van de kwaliteit van de producten. Dit betekent dat deze resultaten slechts een gedeeltelijke weergave zijn van de kwaliteit van de producten. De rapportage is alleen te gebruiken door het LCH en het ministerie VWS ter ondersteuning bij het vrijgeven van producten op de markt. Gegevens uit deze rapportage mogen niet gedeeld worden met derden. Indien u niet de geadresseerde bent of dit bericht abusievelijk aan u is verzonden, wordt u verzocht dat aan de afzender te melden en de rapportage te verwijderen. Het LCH en het ministerie VWS aanvaarden geen aansprakelijkheid voor schade, van welke aard ook, die verband houdt met risico's verbonden aan het elektronisch verzenden van berichten.

Fittest by RIVM

Datum	23-6-2020
LOT/X-nummer	1807 (2/2)

Fit factor real time test < 10	<input type="checkbox"/> Ja, test alleen met Clip	<input type="checkbox"/> Nee, test zonder en met clip of kam
--------------------------------	---	--

Tester:	Zonder clip of kam		Met clip of kam	
	Opmerkingen	Score	Opmerkingen	Score
1. 	Fit verlaat snel	✓	"Fit" niet goed	24
2. 	doos 5 - RealTime + 10 TEST 5	5		24.
3. _____				
4. _____				
Algemeen: (ruim, krap, etc)				
Verschuift bij Up & Down/Bending?		JA		JA
			Is één clip voldoende?	JA-
Extra opmerkingen (eventueel met pijlen waar lekkage is)				
				

Type FFP Masker	
Fit test (FAIL of PASS)	F

Disclaimer: Deze rapportage bevat een onafhankelijk indicatief oordeel van de kwaliteit van de producten. Dit betekent dat deze resultaten slechts een gedeeltelijke weergave zijn van de kwaliteit van de producten. De rapportage is alleen te gebruiken door het LCH en het ministerie VWS ter ondersteuning bij het vrijgeven van producten op de markt. Gegevens uit deze rapportage mogen niet gedeeld worden met derden. Indien u niet de geadresseerde bent of dit bericht abusievelijk aan u is verzonden, wordt u verzocht dat aan de afzender te melden en de rapportage te verwijderen. Het LCH en het ministerie VWS aanvaarden geen aansprakelijkheid voor schade, van welke aard ook, die verband houdt met risico's verbonden aan het elektronisch verzenden van berichten.

7

Particle Penetration by Kalibra

Datum	23-06-2020
Inkoopnummer	5.1.1c
LOT/X-nummer	1807-A

Q1 Particle Penetration	Gemiddelde rendement $\geq 0,3$	Pass or Fail t.o.v. P1/P2/P3
Masker 1 Doosje 1	99%	Pass P3
Masker 2 Doosje 2	99%	Pass P3
Masker 3 Doosje 3	99%	Pass P3

Ademweerstand:

	Gemeten (< Pa)	Eis (< Pa)	Conclusie
Masker 1	89	< 240 Pa	Pass
Masker 2	111		Pass
Masker 3	75		Pass

Eindoordeel $\geq 0,3$:

Beoordeling op basis van masker met het laagste filterrendement.

- fail
 voldoet P1
 voldoet aan P2
 voldoet aan P3

Disclaimer: Deze rapportage bevat een onafhankelijk indicatief oordeel van de kwaliteit van de producten. Dit betekent dat deze resultaten slechts een gedeeltelijke weergave zijn van de kwaliteit van de producten. De rapportage is alleen te gebruiken door het LCH en het ministerie VWS ter ondersteuning bij het vrijgeven van producten op de markt. Gegevens uit deze rapportage mogen niet gedeeld worden met derden. Indien u niet de geadresseerde bent of dit bericht abusievelijk aan u is verzonden, wordt u verzocht dat aan de afzender te melden en de rapportage te verwijderen. Het LCH en het ministerie VWS aanvaarden geen aansprakelijkheid voor schade, van welke aard ook, die verband houdt met risico's verbonden aan het elektronisch verzenden van berichten.

2

Particle Penetration by Kalibra

Datum	23-06-2020
Inkoopnummer	5.1.1c
LOT/X-nummer	1807-B-

Q1 Particle Penetration	Gemiddelde rendement $\geq 0,3$	Pass or Fail t.o.v. P1/P2/P3
Masker 4 4 Ransje 4	99%	Pass P3
Masker 5 5 Ransje 5	98%	Pass P2
Masker 6 6 Ransje 6	98%	Pass P2

Ademweerstand:

	Gemeten (< Pa)	Eis (< Pa)	Conclusie
Masker 4 4	85	< 240 Pa	Pass
Masker 5 5	65		Pass
Masker 6 6	59		Pass

Eindoordeel $\geq 0,3$:
Beoordeling op basis van masker met het laagste filterrendement.
<input type="checkbox"/> fail
<input type="checkbox"/> voldoet P1
<input checked="" type="checkbox"/> voldoet aan P2
<input type="checkbox"/> voldoet aan P3

Disclaimer: Deze rapportage bevat een onafhankelijk indicatief oordeel van de kwaliteit van de producten. Dit betekent dat deze resultaten slechts een gedeeltelijke weergave zijn van de kwaliteit van de producten. De rapportage is alleen te gebruiken door het LCH en het ministerie VWS ter ondersteuning bij het vrijgeven van producten op de markt. Gegevens uit deze rapportage mogen niet gedeeld worden met derden. Indien u niet de geadresseerde bent of dit bericht abusievelijk aan u is verzonden, wordt u verzocht dat aan de afzender te melden en de rapportage te verwijderen. Het LCH en het ministerie VWS aanvaarden geen aansprakelijkheid voor schade, van welke aard ook, die verband houdt met risico's verbonden aan het elektronisch verzenden van berichten.

Inboekrapport VWS

Naam Ontvanger:

5.1.2e

Datum:

18-6-20

Aantal inkooporder/pakbon

Lotnummer

1807

Aantal pallets

Totaal stuks

Aantal samples

Totaal aantal na samples

5.1.1c

Aantal per pallet

Aantal per doos

Aantal per verpakkingseenheid

Aantal komt overeen met inkooporder/pakbon

JA / NEE

Zo niet

Telling bevestigd door

Naam:

Paraaf:

Artikelnummer:

5.1.1c

Inkooporder nummer

5.1.1c

LCH-nummer

VWS kenmerk 3057-23164-06

Kwaliteitscontrole RIVM

JA / NEE

GOEDGEKEURD / AFGEKEURD

Bijzonderheden:

Locatie:

024-109-01
024-167-01

ingeboekt door:

LETRE DE VOITURE - DOCUMENT DE TRANSPORT-VRACHTBRIEF-VERVOERSDOCUMENT-FRACHBRIEF

1 Shipper / Absender / Afzender		CMR AVC - 2002	
Globenet as agent for : 5.1.2i		NL 216910	
Heerhugowaard			
The Netherlands 5.1.1c			
2 Destinataire / Empfänger		16 Transporter	
Centraal Boekhuis		Globenet BV	
Laanakkerweg 14		Schiphol, NL	
			
3 Delivery Place, Country / Auslieferungsort		17 Following Transporters	
Vianen / 4131PB		Schiphol Express	
4 Receipts Place and Date / Ort und Tag Ubemahme			
Schiphol, 17-6-2020			
5 Documents annexes / Bijgevoegde Documenten		18 Vorbehalt und Bemerkungen des Fahrers	
MAWB nr 7R4-13216910			
6 Omschrijving		7 Aantal	8 Verpakking
MASK (220crt = 237570 MASK)			5.1.2b
VWS KENMERK: 3057-23164			5.1.1c
*** Status "C" ***			
13 Opmerkingen		19 Speciale Afzender	20 Geldsoort
DELIVERY 18JUN. I		Overeenkomst	Ontvanger
		Vrachtprijs	
		Kortingen	
		Saldo	
		Bijeenkomsten	
		Totaal:	
14 Frankeringsvoorschriften / Prescriptions: FRANCO		20 Besondere afspraken	
15 Remboursement			
21 Plaats en Datum opmaken Vrachtbrief: Schiphol, 17 JUN 2020		24 Goed Ontvangen / Plaats	
Afzender	5.1.2e	Transporter	Centraal Boekhuis BV
		S/E	Afd. Inkomende Goederen
			Getekend v
			5.1.2e
		Signature du D	

UNIVERSAL

Verify the validity with the QR



NB 2163

EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163 - PPE - 672

Respiratory protective devices, filtering half masks to protect against particles manufactured for

GILANIA SRL

Via A.Manzoni 29/a 24024 GANDINO -BG- ITALY

manufactured at

PINGXIANG HUAFU MEDICAL HEALTH MATERIALS CO.,LTD

Building 9,Zone A,Electronic Industrial Park, Anyuan City, Jiangxi, 337000, CHINA

are tested and evaluated according to

EN 149:2001 + A1:2009 Respiratory Protective Devices - Filtering Half Masks to Protect Against Particles - Requirements, Testing, Marking

Based on the type examination conducted with the evaluation of test reports, technical file according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 5, it is approved that the product meets the requirements of the regulation.

Product Definition

Brand: GILANIA Model: GIL001

Filtering half mask

Total Inwards Leakage: Class - FFP2

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with;

- Issuing an appropriate EU Declaration of Conformity according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 9.
- Ongoing successful performance in fulfilment of the requirements set out in Personal Protective Equipment Regulation (EU) 2016/425 and harmonised standards, ensured by assessments based on Annex 7 (Module C2) or Annex 8 (Module D) of the regulation no later than 1 year from the beginning of serial production

This certificate is initially issued on 09 / 05 /2020 and will be valid for 5 years, if there is no change in the relevant harmonised standard affecting the essential health and safety requirements.

CE
2163

Suat KACMAZ
UNIVERSAL CERTIFICATION
Director



TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO : 08.05.2020 / KKD-2163-672

Client: GILANIA SRL

Centre Address: Via A. Manzoni 29/a - 24024 GANDINO (BG) - ITALY

Manufacturer: PINGXIANG HUAFU MEDICAL HEALTH MATERIALS CO., LTD.

Manufacturing Address: Building 9, Zone A, Electronic Industrial park, Anyuan City, Jiangxi, 337000, CHINA

This report is to the above mentioned firm with the NATIONAL PROTECTIVE TESTING LLC firm's 25.04.2020 numbered NPT20040712685 test report and the test results which have been obtained according to the EN 149: 2001 + A1: 2009 standards of the product specified in this report, its relation was evaluated with Essential Requirements of Personal Protective Equipments and the results were found to be appropriate.

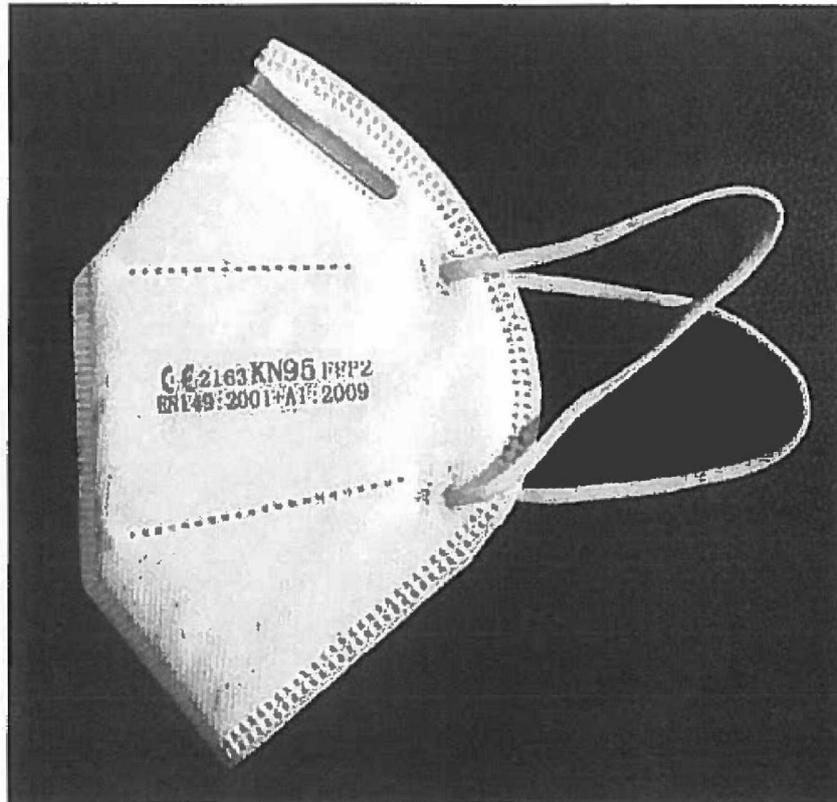
This report is an annex and an inseparable part of the EU Type Examination Certificate No. 2163 - PPE - 672 issued to the company. The test results and issued certificate belong only to the tested product. The technical report consists of a total of 7 pages.

Product Description : Particle Filtering Half Mask

Total Inward Leakage: Classification - FFP2

Trademark : GILANIA

Model : GIL001



UFR-383 12.12.2012 Rev.00

5.1.2e



**THE CLAUSES OF EN 149: 2001 + A1: 2009 STANDARD RELATED TO EUROPEAN UNION DIRECTIVE
EU 2016/425 REQUIREMENTS**

1.1. Design principles

1.1.1. Ergonomics

PPE must be so designed and manufactured that in the foreseeable conditions of use for which it is intended the user can perform the risk related activity normally whilst enjoying appropriate protection of the highest possible level.

1.1.2. Levels and classes of protection

1.1.2.1. Highest level of protection possible

The optimum level of protection to be taken into account in the design is that beyond which the constraints by the wearing of the PPE would prevent its effective use during the period of exposure to the risk or normal performance of the activity.

1.1.2.2. Classes of protection appropriate to different levels of risk

Where differing foreseeable conditions of use are such that several levels of the same risk can be distinguished, appropriate classes of protection must be taken into account in the design of the PPE.

1.2. Innocuousness of PPE

1.2.1. Absence of risks and other inherent nuisance factors

PPE must be so designed and manufactured as to preclude risks and other nuisance factors under foreseeable conditions of use.

1.2.1.1. Suitable constituent materials

The materials of which the PPE is made, including any of their possible decomposition products, must not adversely affect the health or safety of users.

1.2.1.2. Satisfactory surface condition of all PPE parts in contact with the user

Any part of the PPE that is in contact or is liable to come into contact with the user when the PPE is worn must be free of rough surfaces, sharp edges, sharp points and the like which could cause excessive irritation or injuries

1.2.1.3. Maximum permissible user impediment

Any impediment caused by PPE to movements to be made, postures to be adopted and sensory perception must be minimized; nor must PPE cause movements which endanger the user or other persons.

1.3. Comfort and effectiveness

1.3.1. Adaptation of PPE to user morphology

PPE must be designed and manufactured in such a way as to facilitate its correct positioning on the user and to remain in place for the foreseeable period of use, bearing in mind ambient factors, the actions to be carried out and the postures to be adopted. For this purpose, it must be possible to adapt the PPE to fit the morphology of the user by all appropriate means, such as adequate adjustment and attachment systems or the provision of an adequate range of sizes.

1.3.2. Lightness and design strength

PPE must be as light as possible without prejudicing design strength and efficiency.

Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3), PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use

1.4. Information supplied by the manufacturer

The notes that must be drawn up by the former and supplied when PPE is placed on the market must contain all relevant information on:

- a) In addition to the name and address of the manufacturer and/or his authorized representative established in the Community
- b) Storage, use, cleaning, maintenance, servicing and disinfection, cleaning, maintenance or disinfectant protection recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;
- c) Performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in question;
- d) Suitable PPE accessories and the characteristics of appropriate spare parts;
- e) The classes of protection appropriate to different levels of risk and the corresponding limits of use;
- f) The obsolescence deadline or period of obsolescence of PPE or certain of its components;
- g) The type of packaging suitable for transport;
- h) The significance of any markings (see 2.12)
- i) Where appropriate the references of the Directives applied in accordance with Article 5(6) (b);
- j) The name, address and identification number of the notified body involved in the design stage of the PPE

These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the member state of destination



2. ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.1. PPE incorporating adjustment systems

If PPE incorporates adjustment systems, the latter must be designed and manufactured so that, after adjustment, they do not become undone unintentionally in the foreseeable conditions of use.

2.3. PPE for the face, eyes and respiratory system

Any restriction of the user's face, eyes, field of vision or respiratory system by the PPE shall be minimised.

The screens for those types of PPE must have a degree of optical neutrality that is compatible with the degree of precision and the duration of the activities of the user.

If necessary, such PPE must be treated or provided with means to prevent misting-up.

Models of PPE intended for users requiring sight correction must be compatible with the wearing of spectacles or contact lenses.

2.4. PPE subject to ageing

If it is known that the design performance of new PPE may be significantly affected by ageing, the month and year of manufacture and/or, if possible, the month and year of obsolescence must be indelibly and unambiguously marked on each item of PPE placed on the market and on its packaging.

If the manufacturer is unable to give an undertaking with regard to the useful life of the PPE, his instructions must provide all the information necessary to enable the purchaser or user to establish a reasonable obsolescence month and year, taking into account the quality level of the model and the effective conditions of storage, use, cleaning, servicing and maintenance.

Where appreciable and rapid deterioration in PPE performance is likely to be caused by ageing resulting from the periodic use of a cleaning process recommended by the manufacturer, the latter must, if possible, affix a marking to each item of PPE placed on the market indicating the maximum number of cleaning operations that may be carried out before the equipment needs to be inspected or discarded. Where such a marking is not affixed, the manufacturer must give that information in his instructions.

2.6. PPE for use in potentially explosive atmospheres

PPE intended for use in potentially explosive atmospheres must be designed and manufactured in such a way that it cannot be the source of an electric, electrostatic or impact-induced arc or spark likely to cause an explosive mixture to ignite.

2.8. PPE for intervention in very dangerous situations

The instructions supplied by the manufacturer with PPE for intervention in very dangerous situations must include, in particular, data intended for competent, trained persons who are qualified to interpret them and ensure their application by the user.

The instructions must also describe the procedure to be adopted in order to verify that PPE is correctly adjusted and functional when worn by the user.

Where PPE incorporates an alarm which is activated in the absence of the level of protection normally provided, the alarm must be designed and placed so that it can be perceived by the user in the foreseeable conditions of use.

2.9. PPE incorporating components which can be adjusted or removed by the user

Where PPE incorporates components which can be attached, adjusted or removed by the user for replacement purposes, such components must be designed and manufactured so that they can be easily attached, adjusted and removed without tools.

2.12. PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of must preferably take the form of harmonized pictograms or ideograms and must remain perfectly legible throughout the foreseeable useful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation; in particular, where such marks incorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.

If PPE (or a PPE component) is too small to allow all or part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

3. ADDITIONAL REQUIREMENTS SPECIFIC TO PARTICULAR RISKS

3.10.2. Protection against cutaneous and ocular contact

PPE intended to prevent the surface contact of all or part of the body with substances and mixtures which are hazardous to health or with harmful biological agents must be capable of preventing the penetration or permeation of such substances and mixtures and agents through the protective integument under the foreseeable conditions of use for which the PPE is intended.

To this end, the constituent materials and other components of those types of PPE must be chosen or designed and incorporated so as to ensure, as far as possible, complete leak-tightness, which will allow where necessary prolonged daily use or, failing this, limited leak-tightness necessitating a restriction of the period of wear.

Where, by virtue of their nature and the foreseeable conditions of their use, certain substances and mixtures which are hazardous to health or harmful biological agents possess high penetrative power which limits the duration of the protection provided by the PPE in question, the latter must be subjected to standard tests with a view to their classification on the basis of their performance. PPE which is considered to be in conformity with the test specifications must bear a marking indicating, in particular, the names or, in the absence of the names, the codes of the substances used in the tests and the corresponding standard period of protection. The manufacturer's instructions must also contain, in particular, an explanation of the codes (if necessary), a detailed description of the standard tests and all appropriate information for the determination of the maximum permissible period of wear under the different foreseeable conditions of use.



Technical Assessment of EN 149: 2001 + A1: 2009 Standard and other Standards it refers to, Clauses Corresponding to the (EU) 2016/425 Directive

Conforming to EN 149:2001 + A1:2009 Standard Requirements

Article 5	Classification : Particle Filtering Half Mask Total Inward Leakage: Classification – FFP2																																																																																																																														
Article 7.4	Packing : Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to prevent mechanical damage.																																																																																																																														
Article 7.5	Material : Materials used in particle filtering half masks, according to the simulated wearing treatment and temperature conditioning reports; It is understood without handling and wear over the period for which the particle filtering half mask is designed to be used, suffered mechanical failure of the facepiece or straps, any material from the filter media released by the air flow through the filter has not constitute a hazard or nuisance for the wearer.																																																																																																																														
Article 7.6	Cleaning and Disinfection : Particle filtering half mask is not designed to be as re-usable.																																																																																																																														
Article 7.7	<p>Practical Performance :</p> <table border="1"> <thead> <tr> <th>Assessed Elements</th> <th>Positive</th> <th>Negative</th> <th>Requirements in accordance with EN 149:2001 + A1:2009 and Result</th> </tr> </thead> <tbody> <tr> <td>1.The face piece fitting</td> <td>2</td> <td>0</td> <td rowspan="6">Positive results should be obtained from the performance tests related to the implementation under test conditions. No imperfections</td> </tr> <tr> <td>2.Head harness comfort</td> <td>2</td> <td>0</td> </tr> <tr> <td>3.Security of fastenings</td> <td>2</td> <td>0</td> </tr> <tr> <td>4.Speech clearness</td> <td>2</td> <td>0</td> </tr> <tr> <td>5.Field of vision</td> <td>2</td> <td>0</td> </tr> <tr> <td>6.Materials compatibility with skin</td> <td>2</td> <td>0</td> </tr> </tbody> </table> <p>Conditioning : (A.R.) As Received, original</p>	Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result	1.The face piece fitting	2	0	Positive results should be obtained from the performance tests related to the implementation under test conditions. No imperfections	2.Head harness comfort	2	0	3.Security of fastenings	2	0	4.Speech clearness	2	0	5.Field of vision	2	0	6.Materials compatibility with skin	2	0																																																																																																							
Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result																																																																																																																												
1.The face piece fitting	2	0	Positive results should be obtained from the performance tests related to the implementation under test conditions. No imperfections																																																																																																																												
2.Head harness comfort	2	0																																																																																																																													
3.Security of fastenings	2	0																																																																																																																													
4.Speech clearness	2	0																																																																																																																													
5.Field of vision	2	0																																																																																																																													
6.Materials compatibility with skin	2	0																																																																																																																													
Article 7.8	Finish of Parts: Particle filtering half masks, which are likely to come into contact with the user, do not have sharp edges and do not contain burrs.																																																																																																																														
Article 7.9.1	<p>Total Inward Leakage:</p> <table border="1"> <thead> <tr> <th>Test Subject</th> <th>No. of sample</th> <th>Condition</th> <th>1.Walk</th> <th>Head left/right</th> <th>Head up/down</th> <th>Speech</th> <th>2. Walk</th> <th>Average</th> </tr> </thead> <tbody> <tr><td>1</td><td>32</td><td>A.R</td><td>4,85</td><td>5,58</td><td>5,83</td><td>5,64</td><td>4,83</td><td>5,35</td></tr> <tr><td>2</td><td>33</td><td>A.R</td><td>4,87</td><td>5,61</td><td>5,90</td><td>5,69</td><td>4,91</td><td>5,40</td></tr> <tr><td>3</td><td>34</td><td>A.R</td><td>4,99</td><td>5,69</td><td>5,94</td><td>5,75</td><td>4,95</td><td>5,46</td></tr> <tr><td>4</td><td>35</td><td>A.R</td><td>4,77</td><td>5,42</td><td>5,61</td><td>5,57</td><td>4,74</td><td>5,22</td></tr> <tr><td>5</td><td>36</td><td>A.R</td><td>4,81</td><td>5,49</td><td>5,73</td><td>5,66</td><td>4,80</td><td>5,30</td></tr> <tr><td>6</td><td>16</td><td>T.C.</td><td>5,35</td><td>5,63</td><td>5,49</td><td>5,61</td><td>5,32</td><td>5,48</td></tr> <tr><td>7</td><td>17</td><td>T.C.</td><td>5,29</td><td>5,33</td><td>5,30</td><td>5,27</td><td>5,27</td><td>5,33</td></tr> <tr><td>8</td><td>18</td><td>T.C.</td><td>5,41</td><td>5,61</td><td>5,56</td><td>5,58</td><td>5,38</td><td>5,51</td></tr> <tr><td>9</td><td>19</td><td>T.C.</td><td>5,32</td><td>5,52</td><td>5,33</td><td>5,35</td><td>5,29</td><td>5,36</td></tr> <tr><td>10</td><td>20</td><td>T.C.</td><td>5,20</td><td>5,45</td><td>5,24</td><td>5,30</td><td>5,14</td><td>5,27</td></tr> <tr><td>Average</td><td></td><td></td><td>5,09</td><td>5,55</td><td>5,59</td><td>5,54</td><td>5,06</td><td>5,37</td></tr> <tr><td>Min</td><td></td><td></td><td>4,77</td><td>5,42</td><td>5,24</td><td>5,27</td><td>4,74</td><td>5,22</td></tr> <tr><td>Max</td><td></td><td></td><td>5,41</td><td>5,69</td><td>5,94</td><td>5,69</td><td>5,38</td><td>5,51</td></tr> </tbody> </table> <p>Conditioning : (A.R.) As Received, original (T.C.) Temperature conditioning</p> <p>Results P (%) Leakage Value</p> <p>Results meet with FFP2 requirements</p>	Test Subject	No. of sample	Condition	1.Walk	Head left/right	Head up/down	Speech	2. Walk	Average	1	32	A.R	4,85	5,58	5,83	5,64	4,83	5,35	2	33	A.R	4,87	5,61	5,90	5,69	4,91	5,40	3	34	A.R	4,99	5,69	5,94	5,75	4,95	5,46	4	35	A.R	4,77	5,42	5,61	5,57	4,74	5,22	5	36	A.R	4,81	5,49	5,73	5,66	4,80	5,30	6	16	T.C.	5,35	5,63	5,49	5,61	5,32	5,48	7	17	T.C.	5,29	5,33	5,30	5,27	5,27	5,33	8	18	T.C.	5,41	5,61	5,56	5,58	5,38	5,51	9	19	T.C.	5,32	5,52	5,33	5,35	5,29	5,36	10	20	T.C.	5,20	5,45	5,24	5,30	5,14	5,27	Average			5,09	5,55	5,59	5,54	5,06	5,37	Min			4,77	5,42	5,24	5,27	4,74	5,22	Max			5,41	5,69	5,94	5,69	5,38	5,51
Test Subject	No. of sample	Condition	1.Walk	Head left/right	Head up/down	Speech	2. Walk	Average																																																																																																																							
1	32	A.R	4,85	5,58	5,83	5,64	4,83	5,35																																																																																																																							
2	33	A.R	4,87	5,61	5,90	5,69	4,91	5,40																																																																																																																							
3	34	A.R	4,99	5,69	5,94	5,75	4,95	5,46																																																																																																																							
4	35	A.R	4,77	5,42	5,61	5,57	4,74	5,22																																																																																																																							
5	36	A.R	4,81	5,49	5,73	5,66	4,80	5,30																																																																																																																							
6	16	T.C.	5,35	5,63	5,49	5,61	5,32	5,48																																																																																																																							
7	17	T.C.	5,29	5,33	5,30	5,27	5,27	5,33																																																																																																																							
8	18	T.C.	5,41	5,61	5,56	5,58	5,38	5,51																																																																																																																							
9	19	T.C.	5,32	5,52	5,33	5,35	5,29	5,36																																																																																																																							
10	20	T.C.	5,20	5,45	5,24	5,30	5,14	5,27																																																																																																																							
Average			5,09	5,55	5,59	5,54	5,06	5,37																																																																																																																							
Min			4,77	5,42	5,24	5,27	4,74	5,22																																																																																																																							
Max			5,41	5,69	5,94	5,69	5,38	5,51																																																																																																																							
Article 7.9.2	<p>Penetration of filter material: Sodium Chloride Testing</p> <table border="1"> <thead> <tr> <th>Condition</th> <th>No. of Sample</th> <th>Sodium Chloride Testing 95 L/min max (%)</th> <th>Requirements in accordance with EN 149:2001 + A1:2009</th> <th>Result</th> </tr> </thead> <tbody> <tr><td>(A.R.)</td><td>23</td><td>3,91</td><td rowspan="3">FFP1 ≤ 20 %</td><td rowspan="9">Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)</td></tr> <tr><td>(A.R.)</td><td>24</td><td>3,85</td></tr> <tr><td>(A.R.)</td><td>23</td><td>3,76</td></tr> <tr><td>(S.W.)</td><td>1</td><td>4,18</td><td rowspan="2">FFP2 ≤ 6 %</td></tr> <tr><td>(S.W.)</td><td>2</td><td>3,96</td></tr> <tr><td>(S.W.)</td><td>3</td><td>4,15</td><td rowspan="3">FFP3 ≤ 1 %</td></tr> <tr><td>(M.S. T.C.)</td><td>7</td><td>4,66</td></tr> <tr><td>(M.S. T.C.)</td><td>8</td><td>4,57</td></tr> <tr><td>(M.S. T.C.)</td><td>9</td><td>4,32</td><td></td></tr> </tbody> </table> <p>Conditioning : (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment</p> <p>95 L/min = 1,6 dm³/min</p>	Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result	(A.R.)	23	3,91	FFP1 ≤ 20 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)	(A.R.)	24	3,85	(A.R.)	23	3,76	(S.W.)	1	4,18	FFP2 ≤ 6 %	(S.W.)	2	3,96	(S.W.)	3	4,15	FFP3 ≤ 1 %	(M.S. T.C.)	7	4,66	(M.S. T.C.)	8	4,57	(M.S. T.C.)	9	4,32																																																																																										
Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result																																																																																																																											
(A.R.)	23	3,91	FFP1 ≤ 20 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)																																																																																																																											
(A.R.)	24	3,85																																																																																																																													
(A.R.)	23	3,76																																																																																																																													
(S.W.)	1	4,18	FFP2 ≤ 6 %																																																																																																																												
(S.W.)	2	3,96																																																																																																																													
(S.W.)	3	4,15	FFP3 ≤ 1 %																																																																																																																												
(M.S. T.C.)	7	4,66																																																																																																																													
(M.S. T.C.)	8	4,57																																																																																																																													
(M.S. T.C.)	9	4,32																																																																																																																													



Article	Penetration of filter material : Paraffin Oil Testing							
	Condition	No. of Sample	Paraffin Oil Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result			
7.9.2	(A.R.)	26	4,07	FFP1 ≤ 30 %	Filtering half masks fulfill the requirements of the standard EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)			
	(A.R.)	27	4,18					
	(A.R.)	28	4,13					
	(S.W.)	4	3,95	FFP2 ≤ 6 %				
	(S.W.)	5	3,88					
	(S.W.)	6	3,86	FFP3 ≤ 1 %				
	(M.S. T.C.)	10	4,05					
(M.S. T.C.)	11	4,17						
(M.S. T.C.)	12	3,98						
Conditioning : (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment								
7.10	Compatibility with skin: In Practical Performance report, the likelihood of mask materials in contact with the skin causing irritation or other adverse effect on health was not reported.							
7.11	Flammability :							
	Condition	No. of Sample	Visual inspection	Requirements in accordance with EN 149:2001 + A1:2009	Result			
	(A.R.)	32	1,1	Filtering half mask shall not burn or not continue to burn for more than 5 s after removal from the flame	Passed Filtering half masks fulfill requirements of the standard			
	(A.R.)	33	1,3					
	(T.C.)	21	1,2					
(T.C.)	22	1,1						
(T.C.)	22	1,1						
Conditioning : (A.R.) As Received, original (T.C.) Temperature Conditioning								
7.12	Carbon dioxide content of the inhalation air:							
	Condition	No. of Sample	CO ₂ content of the inhalation air [%] by volume	An average CO ₂ content of the inhalation air	Requirements in accordance with EN 149:2001 + A1:2009	Result		
	(A.R.)	41	0,82	0,86	CO ₂ content of the inhalation air shall not exceed an average of 1,0% by volume	Passed Filtering half masks fulfill requirements of the standard		
	(A.R.)	42	0,86					
	(A.R.)	43	0,89					
Conditioning : (A.R.) As Received, original								
7.13	Head harness: In Practical Performance report, No adverse effects have been reported for holding the mask of the head harness firmly in position, for total inward leakage properties.							
7.14	Field of vision : In Practical Performance report, No adverse effects were reported for the field of vision features.							
7.16	Breathing Resistance: Inhalation							
	Condition	No. of Sample	Inhalation Resistance (mbar)				Result	
			Flow Rate 30 L/min	Requirements in accordance with EN 149:2001 + A1:2009	Flow Rate 95 L/min	Requirements in accordance with EN 149:2001 + A1:2009		
	(A.R.)	29	0,4	FFP1 ≤ 0,6	1,3	FFP1 ≤ 2,1	Passed	
	(A.R.)	30	0,5		1,2			
	(A.R.)	31	0,5		1,4			
	(S.W.)	1	0,5	FFP2 ≤ 0,7	1,4	FFP2 ≤ 2,4		
	(S.W.)	2	0,5		1,3			
	(S.W.)	3	0,6	FFP3 ≤ 1,0	1,4	FFP3 ≤ 3,0		
	(T.C.)	13	0,6		1,4			
	(T.C.)	14	0,5		1,4			
	(T.C.)	15	0,5		1,3			
	Conditioning : (A.R.) As Received, original (S.W.) Simulated wearing treatment (T.C.) Temperature Conditioning							



Breathing Resistance : Exhalation					
Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Exhalation Resistance	
				Requirements in accordance with EN 149:2001 + A1:2009	Result
Article 7.16 (A.R.)	29	Facing directly	2,0	FFP1 ≤ 3	Passed
		Facing vertically upwards	2,0		
		Facing vertically downwards	2,0		
		Lying on the left side	2,0		
		Lying on the right side	2,0		
(A.R.)	30	Facing directly	2,0	FFP2 ≤ 3	
		Facing vertically upwards	2,1		
		Facing vertically downwards	2,1		
		Lying on the left side	2,1		
		Lying on the right side	2,0		
Conditioning : (A.R.) As Received, original					
Breathing Resistance : Exhalation					
Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Exhalation Resistance	
				Requirements in accordance with EN 149:2001 + A1:2009	Result
Article 7.16 (A.R.)	31	Facing directly	2,2	FFP1 ≤ 3	Passed
		Facing vertically upwards	2,1		
		Facing vertically downwards	2,0		
		Lying on the left side	2,2		
		Lying on the right side	2,0		
(S.W.)	1	Facing directly	2,2	FFP2 ≤ 3	
		Facing vertically upwards	2,2		
		Facing vertically downwards	2,2		
		Lying on the left side	2,2		
		Lying on the right side	2,0		
Conditioning : (A.R.) As Received, original (S.W.) Simulated wearing treatment					
Breathing Resistance : Exhalation					
Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Exhalation Resistance	
				Requirements in accordance with EN 149:2001 + A1:2009	Result
Article 7.16 (S.W.)	2	Facing directly	2,0	FFP1 ≤ 3	Passed
		Facing vertically upwards	2,2		
		Facing vertically downwards	2,2		
		Lying on the left side	2,2		
		Lying on the right side	2,0		
(S.W.)	3	Facing directly	2,0	FFP2 ≤ 3	
		Facing vertically upwards	2,3		
		Facing vertically downwards	2,3		
		Lying on the left side	2,1		
		Lying on the right side	2,2		
Conditioning : (S.W.) Simulated wearing treatment					



UNIVERSAL

Breathing Resistance : Evaluation

CERTIFICATION

Condition	No. of Sample	The dummy head position	Flow Rate 160 l/min	Exhalation Resistance	
				Requirements in accordance with EN 149,2001 + A1:2009	Result
(T.C.)	13	Facing directly	2,1	FFP1 ≤ 3	Passed
		Facing vertically upwards	2,1		
		Facing vertically downwards	2,0		
		Lying on the left side	2,0		
		Lying on the right side	2,0		
(T.C.)	14	Facing directly	2,0	FFP3 ≤ 3	
		Facing vertically upwards	2,1		
		Facing vertically downwards	2,1		
		Lying on the left side	2,2		
		Lying on the right side	2,2		

Conditioning : (T.C.) Temperature Conditioning

Condition	No. of Sample	The dummy head position	Flow Rate 160 l/min	Exhalation Resistance	
				Requirements in accordance with EN 149,2001 + A1:2009	Result
(T.C.)	15	Facing directly	2,0	FFP1 ≤ 3	Passed
		Facing vertically upwards	2,1		
		Facing vertically downwards	2,0		
		Lying on the left side	2,0		
		Lying on the right side	2,0		

Conditioning : (T.C.) Temperature Conditioning

Article 7.17.2 Clogging : This test is not applied to Particle Filtering Half Mask which is not reusable.
(For single shift use devices, the clogging test is optional test. For re-usable devices test is mandatory.)

Article 7.17.3 Penetration of filter material: This test is not applied to Particle Filtering Half Mask which is not reusable.

Article 7.18 Demountable Parts: There are no demountable parts on the product.

Article 9 Marking – Packaging: Necessary markings are available on the product and its packaging.

Article 10 Information to be supplied by the manufacturer: In each of the smallest commercially available packaging of the product, implementation (installation instruction) pre-use controls, warning and usage limitations, storage and meanings of symbols / pictograms are defined.

PREPARED BY	APPROVED BY
5.1.2e	5.1.2e

LETTRE DE VOITURE - DOCUMENT DE TRANSPORT-VRACHTBRIEF-VERVOERSDOCUMENT-FRACHBRIEF

1 Shipper / Absender / Afzender Globenet as agent for : 5.1.2i Heerhugowaard The Netherlands 5.1.1c		CMR AVC - 2002 NL 788412	
2 Destinataire / Empfänger Centraal Boekhuis Laanakerweg 14		16 Transporter Globenet BV Schiphol, NL 	
3 Delivery Place, Country / Auslieferungsort Vianen / 41?		17 Following Transporters Schiphol Express	
4 Recipient and Date / Ort und Tag Übernahme Schiphol 17-6-2020		18 Vorbehalt und Bemerkungen des Fahrers	
5 Documents annexes / Bijgevoegde Documenten 5.1.1c			
6 Omschrijving	7 Aantal	8 Verpakking	9 Soort
5.1.1c		5.1.2b	5.1.2e
VWS KENMERK: 3057-23164			
*** Status "C" ****			
13 Opmerkingen DELIVERY 18JUN. !		19 Speciale Afzender Overeenkomst	Geldsoort Ontvanger
		Vrachtprijs	
		Kortingen	
		Saldo	
		Bijeenkomsten	
		Totaal:	
14 Frankeringsvoorschriften / Prescriptions: FRANCO		20 Besondere afspraken	
15 Remboursement			
21 Plaats en Datum opmaken Vrachtbrief: Schiphol, 17 JUN 2020		24 Goed Ontvangen / Plaats	
Afzender 5.1.2e	Transporter S/E	Date Place Centraal Boekhuis BV Afd. Inkomende Getekend v	5.1.2e
		Signature du	

UNIVERSAL

Verify the validity with the QR



NB 2163

EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163 - PPE - 672

Respiratory protective devices, filtering half masks to protect against particles manufactured for

GILANIA SRL

Via A.Manzoni 29/a 24024 GANDINO -BG- ITALY

manufactured at

PINGXIANG HUAFU MEDICAL HEALTH MATERIALS CO.,LTD

Building 9,Zone A,Electronic Industrial Park, Anyuan City, Jiangxi, 337000, CHINA

are tested and evaluated according to

EN 149:2001 + A1:2009 Respiratory Protective Devices - Filtering Half Masks to Protect Against Particles - Requirements, Testing, Marking

Based on the type examination conducted with the evaluation of test reports, technical file according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 5, it is approved that the product meets the requirements of the regulation.

Product Definition

Brand: GILANIA Model: GIL001

Filtering half mask

Total Inwards Leakage: Class – FFP2

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with;

- Issuing an appropriate EU Declaration of Conformity according to **Personal Protective Equipment Regulation (EU) 2016/425 Annex 9.**
- Ongoing successful performance in fulfilment of the requirements set out in **Personal Protective Equipment Regulation (EU) 2016/425** and harmonised standards, ensured by assessments based on **Annex 7 (Module C2)** or **Annex 8 (Module D)** of the regulation no later than 1 year from the beginning of serial production

This certificate is initially issued on **09 / 05 /2020** and will be valid for 5 years, if there is no change in the relevant harmonised standard affecting the essential health and safety requirements.



Suat KACMAZ
UNIVERSAL CERTIFICATION
Director



TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO : 08.05.2020 / KKD-2163-672

Client: GILANIA SRL

Centre Address: Via A. Manzoni 29/a - 24024 GANDINO (BG) - ITALY

Manufacturer: PINGXIANG HUAFU MEDICAL HEALTH MATERIALS CO., LTD.

Manufacturing Address: Building 9, Zone A, Electronic industrial park, Anyuan City, Jiangxi, 337000, CHINA

This report is to the above mentioned firm with the NATIONAL PROTECTIVE TESTING L.L.C firm's 25.04.2020 numbered NPT20040712685 test report and the test results which have been obtained according to the EN 149: 2001 + A1: 2009 standards of the product specified in this report, its relation was evaluated with Essential Requirements of Personal Protective Equipments and the results were found to be appropriate.

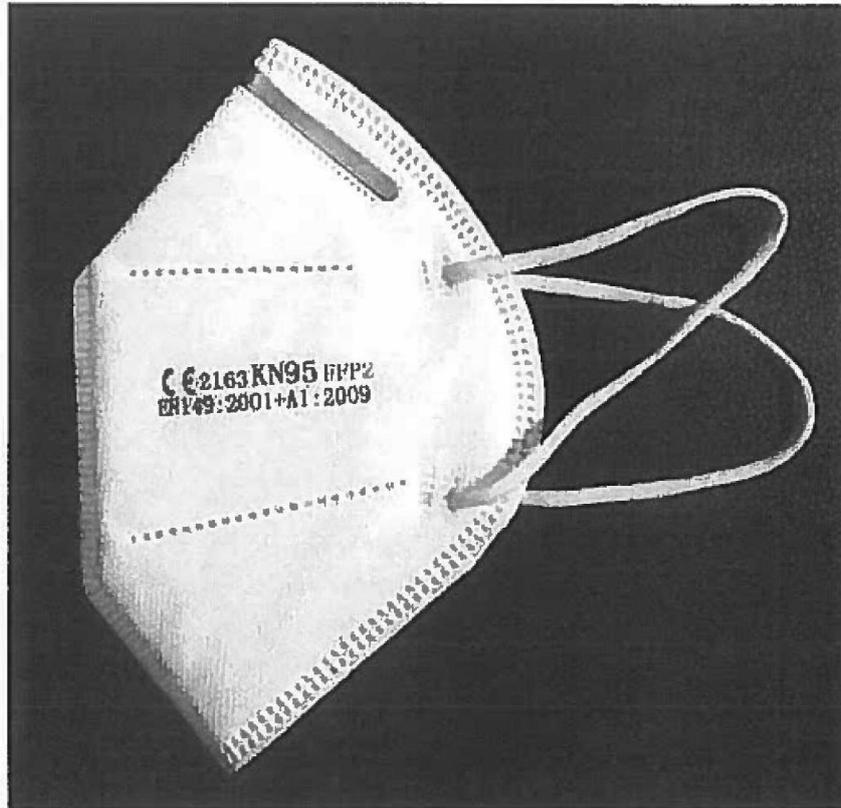
This report is an annex and an inseparable part of the EU Type Examination Certificate No. 2163 - PPE - 672 issued to the company. The test results and issued certificate belong only to the tested product. The technical report consists of a total of 7 pages.

Product Description : Particle Filtering Half Mask

Total Inward Leakage: Classification - FFP2

Trademark : GILANIA

Model : GH.001



5.1.2e

UFR-383 12.12.2012 Rev.00



**THE CLAUSES OF EN 149: 2001 + A1: 2009 STANDARD RELATED TO EUROPEAN UNION DIRECTIVE
EU 2016/425 REQUIREMENTS**

1.1. Design principles

1.1.1. Ergonomics

PPE must be so designed and manufactured that in the foreseeable conditions of use for which it is intended the user can perform the risk related activity normally whilst enjoying appropriate protection of the highest possible level.

1.1.2. Levels and classes of protection

1.1.2.1. Highest level of protection possible

The optimum level of protection to be taken into account in the design is that beyond which the constraints by the wearing of the PPE would prevent its effective use during the period of exposure to the risk or normal performance of the activity.

1.1.2.2. Classes of protection appropriate to different levels of risk

Where differing foreseeable conditions of use are such that several levels of the same risk can be distinguished, appropriate classes of protection must be taken into account in the design of the PPE.

1.2. Innocuousness of PPE

1.2.1. Absence of risks and other inherent nuisance factors

PPE must be so designed and manufactured as to preclude risks and other nuisance factors under foreseeable conditions of use.

1.2.1.1. Suitable constituent materials

The materials of which the PPE is made, including any of their possible decomposition products, must not adversely affect the health or safety of users.

1.2.1.2. Satisfactory surface condition of all PPE parts in contact with the user

Any part of the PPE that is in contact or is liable to come into contact with the user when the PPE is worn must be free of rough surfaces, sharp edges, sharp points and the like which could cause excessive irritation or injuries

1.2.1.3. Maximum permissible user impediment

Any impediment caused by PPE to movements to be made, postures to be adopted and sensory perception must be minimized; nor must PPE cause movements which endanger the user or other persons.

1.3. Comfort and effectiveness

1.3.1. Adaptation of PPE to user morphology

PPE must be designed and manufactured in such a way as to facilitate its correct positioning on the user and to remain in place for the foreseeable period of use, bearing in mind ambient factors, the actions to be carried out and the postures to be adopted. For this purpose, it must be possible to adapt the PPE to fit the morphology of the user by all appropriate means, such as adequate adjustment and attachment systems or the provision of an adequate range of sizes.

1.3.2. Lightness and design strength

PPE must be as light as possible without prejudicing design strength and efficiency.

Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3), PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use

1.4. Information supplied by the manufacturer

The notes that must be drawn up by the former and supplied when PPE is placed on the market must contain all relevant information on:

- a) In addition to the name and address of the manufacturer and/or his authorized representative established in the Community
- b) Storage, use, cleaning, maintenance, servicing and disinfection, cleaning, maintenance or disinfectant protection recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;
- c) Performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in question;
- d) Suitable PPE accessories and the characteristics of appropriate spare parts;
- e) The classes of protection appropriate to different levels of risk and the corresponding limits of use;
- f) The obsolescence deadline or period of obsolescence of PPE or certain of its components;
- g) The type of packaging suitable for transport;
- h) The significance of any markings (see 2.12)
- i) Where appropriate the references of the Directives applied in accordance with Article 5(6) (b);
- j) The name, address and identification number of the notified body involved in the design stage of the PPE

These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the member state of destination



2. ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.1. PPE incorporating adjustment systems

If PPE incorporates adjustment systems, the latter must be designed and manufactured so that, after adjustment, they do not become undone unintentionally in the foreseeable conditions of use.

2.3. PPE for the face, eyes and respiratory system

Any restriction of the user's face, eyes, field of vision or respiratory system by the PPE shall be minimised.

The screens for those types of PPE must have a degree of optical neutrality that is compatible with the degree of precision and the duration of the activities of the user.

If necessary, such PPE must be treated or provided with means to prevent misting-up.

Models of PPE intended for users requiring sight correction must be compatible with the wearing of spectacles or contact lenses.

2.4. PPE subject to ageing

If it is known that the design performance of new PPE may be significantly affected by ageing, the month and year of manufacture and/or, if possible, the month and year of obsolescence must be indelibly and unambiguously marked on each item of PPE placed on the market and on its packaging.

If the manufacturer is unable to give an undertaking with regard to the useful life of the PPE, his instructions must provide all the information necessary to enable the purchaser or user to establish a reasonable obsolescence month and year, taking into account the quality level of the model and the effective conditions of storage, use, cleaning, servicing and maintenance.

Where appreciable and rapid deterioration in PPE performance is likely to be caused by ageing resulting from the periodic use of a cleaning process recommended by the manufacturer, the latter must, if possible, affix a marking to each item of PPE placed on the market indicating the maximum number of cleaning operations that may be carried out before the equipment needs to be inspected or discarded. Where such a marking is not affixed, the manufacturer must give that information in his instructions.

2.6. PPE for use in potentially explosive atmospheres

PPE intended for use in potentially explosive atmospheres must be designed and manufactured in such a way that it cannot be the source of an electric, electrostatic or impact-induced arc or spark likely to cause an explosive mixture to ignite.

2.8. PPE for intervention in very dangerous situations

The instructions supplied by the manufacturer with PPE for intervention in very dangerous situations must include, in particular, data intended for competent, trained persons who are qualified to interpret them and ensure their application by the user.

The instructions must also describe the procedure to be adopted in order to verify that PPE is correctly adjusted and functional when worn by the user.

Where PPE incorporates an alarm which is activated in the absence of the level of protection normally provided, the alarm must be designed and placed so that it can be perceived by the user in the foreseeable conditions of use.

2.9. PPE incorporating components which can be adjusted or removed by the user

Where PPE incorporates components which can be attached, adjusted or removed by the user for replacement purposes, such components must be designed and manufactured so that they can be easily attached, adjusted and removed without tools.

2.12. PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of must preferably take the form of harmonized pictograms or ideograms and must remain perfectly legible throughout the foreseeable useful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation; in particular, where such marks incorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.

If PPE (or a PPE component) is too small to allow all or part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

3. ADDITIONAL REQUIREMENTS SPECIFIC TO PARTICULAR RISKS

3.10.2. Protection against cutaneous and ocular contact

PPE intended to prevent the surface contact of all or part of the body with substances and mixtures which are hazardous to health or with harmful biological agents must be capable of preventing the penetration or permeation of such substances and mixtures and agents through the protective integument under the foreseeable conditions of use for which the PPE is intended.

To this end, the constituent materials and other components of those types of PPE must be chosen or designed and incorporated so as to ensure, as far as possible, complete leak-tightness, which will allow where necessary prolonged daily use or, failing this, limited leak-tightness necessitating a restriction of the period of wear.

Where, by virtue of their nature and the foreseeable conditions of their use, certain substances and mixtures which are hazardous to health or harmful biological agents possess high penetrative power which limits the duration of the protection provided by the PPE in question, the latter must be subjected to standard tests with a view to their classification on the basis of their performance. PPE which is considered to be in conformity with the test specifications must bear a marking indicating, in particular, the names or, in the absence of the names, the codes of the substances used in the tests and the corresponding standard period of protection. The manufacturer's instructions must also contain, in particular, an explanation of the codes (if necessary), a detailed description of the standard tests and all appropriate information for the determination of the maximum permissible period of wear under the different foreseeable conditions of use.



Technical Assessment of EN 149: 2001 + A1: 2009 Standard and other Standards it refers to. Clauses Corresponding to the (EU) 2016/425 Directive

Conforming to EN 149:2001 + A1:2009 Standard Requirements

Article 5	Classification : Particle Filtering Half Mask Total Inward Leakage: Classification – FFP2																																																																																																																														
Article 7.4	Packing : Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to prevent mechanical damage.																																																																																																																														
Article 7.5	Material : Materials used in particle filtering half masks, according to the simulated wearing treatment and temperature conditioning reports; It is understood withstand handling and wear over the period for which the particle filtering half mask is designed to be used, suffered mechanical failure of the facepiece or straps, any material from the filter media released by the air flow through the filter has not constitute a hazard or nuisance for the wearer.																																																																																																																														
Article 7.6	Cleaning and Disinfection : Particle filtering half mask is not designed to be re-usable.																																																																																																																														
Article 7.7	<p>Practical Performance :</p> <table border="1"> <thead> <tr> <th>Assessed Elements</th> <th>Positive</th> <th>Negative</th> <th>Requirements in accordance with EN 149:2001 + A1:2009 and Result</th> </tr> </thead> <tbody> <tr> <td>1.The face piece fitting</td> <td>2</td> <td>0</td> <td rowspan="6">Positive results should be obtained from the performance tests related to the implementation under real conditions. No imperfections</td> </tr> <tr> <td>2.Head harness comfort</td> <td>2</td> <td>0</td> </tr> <tr> <td>3.Security of fastenings</td> <td>2</td> <td>0</td> </tr> <tr> <td>4.Speech clearness</td> <td>2</td> <td>0</td> </tr> <tr> <td>5.Field of vision</td> <td>2</td> <td>0</td> </tr> <tr> <td>6.Materials compatibility with skin</td> <td>2</td> <td>0</td> </tr> </tbody> </table> <p>Conditioning : (A.R.) As Received, original</p>	Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result	1.The face piece fitting	2	0	Positive results should be obtained from the performance tests related to the implementation under real conditions. No imperfections	2.Head harness comfort	2	0	3.Security of fastenings	2	0	4.Speech clearness	2	0	5.Field of vision	2	0	6.Materials compatibility with skin	2	0																																																																																																							
Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result																																																																																																																												
1.The face piece fitting	2	0	Positive results should be obtained from the performance tests related to the implementation under real conditions. No imperfections																																																																																																																												
2.Head harness comfort	2	0																																																																																																																													
3.Security of fastenings	2	0																																																																																																																													
4.Speech clearness	2	0																																																																																																																													
5.Field of vision	2	0																																																																																																																													
6.Materials compatibility with skin	2	0																																																																																																																													
Article 7.8	Finish of Parts: Particle filtering half masks, which are likely to come into contact with the user, do not have sharp edges and do not contain burrs.																																																																																																																														
Article 7.9.1	<p>Total Inward Leakage:</p> <table border="1"> <thead> <tr> <th>Test Subject</th> <th>No. of sample</th> <th>Condition</th> <th>1. Walk</th> <th>Head left/right</th> <th>Head up/down</th> <th>Speech</th> <th>2. Walk</th> <th>Average</th> </tr> </thead> <tbody> <tr><td>1</td><td>32</td><td>A.R.</td><td>4,85</td><td>5,58</td><td>5,83</td><td>5,64</td><td>4,83</td><td>5,35</td></tr> <tr><td>2</td><td>33</td><td>A.R.</td><td>4,87</td><td>5,61</td><td>5,90</td><td>5,69</td><td>4,91</td><td>5,40</td></tr> <tr><td>3</td><td>34</td><td>A.R.</td><td>4,99</td><td>5,69</td><td>5,94</td><td>5,75</td><td>4,95</td><td>5,46</td></tr> <tr><td>4</td><td>35</td><td>A.R.</td><td>4,77</td><td>5,42</td><td>5,61</td><td>5,37</td><td>4,74</td><td>5,22</td></tr> <tr><td>5</td><td>36</td><td>A.R.</td><td>4,81</td><td>5,49</td><td>5,73</td><td>5,66</td><td>4,80</td><td>5,30</td></tr> <tr><td>6</td><td>16</td><td>T.C.</td><td>5,35</td><td>5,63</td><td>5,49</td><td>5,61</td><td>5,32</td><td>5,48</td></tr> <tr><td>7</td><td>17</td><td>T.C.</td><td>5,29</td><td>5,53</td><td>5,30</td><td>5,27</td><td>5,27</td><td>5,33</td></tr> <tr><td>8</td><td>18</td><td>T.C.</td><td>5,41</td><td>5,61</td><td>5,56</td><td>5,58</td><td>5,38</td><td>5,51</td></tr> <tr><td>9</td><td>19</td><td>T.C.</td><td>5,32</td><td>5,52</td><td>5,33</td><td>5,35</td><td>5,29</td><td>5,36</td></tr> <tr><td>10</td><td>20</td><td>T.C.</td><td>5,20</td><td>5,45</td><td>5,24</td><td>5,30</td><td>5,14</td><td>5,27</td></tr> <tr><td>Average</td><td></td><td></td><td>5,09</td><td>5,55</td><td>5,59</td><td>5,54</td><td>5,06</td><td>5,37</td></tr> <tr><td>Min</td><td></td><td></td><td>4,77</td><td>5,42</td><td>5,24</td><td>5,27</td><td>4,74</td><td>5,22</td></tr> <tr><td>Max</td><td></td><td></td><td>5,41</td><td>5,69</td><td>5,94</td><td>5,69</td><td>5,38</td><td>5,51</td></tr> </tbody> </table> <p>Conditioning : (A.R.) As Received, original (T.C.) Temperature conditioning</p> <p>Results P (%) Leakage Value</p> <p>Results meet with FFP2 requirements</p>	Test Subject	No. of sample	Condition	1. Walk	Head left/right	Head up/down	Speech	2. Walk	Average	1	32	A.R.	4,85	5,58	5,83	5,64	4,83	5,35	2	33	A.R.	4,87	5,61	5,90	5,69	4,91	5,40	3	34	A.R.	4,99	5,69	5,94	5,75	4,95	5,46	4	35	A.R.	4,77	5,42	5,61	5,37	4,74	5,22	5	36	A.R.	4,81	5,49	5,73	5,66	4,80	5,30	6	16	T.C.	5,35	5,63	5,49	5,61	5,32	5,48	7	17	T.C.	5,29	5,53	5,30	5,27	5,27	5,33	8	18	T.C.	5,41	5,61	5,56	5,58	5,38	5,51	9	19	T.C.	5,32	5,52	5,33	5,35	5,29	5,36	10	20	T.C.	5,20	5,45	5,24	5,30	5,14	5,27	Average			5,09	5,55	5,59	5,54	5,06	5,37	Min			4,77	5,42	5,24	5,27	4,74	5,22	Max			5,41	5,69	5,94	5,69	5,38	5,51
Test Subject	No. of sample	Condition	1. Walk	Head left/right	Head up/down	Speech	2. Walk	Average																																																																																																																							
1	32	A.R.	4,85	5,58	5,83	5,64	4,83	5,35																																																																																																																							
2	33	A.R.	4,87	5,61	5,90	5,69	4,91	5,40																																																																																																																							
3	34	A.R.	4,99	5,69	5,94	5,75	4,95	5,46																																																																																																																							
4	35	A.R.	4,77	5,42	5,61	5,37	4,74	5,22																																																																																																																							
5	36	A.R.	4,81	5,49	5,73	5,66	4,80	5,30																																																																																																																							
6	16	T.C.	5,35	5,63	5,49	5,61	5,32	5,48																																																																																																																							
7	17	T.C.	5,29	5,53	5,30	5,27	5,27	5,33																																																																																																																							
8	18	T.C.	5,41	5,61	5,56	5,58	5,38	5,51																																																																																																																							
9	19	T.C.	5,32	5,52	5,33	5,35	5,29	5,36																																																																																																																							
10	20	T.C.	5,20	5,45	5,24	5,30	5,14	5,27																																																																																																																							
Average			5,09	5,55	5,59	5,54	5,06	5,37																																																																																																																							
Min			4,77	5,42	5,24	5,27	4,74	5,22																																																																																																																							
Max			5,41	5,69	5,94	5,69	5,38	5,51																																																																																																																							
Article 7.9.2	<p>Penetration of filter material: Sodium Chloride Testing</p> <table border="1"> <thead> <tr> <th>Condition</th> <th>No. of Sample</th> <th>Sodium Chloride Testing 95 L/min max (%)</th> <th>Requirements in accordance with EN 149:2001 + A1:2009</th> <th>Result</th> </tr> </thead> <tbody> <tr><td>(A.R.)</td><td>23</td><td>3,91</td><td rowspan="3">FFP1 ≤ 20 %</td><td rowspan="9">Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)</td></tr> <tr><td>(A.R.)</td><td>24</td><td>3,85</td></tr> <tr><td>(A.R.)</td><td>25</td><td>3,76</td></tr> <tr><td>(S.W.)</td><td>1</td><td>4,18</td><td rowspan="2">FFP2 ≤ 6 %</td></tr> <tr><td>(S.W.)</td><td>2</td><td>3,96</td></tr> <tr><td>(S.W.)</td><td>3</td><td>4,15</td><td rowspan="3">FFP3 ≤ 1 %</td></tr> <tr><td>(M.S. T.C.)</td><td>7</td><td>4,66</td></tr> <tr><td>(M.S. T.C.)</td><td>8</td><td>4,37</td></tr> <tr><td>(M.S. T.C.)</td><td>9</td><td>4,32</td><td></td></tr> </tbody> </table> <p>Conditioning : (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment</p> <p>95 L/min = 1,6 dm³/sn</p>	Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result	(A.R.)	23	3,91	FFP1 ≤ 20 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)	(A.R.)	24	3,85	(A.R.)	25	3,76	(S.W.)	1	4,18	FFP2 ≤ 6 %	(S.W.)	2	3,96	(S.W.)	3	4,15	FFP3 ≤ 1 %	(M.S. T.C.)	7	4,66	(M.S. T.C.)	8	4,37	(M.S. T.C.)	9	4,32																																																																																										
Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result																																																																																																																											
(A.R.)	23	3,91	FFP1 ≤ 20 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)																																																																																																																											
(A.R.)	24	3,85																																																																																																																													
(A.R.)	25	3,76																																																																																																																													
(S.W.)	1	4,18	FFP2 ≤ 6 %																																																																																																																												
(S.W.)	2	3,96																																																																																																																													
(S.W.)	3	4,15	FFP3 ≤ 1 %																																																																																																																												
(M.S. T.C.)	7	4,66																																																																																																																													
(M.S. T.C.)	8	4,37																																																																																																																													
(M.S. T.C.)	9	4,32																																																																																																																													



Article	Penetration of filter material : Paraffin Oil Testing						
	Condition	No. of Sample	Paraffin Oil Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result		
7.9.2	(A.R.)	26	4,07	FFP1 ≤ 20 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)		
	(A.R.)	27	4,18				
	(A.R.)	28	4,13				
	(S.W.)	4	3,95	FFP2 ≤ 6 %			
	(S.W.)	5	3,88				
	(S.W.)	6	3,86	FFP3 ≤ 1 %			
	(M.S. T.C.)	10	4,05				
(M.S. T.C.)	11	4,17					
(M.S. T.C.)	12	3,98					
Conditioning : (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment							
Article 7.10	Compatibility with skin: In Practical Performance report, the likelihood of mask materials in contact with the skin causing irritation or other adverse effect on health was not reported.						
Article 7.11	Flammability :						
	Condition	No. of Sample	Visual inspection	Requirements in accordance with EN 149:2001 + A1:2009	Result		
	(A.R.)	32	1,4	Filtering half mask shall not burn or not continue to burn for more than 5 s after removal from the flame	Passed Filtering half masks fulfill requirements of the standard		
	(A.R.)	33	1,3				
	(T.C.)	21	1,2				
(T.C.)	22	1,1					
(T.C.)	22	1,1					
Conditioning : (A.R.) As Received, original (T.C.) Temperature Conditioning							
Article 7.12	Carbon dioxide content of the inhalation air:						
	Condition	No. of Sample	CO ₂ content of the inhalation air [%] by volume	An average CO ₂ content of the inhalation air	Requirements in accordance with EN 149:2001 + A1:2009	Result	
	(A.R.)	41	0,82	0,86	CO ₂ content of the inhalation air shall not exceed an average of 1,0% by volume	Passed Filtering half masks fulfill requirements of the standard	
	(A.R.)	42	0,86				
(A.R.)	43	0,89					
(A.R.)	43	0,89					
Conditioning : (A.R.) As Received, original							
Article 7.13	Head harness: In Practical Performance report, No adverse effects have been reported for holding the mask of the head harness firmly in position, for total inward leakage properties.						
Article 7.14	Field of vision : In Practical Performance report, No adverse effects were reported for the field of vision features.						
Article 7.16	Breathing Resistance: Inhalation						
	Condition	No. of Sample	Inhalation Resistance (mbar)			Requirements in accordance with EN 149:2001 + A1:2009	Result
			Flow Rate 30 L/min	Flow Rate 95 L/min	Requirements in accordance with EN 149:2001 + A1:2009		
	(A.R.)	29	0,4	FFP1 ≤ 0,6	1,3	FFP1 ≤ 2,1	Passed
	(A.R.)	30	0,5				
	(A.R.)	31	0,5				
	(S.W.)	1	0,5	FFP2 ≤ 0,7	1,4		
	(S.W.)	2	0,5				
	(S.W.)	3	0,6	FFP3 ≤ 1,0	1,4		
	(T.C.)	13	0,6				
	(T.C.)	14	0,5				
	(T.C.)	15	0,5		1,3		
	Conditioning : (A.R.) As Received, original (S.W.) Simulated wearing treatment (T.C.) Temperature Conditioning						



Article 7.16		Breathing Resistance : Exhalation					
Condition	No. of Sample	The dummy head position	Exhalation Resistance			Result	
			Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2009			
(A.R.)	29	Facing directly	2,0	FFP1 ≤ 3	Passed		
		Facing vertically upwards	2,0				
		Facing vertically downwards	2,0				
		Lying on the left side	2,0				
		Lying on the right side	2,0				
(A.R.)	30	Facing directly	2,0	FFP2 ≤ 3			
		Facing vertically upwards	2,1				
		Facing vertically downwards	2,1				
		Lying on the left side	2,1				
		Lying on the right side	2,0				
Conditioning : (A.R.) As Received, original							
Article 7.16		Breathing Resistance : Exhalation					
Condition	No. of Sample	The dummy head position	Exhalation Resistance			Result	
			Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2009			
(A.R.)	31	Facing directly	2,2	FFP1 ≤ 3	Passed		
		Facing vertically upwards	2,1				
		Facing vertically downwards	2,0				
		Lying on the left side	2,2				
		Lying on the right side	2,0				
(S.W.)	1	Facing directly	2,2	FFP2 ≤ 3			
		Facing vertically upwards	2,2				
		Facing vertically downwards	2,2				
		Lying on the left side	2,2				
		Lying on the right side	2,0				
Conditioning : (A.R.) As Received, original (S.W.) Simulated wearing treatment							
Article 7.16		Breathing Resistance : Exhalation					
Condition	No. of Sample	The dummy head position	Exhalation Resistance			Result	
			Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2009			
(S.W.)	2	Facing directly	2,0	FFP1 ≤ 3	Passed		
		Facing vertically upwards	2,2				
		Facing vertically downwards	2,2				
		Lying on the left side	2,2				
		Lying on the right side	2,0				
(S.W.)	3	Facing directly	2,0	FFP2 ≤ 3			
		Facing vertically upwards	2,3				
		Facing vertically downwards	2,3				
		Lying on the left side	2,1				
		Lying on the right side	2,2				
Conditioning : (S.W.) Simulated wearing treatment							

5.1.2e

UFR - 383 12.12.2012 Rev.00



UNIVERSAL

Breathing Resistance - Exhalation

CERTIFICATION

Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Exhalation Resistance	
				Requirements in accordance with EN 149:2001 + A1:2009	Result
Article 7.16 (T.C.)	13	Facing directly	2,1	FFP1 ≤ 3	Passed
		Facing vertically upwards	2,1		
		Facing vertically downwards	2,0		
		Lying on the left side	2,0		
		Lying on the right side	2,0		
(T.C.)	14	Facing directly	2,0	FFP2 ≤ 3	
		Facing vertically upwards	2,1		
		Facing vertically downwards	2,1		
		Lying on the left side	2,2		
		Lying on the right side	2,2		

Conditioning : (T.C.) Temperature Conditioning

Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Exhalation Resistance	
				Requirements in accordance with EN 149:2001 + A1:2009	Result
Article 7.16 (T.C.)	15	Facing directly	2,0	FFP1 ≤ 3	Passed
		Facing vertically upwards	2,1		
		Facing vertically downwards	2,0		
		Lying on the left side	2,0		
		Lying on the right side	2,0		

Conditioning : (T.C.) Temperature Conditioning

Article 7.17.2 **Clogging :** This test is not applied to Particle Filtering Half Mask which is not reusable.
(For single shift use devices, the clogging test is optional test. For re-usable devices test is mandatory.)

Article 7.17.3 **Penetration of filter material:** This test is not applied to Particle Filtering Half Mask which is not reusable.

Article 7.18 **Demountable Parts:** There are no demountable parts on the product.

Article 9 **Marking - Packaging:** Necessary markings are available on the product and its packaging.

Article 19 **Information to be supplied by the manufacturer:** In each of the smallest commercially available packaging of the product, implementation (installation instruction) pre-use controls, warning and usage limitations, storage and meanings of symbols / pictograms are defined.

PREPARED BY	APPROVED BY
5.1.2e	