

NB 2163

EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163-PPE-1901

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

AnDum Protective Equipment Technology (Changzhou) Co., Ltd. No. 216, Qianjie, Hengshanqiao Town, Changzhou Economic Zone, Changzhou City, Jiangsu Province, 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

Single shift use particle filtering half mask for protection against solid and liquid aerosols, is a folding type, 5 layers, without valve, built-in nose clip, fitted with ear loops.

Model: AD-T001 Classification: FFP2 NR

Model have Rainbow, Animal, Cream-Coloured, Orange, Light Green, Dark Green, Bright Red, Purple and White versions.

For more details, refer technical evaluation report provided to the manufacturer, dated 29.12.2020 and number 2163-KKD-1901

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 09/01/2021 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 KAÇMAZ
UNIVERSAL CERTIFICATION
Director



TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO: 29.12.2020 / 2163-KKD-1901

Manufacturer: AnDum Protective Equipment Technology (Changzhou) Co., Ltd.

Address: No. 216, Qianjie, Hengshanqiao Town, Changzhou Economic Zone, Changzhou City, Jiangsu Province, CHINA

Introduction

This report is prepared for the, given above, manufacturer according to the test results obtained from Guangdong Tsaint Hi-tech Co., Ltd. accredited by CNAS (Chinese Accreditation Service), signatory to ILAC MRA, with number L11197 for the product identified below, dated 06.11.2020 with Serial No TSGK-2020-2219-T based on EN 149: 2001 + A1: 2009 standard and the technical file dated 29.12.2020 Version 1 provided by the manufacturer.

The technical file of the manufacturer, and risk evaluation against the essential health safety requirements and the test report evaluated for their relation with Essential Requirements of Personel Protective Equipment Regulation and found to be appropriate.

This report is an annex and an integral part of the EU Type Examination Certificate issued to the manufacturer. The test results and issued certificate belongs only to the tested model. The technical report consists of a total of 6 pages.

Product Description: Single shift use particle filtering half mask for protection against solid and liquid aerosols, is a folding type, 5 layers, without valve, built-in nose clip, fitted with ear loops.

Component and Materials:

Component	Material	Grade / Size
1st Layer (Outer)	PP Non-woven Fabric	$60 \text{ gsm} (\pm 2 \text{ g/m}^2)$
2nd Layer	ES Heat Sealing Cotton Fabric	$35 \text{ gsm} (\pm 2 \text{ g/m}^2)$
3rd Layer	Melt-blown Fabric	$25 \text{ gsm} (\pm 2 \text{ g/m}^2)$
4th Layer	Melt-blown Fabric	$25 \text{ gsm} (\pm 2 \text{ g/m}^2)$
5th Layer (Inner)	Non-woven Fabric	Density: 28 gsm (\pm 2 g/m ²)
		Width: 175 mm (± 2 mm)
Ear Loop	Chinlon	Length: 130 mm (± 5 mm)
		Width: 5.0 mm (\pm 0.15 mm)
Adjustment Buckle	Plastic	Length: 53 mm (\pm 5 mm)
		Width: 15 mm (± 5 mm)
Nose Bridge	PE White Plastic	Length: 80 mm (±0.05 mm)
		Width: 5.0 mm (± 0.15 mm)
		Thickness: 1.0 mm (\pm 0.15 mm)

Classification: FFP2 NR

Model: AD-T001

Colored samples of the mask



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ESSENTIAL HEALTH and SAFETY REQUIREMENTS GIVEN IN EUROPEAN UNION REGULATION EU 2016/425 CORRESPONDING RISKS FOR THE PRODUCT

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 prossible 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 fore seeable 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 permessible user impediment

Any inpediment 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 addressof 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 guestion;
- 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 deadlineor period of obsolescence of PPEor 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 inaccordance with Article5(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



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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 rem ain perfectly legible throughout the foreseeableuseful 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

3.10.1. Respiratory protection

PPE intended for the protection of the respiratory system must make it possible to supply the user with breathable air when exposed to a polluted atmosphere and/or an atmosphere having an inadequate oxygen concentration.

The breathable air supplied to the user by PPE must be obtained by appropriate means, for example after filtration of the polluted air through PPE or by supply from an external unpolluted source.

The constituent materials and other components of those types of PPE must be chosen or designed and incorporated so as to ensure appropriate user respiration and respiratory hygiene for the period of wear concerned under the foreseeable conditions of use.

The leak-tightness of the facepiece and the pressure drop on inspiration and, in the case of the filtering devices, purification capacity must keep contaminant penetration from a polluted atmosphere low enough not to be prejudicial to the health or hygiene of the user.

The PPE must bear details of the specific characteristics of the equipment which, in conjunction with the instructions, enable a trained and qualified user to employ the PPE correctly.

In the case of filtering equipment, the manufacturer's instructions must also indicate the time limit for the storage of new filters kept in their original packaging.

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

ADMITTAL SA	Conforming to EN 1	49:2001 + A1:20	09 Standard Re	quirements		
	Classification: Particle Filtering Half Mas					
Article	The mask subject to evaluation based on the test results and technical file provided by the manufacturer is classified as;					
5	Filtering Efficiency and Maximum Total Inward Leakage: Classified as FFP2					
	Mask is classified for single shift use, NR					
Article	Packing: Particle filtering half masks are	e packaged to protect	t them from contam	ination before use and with cardboard boxes to n		
7.4	Packing: Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to pre mechanical damage. The packaging design and the product is considered to withstand the foreseeable conditions of use based on the v					
7.4	inspection results given in the test report. D			and the forest and contained of the based on the		
Article	understood it withstands handling and wear failure of the facepiece or straps, any mat nuisance for the wearer. The manufacturer health and safety of users. Manufacturer of Technical File.	over the period for wherial from the filter in declares that the material declares that the material to collapse when subject to the	nich the particle filter, nedia released by the erials used in manufa rial do not have any ect to simulated wear	earing treatment and temperature conditioning resulting half mask is designed to be used, it suffered mechair flow through the filter has not constitute a haz cturing of the mask does not have an adverse affect adverse effect for the wearers health in Section 7 ring and temarature conditioning. No nuisance situation		
7.5	Based on the test result in the test report of 8621.SH.2011.0128 Date 27.11.2020, for 8621.SH.2011.0130 Date 27.11.2020 for 8621.SH.2011.0132 Date 27.11.2020 for I 8621.SH.2011.0134 Date 27.11.2020 for Pu	TUV white and Report numboring, Report numboring, Report numboring Green, Report numboring prepared by TUV pp non-women fabric)	ort numbers 8621.SH. bers 8621.SH.2011.01 bers 8621.SH.2011.0 umbers 8621.SH.201 Thuringen (Shangha	the most outer layer of the mask, with the earloops as 2011.0127 Date 27.11.2020 for Rainbow, Report nu 29 Date 15.12.2020 for Cream-Coloured, Report nu 1231 Date 27.11.2020 for Light Green, Report nu 1.0133 Date 27.11.2020 for Bright Red, Report nu i) Co., Ltd. er layer of the mask is considered to be safe for use		
Article 7.6	manufacturer.	ng half mask is not de	signed to be as re-usa	ble. No cleaning or disinfection procedure provided		
7.6 Article	Practical Performance: The test report indicates that the human su masks, in walking test or work simulation	bjects did not face any tests. The wearers di	difficulty in perform	ning the excercises while they were weared by the sure by means of head harness / straps/ ear loops conward tests about the comfort, field of vision and fas Requirements in accordance with EN 149:2001 + A1:2009 and Result		
7.6 Article	Practical Performance: The test report indicates that the human su masks, in walking test or work simulation security of fastenings and field of vision. A issues.	bjects did not face any tests. The wearers di lso no imperfactions re	difficulty in perform d not report any fails eported during total in	ning the excercises while they were weared by the sure by means of head harness / straps/ ear loops conward tests about the comfort, field of vision and fas Requirements in accordance with EN 149:2001 + A1:2009 and Result		
7.6 Article	manufacturer. Practical Performance: The test report indicates that the human su masks, in walking test or work simulation security of fastenings and field of vision. A issues. Assessed Elements 1.Face piece fitting 2.Head harness comfort	bjects did not face any tests. The wearers di lso no imperfactions respective Positive 2	/ difficulty in perform d not report any failst eported during total in the Negative 0 0	ning the excercises while they were weared by the sure by means of head harness / straps/ ear loops conward tests about the comfort, field of vision and fas Requirements in accordance with EN 149:2001 + A1:2009 and Result Positive results are obtained from the test		
7.6 Article	manufacturer. Practical Performance: The test report indicates that the human su masks, in walking test or work simulation security of fastenings and field of vision. A issues. Assessed Elements 1.Face piece fitting 2.Head harness comfort 3.Security of fastenings	bjects did not face any tests. The wearers di lso no imperfactions respective Positive 2 2 2 2	/ difficulty in perform d not report any failure ported during total in Negative 0 0 0	ning the excercises while they were weared by the sare by means of head harness / straps/ ear loops conward tests about the comfort, field of vision and fas Requirements in accordance with EN 149:2001 + A1:2009 and Result Positive results are obtained from the test subjects		
7.6 Article	manufacturer. Practical Performance: The test report indicates that the human su masks, in walking test or work simulation security of fastenings and field of vision. A issues. Assessed Elements 1.Face piece fitting 2.Head harness comfort 3.Security of fastenings 4.Field of vision	pojects did not face any tests. The wearers di lso no imperfactions respective Positive 2 2 2 2 2 2 2	/ difficulty in perform d not report any failst eported during total in the Negative 0 0	ning the excercises while they were weared by the sure by means of head harness / straps/ ear loops conward tests about the comfort, field of vision and fas Requirements in accordance with EN 149:2001 + A1:2009 and Result Positive results are obtained from the test		
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7.6 Article 7.7 Article	Practical Performance: The test report indicates that the human su masks, in walking test or work simulation security of fastenings and field of vision. A issues. Assessed Elements 1.Face piece fitting 2.Head harness comfort 3.Security of fastenings 4.Field of vision Conditioning: (A.R.) As Received, origina Finish of Parts: Particle filtering half mas burrs. Total Inward Leakage: The Total Inward Leakage test is conduct conduction of the excercises defined in the	Positive Positive 2 2 2 2 ks, which are likely to the face dimensions of t.	Negative O O O O O O O O O O O O O O O O O O O	Requirements in accordance with EN 149:2001 + A1:2009 and Result Positive results are obtained from the test subjects No imperfections with the user, do not have sharp edges and do not c r with a walking band, and samples are taken during a subjected to the conditioning required in the stand reported. The measurement details for each subject a veen 2.0 % and 7.7 %.		





Sodium Chloride Testing 95 L/min max (%)

Requirements in accordance with EN 149:2001 + A1:2009

Result

Penetration of filter material: Sodium Chloride Testing

Condition

No. of

Sample

		Samp	DIE	95 L/min max	(70)	EN 149:2001 + A1:200	9		
	(A.R.)	41		0.1					
	(A.R.)	42		0.1					
							Eiles		
	(A.R.)	43		0.1		FFP1 ≤ 20 %		Filtering half masks fulfil	
Article 7.9.2	(S.W.)	04		0.2				uirements of the stand	
	(S.W.)	05		0.2		FFP2 ≤ 6 %		EN 149:2001 + A1:20	
	(S.W.)	06		0.3				given in 7.9.2 in range of	
	(M.S. T.C.)	11		0.3				FFP1, FFP2 and FFP	
	(M.S. T.C.)	12						classes.	
	(M.S. T.C.)			0.5					
		(M.S. T.C.) 13 0.6 Conditioning: (M.S.) Mechanical Strength							
		and the second					95 L	$min = 1,6 \text{ dm}^3.\text{sn}^{-1}$	
	(T.	C.) Temperate	are Conditioning						
	(A	.R.) As Receiv	ved, original						
	(S.	W.) Simulated	d wearing treatm	ent					
	D		or 011 m						
	Penetration of filte	r material: P	araffin Oil Testii	ng					
			No. of Paraffin Oil Test		Cacting Pag	sting Requirements in accordance			
	Cond	ition	No. of	95 L/min ma		N 149:2001 + A1:2009		Result	
The state and the			Sample	95 L/IIIII IIIa	X (%) With	EN 149:2001 + A1:2009			
	(A	.R.)	44	0.3					
	(A	.R.)	45	0.2					
	(A	.R.)	46	0.3		EED1 < 20.0/	Filtering h	If masks fulfill the	
		W.)	07	0.5		FFP1 ≤ 20 %		ents of the standard	
Article		W.)						19:2001 + A1:2009	
7.9.2			08	0.6		FFP2 ≤ 6 %		.9.2 in range of the	
		W.)	09	0.4				FFP2 and FFP3	
	(M.S.	. T.C.)	14	0.7		FFP3 ≤ 1 %	rrri, i		
	(M.S.	T.C.)	15	0.5				classes.	
	(M.S.	T.C.)	16	0.8					
	Conditioning: (M.S		Strongth	0.0					
			The same of the sa						
	(T.C	2.) Temperatu	re Conditioning						
	(A.J	R.) As Receive	ed, original						
			wearing treatme						
	(3.)	v.) Simulated	wearing treatine	III					
Article	Compatibility with	skin. In Prac	tical Performance	e report the likel	ihood of mack ma	terials in contact with the	olcin oonoir	ag irritation or other	
7.10	adverse effect on he	olth was not r	an artad	e report, the like	mood of mask ma	teriais in contact with the	skin causii	ig irritation or other	
7.10	adverse effect on he	aith was not re	eported.						
	Flammability:								
		_		· ·					
	Condition	No. of	Vie		D .	Requirements in accordance with E			
	Condition	Sample			Requirem	ents in accordance with E	N	Danult	
				iai inspection			N	Result	
Article	(A.R.)	47	Bı		1-	49:2001 + A1:2009	N		
	(A.R.)			ırn for 0 s	1	49:2001 + A1:2009 Filtering half mask	N	Result Passed	
	(A.R.)	48	Bı	ırn for 0 s ırn for 0 s	1- 1 S	49:2001 + A1:2009 Filtering half mask hall not burn or not		Passed	
			Bı	ırn for 0 s	1- 1 3 6	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for	Filter	Passed ring half masks fulfill	
	(A.R.)	48	Bi Bi	ırn for 0 s ırn for 0 s	1 S C	Filtering half mask hall not burn or not ontinue to burn for more than 5 s after	Filter	Passed ring half masks fulfill equirements of the	
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7.11 Article	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide con	48 25 26 2.) As Receive C.) Temperatur ntent of the in No. of Sample	Bridge Br	urn for 0 s	An average CO ₂ content of the inhalation	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accorda	Filter re	Passed ring half masks fulfill equirements of the standard Result	
7.11 Article	(A.R.) (T.C.) (T.C.) Conditioning: (A.R.) Carbon dioxide cor Condition (A.R.)	48 25 26 2.) As Receive C.) Temperatur ntent of the in No. of Sample	Briddy, original re Conditioning whalation air: CO2 content of the [%] by which is the conditioning with the condition of th	urn for 0 s	An average CO ₂ content of the inhalation	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after moval from the flame Requirements in accord. EN 149:2001 + A1:	Filter re	Passed ring half masks fulfill equirements of the standard	
7.11 Article	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide con	48 25 26 2.) As Receive C.) Temperatur ntent of the in No. of Sample	Bridge Br	urn for 0 s	An average CO ₂ content of the inhalation air	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha	Filter re	Passed ring half masks fulfill rquirements of the standard Result Passed	
7.11 Article	(A.R.) (T.C.) (T.C.) Conditioning: (A.R.) (T.C.) Carbon dioxide con Condition (A.R.) (A.R.)	48 25 26 L.) As Receive C.) Temperaturentent of the in No. of Sample 49 50	Bridge Br	urn for 0 s	An average CO ₂ content of the inhalation	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accordance EN 149:2001 + A1:	Filter re	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask	
7.11 Article	(A.R.) (T.C.) (T.C.) Conditioning: (A.R.) Carbon dioxide cor Condition (A.R.)	48 25 26 2.) As Receive C.) Temperatur ntent of the in No. of Sample	Briddy, original re Conditioning whalation air: CO2 content of the [%] by which is the conditioning with the condition of th	urn for 0 s	An average CO ₂ content of the inhalation air	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha	Filter re	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements	
7.11 Article	(A.R.) (T.C.) (T.C.) Conditioning: (A.R.) (T.C.) Carbon dioxide con Condition (A.R.) (A.R.) (A.R.)	48 25 26) As Receive C.) Temperatur ntent of the in No. of Sample 49 50 51	Bridge Br	urn for 0 s	An average CO ₂ content of the inhalation air	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accordance EN 149:2001 + A1:	Filter re	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask	
7.11 Article	(A.R.) (T.C.) (T.C.) Conditioning: (A.R.) (T.C.) Carbon dioxide con Condition (A.R.) (A.R.)	48 25 26) As Receive C.) Temperatur ntent of the in No. of Sample 49 50 51	Bridge Br	urn for 0 s	An average CO ₂ content of the inhalation air	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accordance EN 149:2001 + A1:	Filter re	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements	
7.11 Article 7.12	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide con Condition (A.R.) (A.R.) (A.R.) (A.R.) Conditioning: (A.R.)	48 25 26 L.) As Receive C.) Temperaturentent of the in No. of Sample 49 50 51 L.) As Receive	Bridder Bridde	urn for 0 s	An average CO ₂ content of the inhalation air 0,54 [%]	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha shall not exceed an avaluation.	Filter re ance with 2009 lation air erage of e	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements the standard	
7.11 Article 7.12 Article	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide con Condition (A.R.) (A.R.) (A.R.) (A.R.) Conditioning: (A.R.) Head harness: In P.	48 25 26 L.) As Receive C.) Temperaturentent of the in No. of Sample 49 50 51 L.) As Receive	Bridder Bridde	urn for 0 s the inhalation air volume	An average CO ₂ content of the inhalation air 0,54 [%]	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha shall not exceed an avaluable in the shall not exceed an avaluable been reported for donning the shall not exceed an avaluable in the shall not exceed an	Filter re ance with 2009 lation air erage of e	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements the standard	
	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide con Condition (A.R.) (A.R.) (A.R.) (A.R.) Conditioning: (A.R.)	48 25 26 L.) As Receive C.) Temperaturentent of the in No. of Sample 49 50 51 L.) As Receive	Bridder Bridde	urn for 0 s the inhalation air volume	An average CO ₂ content of the inhalation air 0,54 [%]	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha shall not exceed an avaluable in the shall not exceed an avaluable been reported for donning the shall not exceed an avaluable in the shall not exceed an	Filter re ance with 2009 lation air erage of e	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements the standard	
7.11 Article 7.12 Article	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide con Condition (A.R.) (A.R.) (A.R.) (A.R.) Conditioning: (A.R.) Head harness: In P.	48 25 26 L.) As Receive C.) Temperaturentent of the in No. of Sample 49 50 51 L.) As Receive	Bridder Bridde	urn for 0 s the inhalation air volume	An average CO ₂ content of the inhalation air 0,54 [%]	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha shall not exceed an avaluable in the shall not exceed an avaluable been reported for donning the shall not exceed an avaluable in the shall not exceed an	Filter re ance with 2009 lation air erage of e	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements the standard	
7.11 Article 7.12 Article 7.13	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide con Condition (A.R.) (A.R.) (A.R.) (A.R.) Conditioning: (A.R.) Head harness: In P.	48 25 26 L.) As Receive C.) Temperaturentent of the in No. of Sample 49 50 51 L.) As Receive	Bridder Bridde	urn for 0 s the inhalation air volume	An average CO ₂ content of the inhalation air 0,54 [%]	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha shall not exceed an avaluable in the shall not exceed an avaluable been reported for donning the shall not exceed an avaluable in the shall not exceed an	Filter re ance with 2009 lation air erage of e	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements the standard	
Article Article 7.12 Article 7.13	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide con Condition (A.R.) (A.R.) (A.R.) (A.R.) Conditioning: (A.R.) Head harness: In Presults of these tests	48 25 26 L.) As Receive C.) Temperature tent of the in No. of Sample 49 50 51 L.) As Receive ractical Perforindicates that	Bridge Br	urn for 0 s the inhalation air volume test reports no ad e capable of holdi	An average CO ₂ content of the inhalation air 0,54 [%]	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha shall not exceed an average of the s	Filter re ance with 2009 lation air erage of e	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements the standard	
Article 7.12 Article 7.13 Article	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide con Condition (A.R.) (A.R.) (A.R.) (A.R.) Conditioning: (A.R.) Head harness: In Presults of these tests	48 25 26 L.) As Receive C.) Temperature tent of the in No. of Sample 49 50 51 L.) As Receive ractical Perforindicates that	Bridge Br	urn for 0 s the inhalation air volume test reports no ad e capable of holdi	An average CO ₂ content of the inhalation air 0,54 [%]	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha shall not exceed an avaluable in the shall not exceed an avaluable been reported for donning the shall not exceed an avaluable in the shall not exceed an	Filter re ance with 2009 lation air erage of e	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements the standard	
Article 7.12 Article 7.13	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide con Condition (A.R.) (A.R.) (A.R.) (A.R.) Conditioning: (A.R.) Head harness: In Presults of these tests	48 25 26 L.) As Receive C.) Temperature tent of the in No. of Sample 49 50 51 L.) As Receive ractical Perforindicates that	Bridge Br	urn for 0 s the inhalation air volume test reports no ad e capable of holdi	An average CO ₂ content of the inhalation air 0,54 [%]	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha shall not exceed an average of the s	Filter re ance with 2009 lation air erage of e	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements the standard	
Article 7.12 Article 7.13 Article 7.14	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide cor Condition (A.R.) (A.R.) (A.R.) (A.R.) Conditioning: (A.R. Head harness: In Presults of these tests	48 25 26 2.) As Receive C.) Temperatur ntent of the in No. of Sample 49 50 51) As Receive ractical Perforindicates that	Bridge Br	urn for 0 s the inhalation air volume test reports no ad e capable of holdi	An average CO ₂ content of the inhalation air 0,54 [%]	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha shall not exceed an average of the s	Filter re ance with 2009 lation air erage of e	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements the standard	
7.11 Article 7.12 Article 7.13 Article 7.14 Article	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide cor Condition (A.R.) (A.R.) (A.R.) (A.R.) Conditioning: (A.R.) Head harness: In Presults of these tests Field of vision: In P	48 25 26) As Receive C) Temperatur ntent of the in No. of Sample 49 50 51) As Receive rractical Perfor indicates that	Bridge Br	urn for 0 s the inhalation air volume test reports no ad e capable of holdi	An average CO ₂ content of the inhalation air 0,54 [%]	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha shall not exceed an average of the s	Filter re ance with 2009 lation air erage of e	Passed ring half masks fulfill equirements of the standard Result Passed Filtering half mask fulfil requirements the standard	
Article 7.12 Article 7.13 Article 7.14	(A.R.) (T.C.) (T.C.) Conditioning: (A.R. (T.C.) Carbon dioxide cor Condition (A.R.) (A.R.) (A.R.) (A.R.) Conditioning: (A.R. Head harness: In Presults of these tests	48 25 26) As Receive C) Temperatur ntent of the in No. of Sample 49 50 51) As Receive rractical Perfor indicates that	Bridge Br	urn for 0 s the inhalation air volume test reports no ad e capable of holdi	An average CO ₂ content of the inhalation air 0,54 [%]	49:2001 + A1:2009 Filtering half mask hall not burn or not ontinue to burn for more than 5 s after noval from the flame Requirements in accord. EN 149:2001 + A1: CO2 content of the inha shall not exceed an average of the s	Filter re ance with 2009 lation air erage of e	Passed ring half masks fulfill rquirements of the standard Result Passed Filtering half mask fulfil requirements the standard	



Article	Breathing Resistance: Inhalation The overall evaluation in the figures gathered for 9 different samples 3 as received, 3 with temparature conditioning and 3 simulated wearing
7.16	treatment conditioned samples complies with the limits given in the standard for FFP2 and FFP3 classes. This is valid for inhalation results for 30 L/min, 95 L/min and exhalation at 160 L/min.
	Passed.
Article	Clogging: This test is not applied to Particle Filtering Half Mask which is not reusable.
7.17	(For single shift use devices, the clogging test is optional test. For re-usable devices test is mandatory.)
Article 7.18	Demountable Parts: There are no demountable parts on the product.
Article 8	Testing: All tests conducted according to Clause 8 of this standard is available in the test report and are evaluated in this report for qualification and classification of the mask.
	Marking – Packaging: Necessary markings are available on the product package (box). The name and trademark of the manufacturer is stated to exist on the carton boxes. The type of the mask and the classification including the status of re-usability, the reference to EN 149:2001+A1:2009 standard, the year of end of shelf life, using and storage instructions and pictograms and CE mark are available on the product package. The above evaluation is based on the technical document for packaging and marking, for box design. Verified on the annex 9.1 of the technical file.
Article 9	The technical documentation for mask design (drawing) also evaluated for marking requirements, drawing Annex 6. The mask template (drawing) indicates that the mask will carry information about the brandname of the manufacturer, type of mask, the reference to EN 149+A1:2009 standard and classification including the re-usability of the mask. The manufacturer also printed CE mark with our Notified Body number. The mask do not have sub-assemblies. The tested samples by the laboratory do not carry necessary marking information, as stated in the technical documentation, the manufacturer shall follow marking instructions for serial production given in the technical file. AD-T001 drawing, which exists in the technical file of the manufacturer, as Annex 6 of technical file.
	The manufacturer shall pay attention on the colored samples that the markings shall be easily readable on the mask.
Article 10	Information to be supplied by the manufacturer: In each of the smallest commercially available packaging of the product, implementation (installation instructions) pre-use controls, warning and usage limitations, storage and meanings of symbols / pictograms are defined. User instruction document in the technical file found to be appropriate, Annex 8. The manufacturer shall include this documented user information text in every smallest commertially available package.

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