

TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO: 18.01.2021 / 2163-KKD-1929

Manufacturer: ECT PRODUCTIONS GMBH & CO. KG Address: Philipp-Kachel-Str. 42a 63911 Klingenberg / Germany

Introduction

This report is for the, given above, manufacturer prepared according to the test results obtained from Universal Certification And Surveillance Services Trade Co., dated 16.12.2020 with Serial Id 12-2020-T0584 based on EN 149: 2001 + A1: 2009 standard and the technical file dated 08 January2020 (Revision 1.2) 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 No. 2163-PPE-1929 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 use particle filtering half mask for protection against solid and liquid aerosols, is a folding type, 4 layered, without valve, ear straps and adjustable nose bar.

Component and Materials:

Component	Material	Grade
1st layer (Outer)	Nonwoven Fabric	50 g/m²
2nd layer	Hot air cotton	35 g/m²
3rd layer	Melt-blown fabric	40 g/m²
4th layer (Inner)	Nonwoven Fabric	50 g/m²
Ear Strap	71% nylon and 29% spandex	Lenght: 180 mm Width: 5mm
Nose Bridge	Double-core metal wire coated in plastic	Length:90 mm Width: 5mm

Classification: FFP3 NR

Model: A011141



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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

	Classification: Parti	cle Filtering Half Mas	k							
Article	The mask subject to	evaluation based on th	e test results and technic	al file provided by	the manufacturer is classified	as:				
5			ward Leakage: Classifie							
		r single shift use, NR								
(2785 B)			re nackaged to protect	them from contan	vination before use and with	h cordboard hoves to pr				
Article	machanical damage	Packing: Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to preven mechanical damage. The packaging design and the product is considered to withstand the foreseeable conditions of use based on the visual								
7.4		inspection results given in the test report. Details given in Technical File.								
	Material: Materials	used in particle filteri	ng nair masks, according	to the simulated v	vearing treatment and temper	ature conditioning results:				
	understood it withsta	nds handling and wea	r over the period for whi	ch the particle filter	ring half mask is designed to	be used, it suffered mecha				
Article	failure of the facepi	ece or straps, any ma	terial from the filter me	dia released by the	e air flow through the filter	has not constitute a haza				
7.5			r declares that the mater	ials used in manufa	acturing of the mask does no	t have an adverse affect to				
	health in Technical I	ile.								
	Based on the test re	sults, the masks did r	ot collapse when subject	t to simulated wea	aring and temarature condition	ning. No nuisance situati				
			ests by human subjects.							
Article	Cleaning and Disin	fection: Particle filter	ing half mask is not desi	gned to be as re-us	able. No cleaning or disinfect	tion procedure provided b				
7.6	manufacturer.									
	Practical Performa	nce:								
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rticle	issues.									
.7		IEI .	m 10	- 27	Requirements in acco	rdance with EN				
	A	ssessed Elements	Positive	Negative	149:2001 + A1:200					
	2.Head	harness comfort	2	0	Positive results are obta	ined from the test				
	3.Secur	ity of fastenings	2	0	subject	ts.				
	5.Field	of vision	2	0	No imperfe	ctions				
	Conditioning: (A.R	Conditioning: (A.R.) As Received, original								
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7.8	burrs.									
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	Total Inward Leak	ige:								
	The Total Inward L	eakage test is conduc	ted by 10 individual in	an aerosol chamb	er with a walking band, and	samples are taken during				
	conduction of the ex	conduction of the excercises defined in the standard. The samples used in the test are subjected to the conditioning required in the standard temperature conditioning and as received. The face dimensions of the subjects are also reported. The measurement details for each subject and f								
		ning and as received			선물이 가는 사람이 집에 가장 아무리를 받았다. 그 이렇게 되었다면 하는 사람이 가지 않는데 되었다.					
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	temperature condition each excersize are as a second to the second that the se	railable in the test report results are smithmetic mean is sma According to to material: Sodium Cl No. of Sample 36 37 38	The face dimensions of tot. naller or equal to 5%, the liler or equal to 2%, the v the reported results, the lileride Testing Sodium Chloride Total (50,007,009,0009,0004)	values varies between the product meets the esting Req	een 1,02% and 2,03%. en 1,33% and 1,70%. e limits for FFP3 classificati	Result Filtering half masks fulfil requirements of the stand				
.9.1	temperature condition each excersize are as a second to the second that: All 50 exercise means All 10 individual's a second tion (A.R.) (A.R.) (A.R.) (S.W.)	railable in the test reporter are surrement results are smarthmetic mean is sma According to to the material: Sodium Classification of Sample 36 37 38 1	The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensi	values varies between the product meets the esting Req	een 1,02% and 2,03%. en 1,33% and 1,70%. e limits for FFP3 classificati uirements in accordance with EN 149:2001 + A1:2009	Result Filtering half masks fulfil requirements of the stance EN 149:2001 + A1:200				
.9.1 Article	temperature condition each excersize are as a second to the second that: All 50 exercise means All 10 individual's a second to the second to t	railable in the test reporter are surrement results are smithmetic mean is sma According to to material: Sodium Cl No. of Sample 36 37 38 1 2	The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensi	values varies between the product meets the esting Req	een 1,02% and 2,03%. en 1,33% and 1,70%. e limits for FFP3 classification accordance with EN 149:2001 + A1:2009	Result Filtering half masks fulfil requirements of the stand EN 149:2001 + A1:200 given in 7.9.2 in range of				
.9.1 Irricle	temperature condition each excersize are as a second to the condition of t	railable in the test reporter are surrement results are snorthmetic mean is small according to the material: Sodium Classification of Sample 36 37 38 1 1 2 3 3	The face dimensions of tot. Inaller or equal to 5%, the liler or equal to 2%, the value of the reported results, the liler of the reported results, the liler of the reported results, the liler of the reported results, the liler of the reported results, the liler of the reported results, the liler of the reported results, the liler of the reported results of the reported results of the r	values varies between the product meets the esting Req	een 1,02% and 2,03%. en 1,33% and 1,70%. e limits for FFP3 classificati uirements in accordance with EN 149:2001 + A1:2009 FFP1 \leq 20 % FFP2 \leq 6 %	Result Filtering half masks fulfil requirements of the stand EN 149:2001 + A1:200 given in 7.9.2 in range of FFP1, FFP2 and FFP				
	temperature condition each excersize are as a second to the second that: All 50 exercise means All 10 individual's a second to the second to t	railable in the test reporter are surrement results are smithmetic mean is sma According to to material: Sodium Cl No. of Sample 36 37 38 1 2	The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensions of tot. The face dimensi	values varies between the product meets the esting Req	een 1,02% and 2,03%. en 1,33% and 1,70%. e limits for FFP3 classificati uirements in accordance with EN 149:2001 + A1:2009	Result Filtering half masks fulfil requirements of the stand EN 149:2001 + A1:200 given in 7.9.2 in range of				

Conditioning: (M.S.) Mechanical Strength

(M.S. T.C.)

(M.S. T.C.)

(T.C.) Temperature Conditioning

11

12

(A.R.) As Received, original (S.W.) Simulated wearing treatment

95 L/min = 1,6 dm³.sn⁻¹



0,017

0,018



			F	Penetration of filte	r material: Par	affin Oil Testing			
	C	ondition	No. of Sample	Paraffin Oil 95 L/min m		Requirements in accordance rith EN 149:2001 + A1:2009		Result	
		(A.R.)	39	0,013					
		(A.R.)	40	0,007					
1		(A.R.)	41	0,011		FFP1 ≤ 20 %	Filtering l	half masks fulfill the	
Article		(S.W.)	4	0,003		1111 5 20 76	requirements of the standard		
7.9.2		(S.W.)	5	0,004		FFP2 ≤ 6 %	EN 149:2001 + A1:2009 given in 7.9.2 in range of the FFP1, FFP2 and FFP3 classes.		
		(S.W.)	6	0,003		Data Con Delicology Control (Control (C			
		1.S. T.C.)	13	0,019		FFP3 ≤ 1 %			
		1.S. T.C.)	15	0,019				eranoes.	
	Conditioning: (N	T.C.) Temper A.R.) As Rec							
Article 7.10	Compatibility w adverse effect on	rith skin: In P health was no	ractical Performand of reported.	ce report, the likel	ihood of mask	materials in contact with the	skin causi	ng irritation or other	
	Flammability:								
	Condition (A.R.)	No. 6 Samp	ole Vis	ual inspection	Requir	rements in accordance with E 149:2001 + A1:2009	N	Result	
Article	(A.R.) 45		The second secon	im for 0.0s	100000000000000000000000000000000000000	Filtering half mask		Passed	
7.11	(T.C.)	21		ım for 0.0s		shall not burn or not continue to burn for	Filtering half masks fulfill		
	(T.C.)	22		irn for 0.1s		more than 5 s after		requirements of the	
		Conditioning: (A.R.) As Received, original removal from the flame standard							
	Carbon dioxide		ature Conditioning						
Article	Condition	No. of CO ₂ content of the Sample [%] by vo			An average CO ₂ content the inhalatio	of Requirements in accorda		Result	
7.12	(A.R.)	26	0,59		air			PI	
	(A.R.)	27	0,58			CO2 content of the inhal	ation air	Passed	
	(A.R.)	28	0,58		0,58 [%] shall not exceed an average 1,0% by volume		erage of	Filtering half mask fulfil requirements of the standard	
	Conditioning: (A	.R.) As Recei	ved, original					the standard	
Article 7.13	Head harness: In results of these te	Practical Per sts indicates tl	formance and TIL nat the ear loops / h	test reports no ad ead harness are ca	verse effects has apable of holdi	ave been reported for donning the mask firmly enough.	and rem	ove of the mask also th	
Article 7.14	Field of vision: In	n Practical Per	formance report, n	o adverse effects	were reported i	or the field of vision availabi	lity when	the mask is weared.	
Article 7.15	Exhalation Valve The model under Passed.		ve no valves.						
Article 7.16	The overall evalutreatment conditions L/min, 95 L/min a	nation in the fo	igures gathered for with the limits giv	9 different samp	eles 3 as receiv	red, 3 with temparature cond P2 and FFP3 classes. This is	itioning a	nd 3 simulated wearing inhalation results for 3	
	Passed.								





Article 7.17	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 7.18	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 clearly visible. 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 Section 9.1 on the technical file.
Article 9	The technical documentation for mask design (drawing) also evaluated for marking requirements, drawing A011141 The mask marking indicates that the mask will carry information about the brandname of the manufacturer, type of mask, the reference to EN 149:2001+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 carry necessary marking information as stated in the technical documentation, the manufacturer shall also follow marking instruction in the technical file for serial production. Model A011141 drawing exists in the technical file Section 6 of the manufacturer,
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 Section 8, The manufacturer shall include this documented user information text in every smallest commertially available package.

PREPARED BY	APPROVED BY	SAL CER
Osman CAMCI PPE Expert	Suat KAÇMAZ Director	2163



UNIVERSAL CERTIFICATION and SURVEILLANCE SERVICES TRADE CO.

Necip Fazil Bulvari Keyap Sitesi E2 Blok No:44/84 Yukari Dudullu Umraniye, Istanbul / TURKEY

TEST REPORT

Report Date: 16.12.2020

Report Number: 12-2020-T0584

CLIENT and SAMPLE INFORMATION

TEST OWNER	ECT Productions GmbH & Co. KG						
ADDRESS	Philipp-Kach	Philipp-Kachel-Str. 42a 63911 Klingenberg / Germany					
SAMPLE DESCRIPTION	Folding type	protective ma	sk				
BRAND NAME - MODEL	A011141						
TESTING STANDARD	EN 149+A1:	2009					
CASE NUMBER	CE-PPE-374	2					
SAMPLE RECEIVE DATE	27.11.2020 TESTING START DATE 27.11.2020				27.11.2020		
DISINFECTION INSTRUCTION If applicable	Not given, si	Not given, single use only					
NUMBER OF SAMPLES	50	SAMPLE I	Ds:	1 – 46			
AS RECEIVED SAMPLE NO	26-46						
	Simulated wearing treatment		1-2-3-4-5-6-7-8-9 (As Received)				
CONDITIONING SAMPLE NO	Temperature conditioning		10-11-12-13-14-15 (Sample after test of Mechanical Strength)				
			16-17-18-19-20-21-22-23-24-25 (As Received)				
	Mechanical s	trength	10-	11-12-13-14-15 (As I	Received)		

The results given in this test report belongs to the samples tested. The report content cannot be recreated partially without the written consent of UNIVERSAL CERTIFICATION.

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UYGUNLUK
DEĞERLENDIRME A.Ş.

Tatlisu Mah. Arif Ay SK. No:16/3 Ümran ye / İSTANBUL Alemdağ V.D.: 892 061 3432 Mersis No: 0892061845200001 Suat KAÇMAZ

Suat KAÇMAZ Director



1. REPORT SUMMARY

TEST STANDARD	TEST NAME	RESULT	EVALUATION	
EN 149:2001 +				
A1:2009 clause 8.5	Total Inward Leakage Testing	Pass	FFP3	
EN 13274-1:2001			222	
EN 149:2001 +				
A1:2009 clause 8.11	Penetration of Filter Material	Pass	FFP3	
EN 13274-7:2019				
EN 149:2001 +				
A1:2009 clause 8.6	Flammability Testing	Pass	See results	
EN 13274-4:2001				
EN 149:2001 +	C. I. Di il C CTI V. I			
A1:2009 clause 8.7	Carbon Dioxide Content of The Inhalation	Pass	See results	
EN 13274-6:2001	Air Testing		The second control of the second	
EN 149:2001 +	Breathing Inhalation Resistance-30 l/min	Pass	See results	
A1:2009 clause 8.9	Distance of Final	1 455	See results	
EN 13274-3:2001	Breathing Inhalation Resistance-95 l/min	Pass	See results	
EN 149:2001 +				
A1:2009 clause 8.9	Exhalation Resistance, flow rate 160 l/min	Pass	See results	
EN 13274-3:2001		Lead Market Hex	occ results	





2. TEST RESULTS and EVALUATION

7.4 PACKAGING (EN 149:2001 + A1:2009 clause 8.2)

Test Method: Clause 8.2-Visual inspection

REQUIREMENT	RESULTS	COMMENT
Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.	Pass	The masks were packaged in sealed plastic bags, in larger plastic bags inside a large cardboard box that gave some protection against mechanical damage or contamination before use

Lab A

7.5 MATERIAL (EN 149:2001 + A1:2009 clause 8.2, 8.3.1, 8.3.2)

Test Method: Clause 8.2-Visual inspection

Clause 8.3.1-Simulated wearing treatment

A breathing machine is adjusted to 25 cycles/min and 2,0 l/stroke. The particle filtering half mask was mounted on a Sheffield dummy head.

For testing, a saturator is incorporated in the exhalation line between the breathing machine and the dummy head, the saturator being set at a temperature in excess of 37 °C to allow for the cooling of the air before it reaches the mouth of the dummy head.

The air has been saturated at (37 ± 2) °C at the mouth of the dummy head

Clause 8.3.2-Temperature conditioning

The ambient temperature for testing has been between 16 °C and 32 °C and the temperature limits has been subject to an accuracy of ± 1 °C.

- a) for 24 h to a dry atmosphere of (70 ± 3) °C;
- b) for 24 h to a temperature of (-30 ± 3) °C; and allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing. The conditioning has been carried out in a manner which ensures that no thermal shock occurs.

REQUIREMENT	RESULTS	COMMENT
Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.	Pass	The materials used were able to withstand handling and wear during the limited laboratory testing carried out.
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Pass	It was not constitute a hazard or nuisance for the wearer.
After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.	Pass	None of the specimens conditioned suffered mechanical failure.
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Pass	None of the specimens had not collapse after conditioning.

Lab B





7.6 CLEANING AND DISINFECTING (EN 149:2001 + A1:2009 clause 8.4, 8.5, 8.11)

Test Method: Described in Clause 8.4, 8.5 and 8.11

REQUIREMENT	RESULTS	COMMENT
If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer. With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.	N/A	This article is not applicable for tested protective mask which is single use disposable mask.

7.7 PRACTICAL PERFORMANCE (EN 149:2001 + A1:2009 clause 8.4)

Test Method: Described in Clause 8.4

REQUIREMENT	RESULTS	COMMENT
The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that can not be determined by the tests described elsewhere in this standard.	No imperfections	Detail refer to Annex I
Two as received mask samples are used by two subject for the walking (10 mins walking with a speed of 6km/h) and work simulation (bended walking, crawling and basket filling exercises) tests.		

Annex I-Test Result:

Number of sample: 29 (A.R), 30 (A.R)

Assessed elements	Positive Assessment	Negative Assessment	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
The face piece fitting Head harness comfort Security of fastenings Field of vision	2 2 2 2 2	0 0 0 0	Filtering half masks should not have imperfections related to wearer's acceptance	Filtering half masks fulfil requirements of the standard EN 149:2001 + A1:2009 given in 7.7 No imperfections

The subjects (MEG and MA) were able to complete the exercises and did not report any nuisance or problem with the mask. Lab B

7.8 FINISH OF PARTS (EN 149:2001 + A1:2009 clause 8.2)

Test Method: Described in Clause 8.2

REQUIREMENT	RESULTS	COMMENT
Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.	Pass	None of the specimens used in laboratory testing showed evidence of sharp edges or burrs while visual inspection and performance tests.

Lab A



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7.9.1 TOTAL INWARD LEAKAGE (EN 149:2001 + A1:2009 clause 8.5)

Test Method: Described in Clause 8.5

REQUIREMENT	RESULTS	COMMENT
The total inward leakage consists of three components: face seal leakage, exhalation value leakage (if exhalation value fitted) and filter penetration. For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual results shall be not greater than: 25 % for FFP1, 11 % for FFP2, 5 % for FFP3 and in addition at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall not be greater than: 22 % for FFP1, 8 % for FFP2, 2 % for FFP3	Pass	Classified as FFP3 Detail refer to Annex II

Annex II-Test Result:

The test results obtained are given in the tables as follows

Test Subject	No of sample	Cond.	1. Walk (%)	Head side/ side (%)	Head up/down (%)	Talk (%)	2. Walk (%)	Average (%)
1	31	A.R.	1,02	1,28	2,03	1,46	2,06	1,57
2	32	A.R.	1,18	1,35	1,39	1,36	1,79	1,41
3	33	A.R.	1,51	1,33	1,38	1,3	1,15	1,33
4	34	A.R.	1,92	1,32	1,53	1,16	2,01	1,58
5	35	A.R.	1,55	1,84	1,18	1,41	1,06	1,40
6	16	T.C.	1,72	2,02	1,49	1,46	1,82	1,70
7	17	T.C.	1,32	1,65	1,14	1,11	2,02	1,44
8	18	T.C.	1,21	1,14	1,12	1,97	1,82	1,45
9	19	T.C.	1,37	1,94	1,26	1,84	1,43	1,57
10	20	T.C.	2,03	1,88	1,82	1,19	1,03	1,59
			e not greater tha				•	Pass (FFP3)

Test Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
1	117	155	130	60
2	113	148	128	62
3	112	160	134	59
4	115	148	125	61
5	120	158	132	57
6	118	150	134	59
7	115	152	130	57
8	117	155	134	59
9	114	149	128	57
10	110	150	131	55

For Information Only

Lab B





7.9.2 PENETRATION OF FILTER MATERIAL (EN 149:2001 + A1:2009 clause 8.11)

Test Method: Described in Clause 8.11

REQUIREMENT			RESULTS	COMMENT	
Classification	Max penetration	Max penetration of test aerosol			
	NaCl test 95 l/min %max	Paraffin oil test 95 l/min %max	Pass	Detail refer to Annex IIIA and IIIB	
FFP1	20	20		Detail Telef to Millex 1117 and 1116	
FFP2	6	6			
FFP3	1	1			

Annex IIIA-Test Result:

The test results obtained are given in the tables as follows;

No. of Sample	Condition	Penetration of Sodium Chloride in accordance with EN 13274- 7:2019 [%] Flow rate 95 l/min	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
36		0,017		Passed
37	As received	0,009		
38		0,004	FFP1 ≤ 20 %	Filtering half masks fulfil
1	C: 1 1 1 1	0,002	FFF1 \(\sum 20 \) 70	the requirements of the
2	Simulated wearing	0,002	FFP2 < 6 %	standard EN
3	treatment	0,001	1112 20 70	149:2001+A1:2009 given
10	Mechanical strength +	0,015	FFP3 ≤ 1 %	in 7.9.2 in range of the
11	Temperature	0,017	11.13 = 1 //	first, second and third
12	conditioned	0,018		protection class (FFP1, FFP2,FFP3)

Annex IIIB-Test Result:

The test results obtained are given in the tables as follows;

No. of Sample	Condition	Penetration of Paraffin Oil Mist in accordance with EN 13274-7:2019 [%] Flow rate 95 l/min	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
39		0,013		Passed
40	As received	0,007		
41	Control of the second s	0,011	FFP1 ≤ 20 %	Filtering half masks fulfil
4	6: 1 1	0,003	Servician de serviciana de servician	the requirements of the
5	Simulated wearing	0,004	FFP2 ≤ 6 %	standard EN
6	treatment	0,003		149:2001+A1:2009 given
13	Mechanical strength +	0,019	FFP3 ≤ 1 %	in 7.9.2 in range of the first,
14	Temperature	0,019		second and third protection
15	conditioned	0,020		classes (FFP1, FFP2,FFP3)

Lab A + B



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7.10 COMPATIBILITY WITH SKIN (EN 149:2001 + A1:2009 clause 8.4, 8.5)

Test Method: Described in Clause 8.4 and 8.5.

REQUIREMENT	RESULTS	COMMENT
Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.	Pass	No irritation or any other adverse effect to health or sensitivity reported by the subjects during the practical performance and TIL tests.

Lab B

7.11 FLAMMABILITY (EN 149:2001 + A1:2009 clause 8.6)

Test Method: Described in Clause 8.6

REQUIREMENT	RESULTS	COMMENT
The material used shall not present a danger for the wearer and shall not be of highly flammable nature. When tested, the particle filtering half mask shall not burn or not to continue to burn 5s after removal from the flame.	Pass	Detail refer to Annex IV

Annex IV-Test Result: The test results obtained are given in the tables as follows:

No. of Sample	Condition	Visual inspection	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
45	A CONTRACTOR OF COM	0,0 s	Filtering half mask	Passed
46	As received	0,1 s	shall not burn or not	Filtering half masks fulfil
21	Temperature	0,0 s	continue to burn for more than 5 s after	requirements of the standard EN 149:2001 +
22	conditioned	0,1 s	removal from the flame	A1:2009 given in 7.11

Lab B

7.12 CARBON DIOXIDE CONTENT OF THE INHALATION AIR (EN 149:2001 + A1:2009 clause 8.7)

Test Method: Described in Clause 8.7

REQUIREMENT	RESULTS	COMMENT	
The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume)	Pass	Detail refer to Annex V	

Annex V-Test Result: The test results obtained are given in the tables as follows:

No. of Sample	Condition	CO ₂ content of the inhalation air [%] by volume	An average CO ₂ content of the inhalation air [%] by volume	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
26		0,591		CO ₂ content of the	Passed
27	As received	0,583	0,587	inhalation air shall not exceed an	Filtering half masks fulfil requirements of the
28		0,587		average of 1,0% by volume	standard EN 149:2001 + A1:2009 given in 7.12

Lab B

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7.13 HEAD HARNESS (EN 149:2001 + A1:2009 clause 8.4, 8.5)

Test Method: Described in Clause 8.4, 8.5

REQUIREMENT	RESULTS	COMMENT
The head harness shall be designed so that the particle filtering half-mask can be donned and removed easily.	Pass	No problem with the head harness reported by the wearers during the practical performance test.
The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and capable of maintaining total inward leakage requirements for the device.	Pass	No problem with the head harness reported by the wearers during the practical performance test.

7.14 FIELD OF VISION (EN 149:2001 + A1:2009 clause 8.4)

Test Method: Described in Clause 8.4

REQUIREMENT	RESULTS	COMMENT
The field of vision is acceptable if determined so in practical performance tests.	Pass	There were no adverse comments following practical performance tests.

Lab B

7.15 EXHALATION VALVE (EN 149:2001 + A1:2009 clause 8.2, 8.3.4, 8.8, 8.9.1)

Test Method: Clause 8.2, 8.3.4, 8.8, 8.9.1

REQUIREMENT	RESULTS	COMMENT
A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	N/A	No exhalation valve in tested samples.
If an exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device that may be necessary for the particle filtering half mask to comply with 7.9	N/A	No exhalation valve in tested samples.
Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30s.	N/A	No exhalation valve in tested samples.
When the exhalation valve housing is attached to the face blank, it shall withstand axially a tensile force of 10N applied for 10s.	N/A	No exhalation valve in tested samples.

Lab -





7.16 BREATHING RESISTANCE (EN 149:2001 + A1:2009 clause 8.9)

Test Method: Described in Clause 8.9

	REQU	IREMENT	RESULTS	COMMENT	
Classification		rmitted resistance			Classified as FFP2
L	Inha	lation	Exhalation	Front .	
	30 l/min	95 1/min	160 l/min	Pass	Detail refer to Annex VIA-VIB
FFP1	0.6	2.1	3.0		
FFP2	0.7	2.4	3.0		
FFP3	1.0	3.0	3.0		

Annex VIA-Test Result:

The test results obtained are given in the tables as follows;

Inhalation Resistance

No. of	Condition	Inhalation Resistance (mbar)						
Sample		Flow rate 30 l/min [mbar]	Requirements in accordance with EN 149:2001+A1:2009	Flow rate 95 l/min [mbar]	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity		
42		0,48		1,38				
43	As received	0,52		1,32				
44		0,50	FFP1 ≤ 0,60	1,32	FFP1 ≤ 2,10	Passed		
7	Simulated	0,49	- 1201-21XX	1,38		Qualifies		
8	wearing	0,47	FFP2 ≤ 0,70	1,35	FFP2 ≤ 2,40	FFP1, FFP2,		
9	treatment	0,51		1,35		FFP3		
23	Townstown	0,45	FFP3 ≤ 1,0	1,30	FFP3 ≤ 3,00			
24	Temperature conditioned	0,42		1,29				
25	conditioned	0,44		1,25				

Annex VIB-Test Result:

The test results obtained are given in the tables as follows; Exhalation Resistance

No. of Sample	Condition	Flow rate	Facing directly	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
42			1,51	1,53	1,45	1,51	1,50		
43	As received		1,53	1,55	1,47	1,54	1,55		
44			1,48	1,50	1,44	1,56	1,52	FFP1 ≤ 3,0	Passed
7	Simulated		1,55	1,52	1,48	1,49	1,49		Qualifies
8	wearing	160l/min	1,52	1,53	1,49	1,47	1,53	FFP2 ≤ 3,0	FFP1, FFP2,
9	treatment		1,54	1,56	1,47	1,53	1,56	100000000000000000000000000000000000000	FFP3
23	The Court of the C	1	1,42	1,47	1,42	1,41	1,45	FFP3 ≤ 3,0	
24	Temperature conditioned		1,45	1,45	1,40	1,43	1,42		
25	conditioned		1,41	1,43	1,39	1,45	1,43		

Lab A





7.17 CLOGGING (EN 149:2001 + A1:2009 clause 8.9, 8.10)

Test Method: Described in Clause 8.8, 8.10

REQUIREMENT	RESULTS	COMMENT
Valved particle filtering half masks: After clogging the inhalation resistances shall not exceed: FFP1:4mbar, FFP2:5mbar, FFP3:7mbar at 95L/min continuous flow. The exhalation resistance shall not exceed 3mbar at 160L/min continuous flow. Valveless particle filtering half masks: After clogging the inhalation resistances shall not exceed: FFP1:3mbar, FFP2:4mbar, FFP3:5mbar at 95L/min continuous flow	NAs	This is optional test and not desired by client.

Lab -

7.18 DEMOUNTABLE PARTS (EN 149:2001 + A1:2009 clause 8.2)

Test Method: Described in Clause 8.2

REQUIREMENT	RESULTS	COMMENT	
All demountable parts (if fitted) shall be readily connected and secured, where possible by hand	N/A	No demountable part.	

Lab -

Pass	Requirement satisfied.	
NCR	Requirement not satisfied. Refer to the "Result details" section for more information.	
NAs Assessment not carried out.		
N/A	Requirement not applicable.	

LABORATORY INFORMATION

Code	Laboratory Name	Competency Explanations
Lab A	UNIVERSAL SERTIFIKASYON VE GOZETIM HIZMETLERI TIC. LTD. STI.	Internal Laboratory Services of Notified Body
Lab B	GCNTR ULUSLARARASI BELGELENDIRME, GOZETIM, EGITIM VE DIS TICARET LIMITED SIRKETI KOCAELI DILOVA SUBESI	Laboratory holds an accreditation by Turkish Accreditation Agency with number AB-1252-T according to EN ISO/IEC 17025:2017.
•	of the laboratories is also under supervision /	JNIVERSAL CERTIFICATION and the technical competence assessment of UNIVERSAL CERTIFICATION based on the nts for bodies certifying products, processes and services
•	Each test result given in this test report show	n with the issuing laboratory code.



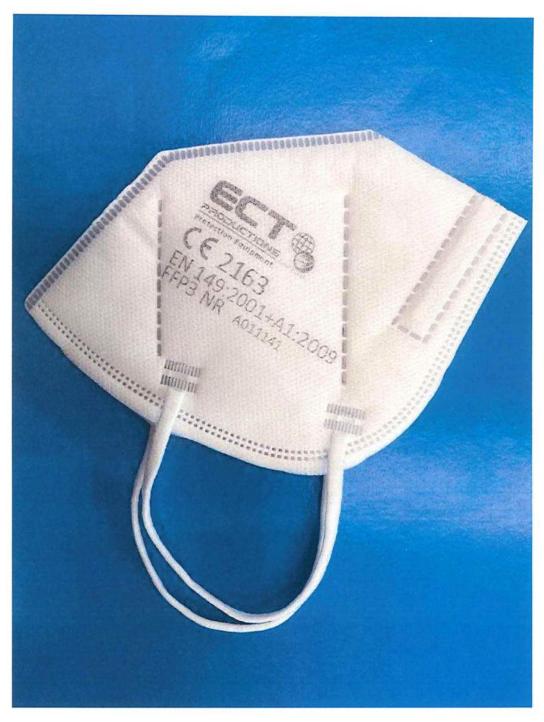
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Sample Photo



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