

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: 12.11.2020

Report Number: 11-2020-T0501

CLIENT and SAMPLE INFORMATION

TEST OWNER	FIT FARM INNOVATION TEAM GMBH						
ADDRESS	Webereistr.1a	Webereistr.1a 48565 Steinfurt GERMANY					
SAMPLE DESCRIPTION	Folding type	protective m	ask				
BRAND NAME - MODEL	FIT / FIT F25	1		£			
TESTING STANDARD	EN 149+A1:2	2009					
CASE NUMBER	CE-PPE-3559	CE-PPE-3559					
SAMPLE RECEIVE DATE	02.11.2020	02.11.2020 TESTING START DATE 02.11.2020			02.11.2020		
DISINFECTION INSTRUCTION If applicable	Not given, single use only						
NUMBER OF SAMPLES	50	SAMPLE 1	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)				
	Mechanical strength		16-17-18-19-20-21-22-23-24-25 (As Received) 10-11-12-13-14-15 (As 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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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		1 435	TTIS	
EN 149:2001 +				
A1:2009 clause 8.11	Penetration of Filter Material	Pass	FFP3	
EN 13274-7:2019		1 435	FFIS	
EN 149:2001 +				
A1:2009 clause 8.6	Flammability Testing	Pass	See results	
EN 13274-4:2001		1 435	Secresuits	
EN 149:2001 +	C. I. Di il C			
A1:2009 clause 8.7	Carbon Dioxide Content of The Inhalation	Pass	See results	
EN 13274-6:2001	Air Testing	1 433	See results	
EN 149:2001 +	Breathing Inhalation Resistance-30 l/min	Pass	Comment	
A1:2009 clause 8.9		rass	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		2 4655	See results	

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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.

<u>REQUIREMENT</u>	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

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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

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

<u>REQUIREMENT</u>	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.	1,23	1,45	1,65	1.72	1.89	1,58
2	32	A.R.	1,36	1,47	1,65	1,89	1.99	1.67
3	33	A.R.	1,36	1,45	1,49	1.78	1,82	1.58
4	34	A.R.	1,41	1,57	1,69	1,72	1,88	1,65
5	35	A.R.	1,46	1,57	1,72	1,81	1,93	1,70
6	16	T.C.	1,51	1.67	1,71	1.84	1,98	1,74
7	17	T.C.	1,42	1,57	1,64	1,77	1,99	1,68
8	18	T.C.	1,56	1,70	1,81	1,92	1,97	1,79
9	19	T.C.	1,37	1,48	1,64	1,71	1,91	1,62
10	20	T.C.	1,40	1,44	1,62	1,73	1,92	1,62
All 50 indi All 10 indi	vidual exerci vidual weare	se results were r arithmetic m	e not greater that eans were not gr	n 5 % reater than 2 %	ю.		-1	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

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Lab B



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

Test Method: Described in Clause 8.11

	<u>REQUIREMENT</u>		RESULTS	COMMENT
Classification FFP1 FFP2 FFP3	Max penetration NaCl test 95 l/min %max 20 6	Paraffin oil test 95 l/min %max 20 6	Pass	Detail refer to Annex IIIA and IIIB

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 37 38	As received	0,01 0,05 0,08	FFP1 ≤ 20 %	Passed
1 2 3	Simulated wearing treatment	0.07 0.06 0.06	FFP2 ≤ 6 %	Filtering half masks fulfil the requirements of the standard EN 149:2001+A1:2009 given in
10 11 12	Mechanical strength + Temperature conditioned	0,09 0,09 0,10	FFP3 ≤ 1 %	7.9.2 in range of the first, second and third 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	Requirements in accordance with EN	Assessment of Test Result Conformity /
		[%] Flow rate 95 l/min	149:2001+A1:2009	Nonconformity
39		0,02		Passed
40	As received	0,03		1 43304
41		0,03	FFP1 ≤ 20 %	Filtering half masks fulfil
4	Simulated wearing	0,03		the requirements of the
5	treatment	0.04	FFP2 ≤ 6 %	standard EN
6	treatment	0,04		149:2001+A1:2009 given
13	Mechanical strength +	0,06	FFP3 ≤ 1 %	in 7.9.2 in range of the firs
14	Temperature	0,07		second and third protection
15	conditioned	0.07	1	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.		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

<u>REQUIREMENT</u>	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 a magained	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
22	conditioned	0,1 s	removal from the flame	149:2001 + 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		0,561		CO ₂ content of the	Passed
27	As received	0,573	0,574	inhalation air shall not exceed an	Filtering half masks fulfil requirements of the
28		0,588	7	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.
ab 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 -



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

Test Method: Described in Clause 8.9

	REQU	<u>IREMENT</u>	RESULTS	COMMENT	
Classification		rmitted resistance lation	e (mbar) Exhalation		Classified as FFP3
_	30 l/min	95 l/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		0,45		1,27				
43	As received	0,48		1,22				
44		0,46	FFP1 ≤ 0,60	1,25	FFP1 ≤ 2,10	Passed		
7	Simulated	0,53		1,29	71111 = 2,10	Qualifies		
8	wearing	0,49	FFP2 ≤ 0,70	1,28	FFP2 ≤ 2,40	FFP1, FFP2,		
9	treatment	0,45		1,25		FFP3		
23	Townsel	0,48	FFP3 ≤ 1,0	1,28	FFP3 ≤ 3,00			
24	Temperature conditioned	0,51		1,30				
25	conditioned	0,49		1,32				

Exhalation Resistance

No. of Sample	Condition	Flow rate	Facing directly	Facing vertically	Facing vertically	Lying on	Lying on	Requirements in accordance with	Assessment of Test Result
				upwards	downwards	the	the	EN	Conformity /
						left	right	149:2001+A1:2009	Nonconformity
		LT - P				side	side		
42			1,97	1,63	1,98	1,67	1,73		
43	As received		1,88	1,67	1,95	1,71	1,68		
44			1,91	1,61	1,99	1,65	1,71	FFP1 ≤ 3,0	Passed
7	Simulated		1,86	1,72	1,94	1,67	1,73	5,0	Qualifies
8	wearing	1601/min	1,93	1,64	1,92	1,73	1,69	FFP2 ≤ 3,0	FFP1, FFP2,
9	treatment		1,95	1,75	1,97	1,71	1,73		FFP3
23	Т		1,89	1,67	1,95	1,74	1,70	FFP3 ≤ 3,0	
24	Temperature conditioned		1,87	1,69	1,89	1,68	1,69	,	
25	conditioned		1,95	1,71	1,98	1,72	1,73		

Lab A

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

Test Method: Described in Clause 8.8, 8.10

<u>REQUIREMENT</u>	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	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	NCR Requirement not satisfied. Refer to the "Result details" section for more information.			
NAs	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.		
٠	The laboratories are contracted bodies with UNIVERSAL CERTIFICATION and the technical competence of the laboratories is also under supervision / assessment of UNIVERSAL CERTIFICATION based on the provisions of EN ISO/IEC 17065 Requirements for bodies certifying products, processes and services standard.			
•	Each test result given in this test report shown with the issuing laboratory code.			

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Sample Photo



- End of Report -



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