

AB Tip İnceleme Sertifikası EU Type-Examination Certificate

Belge No / Certificate No	: 277-22-01
Belgelendirme Tarihi - Bir Sonraki Belge Tarihi / Certification Date / Certificate Validity Date	: 12.08.2022-12.08.2027
Belge Geçerlilik Tarihi / Document Validity Period	: 5 yıl / 5 years
Firma Unvanı ve Adresi / Company Name and Address	: i-Access Protect GmbH Riegeler Straße 4, 79364 Malterdingen, Germany
Marka / Modeller / Brand / Models	: PROTECT PRO F20, PROTECT PRO R20
Direktifi / Directive	: 2016/425 REGULATION
Modülü/Kategori / Module / Category	: B MODÜLÜ/ KATEGORİ III MODULE B / CATEGORY III
Teknik Değerlendirme Rapor No/ Technical Evaluation Report No	: MNA 277-22-01

Ürün Tipi / Product Type:

- EN 149:2001+ A1:2009 Solunumla ilgili koruyucu cihazlar - Parçacıklara karşı koruma amaçlı filtreli yarım maskeler/ Respiratory protective devices - Filtering half masks to protect against particles

Ürünün Malzeme Bilgisi / Product Material Information: PROTECT PRO F20, PROTECT PRO R20 model ürünleri kumaş, elastik kayış, burun klipsi ve filtre katmanı kullanılarak imal edilmiştir./ PROTECT PRO F20, PROTECT PRO R20 model products are manufactured using fabric, elastic strap, nose clip, filter layer.

Volkan AKIN
12.08.2022

Karar Verici / Approver

Okan AKEL
12.08.2022

Şirket Müdürü / General Manager





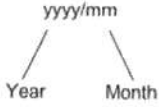

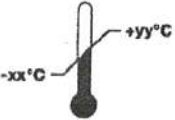

ATTACHMENTS (277-22-01)

To certify the PPE product at Category III level, C2 or D module is accompanied by applying one of the conformity assessment methods along with the EU Type Examination (Module B).

Model : PROTECT PRO F20, PROTECT PRO R20

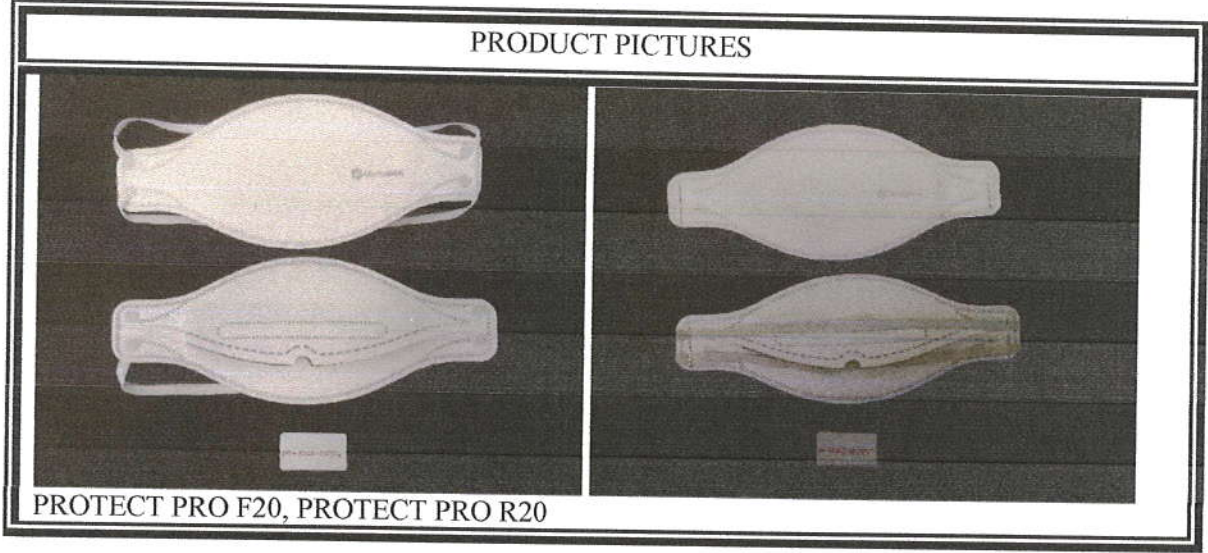
PPE SPECIFICATION	PERFORMANCE LEVELS
Classification	FFP2
Reusable / Single Shift Use	NR

PPE produced as a single unit to fit an individual user, all the necessary instructions for manufacturing such PPE on the basis of the approved basic model:

MARKING					
MANUFACTURER: i-Access Protect GmbH					
PPE TYPE:					
- EN 149:2001+ A1:2009 Respiratory protective devices - Filtering half masks to protect against particles					
MODEL: PROTECT PRO F20, PROTECT PRO R20					
PRODUCT SIZE: Standard size					
PICTOGRAM AND PERFORMANCE LEVELS:					
EN 149:2001+ A1:2009 FFP2 NR					
					
NB 2841		Or Condition of Storage			

MNA LABORATORIES SAN. TIC. LTD. ŞTİ declares that the above-mentioned product meets the requirements of the directive according to the EU Directive 2016/425, the safety of the product is covered by the conditions and use specified in this certificate and in the technical file.

ATTACHMENTS (277-22-01)



DOCUMENTS IN THE TECHNICAL FILE

- Basic Health Safety Requirements
- Risk Assessment
- Test Reports
- Technical Report

Report No : 277-22-01

Report Date : 04.08.2022

Application No : 277-22-01

1. COMPANY INFORMATION:

i-Access Protect GmbH
Riegeler Straße 4, 79364 Malterdingen, Germany

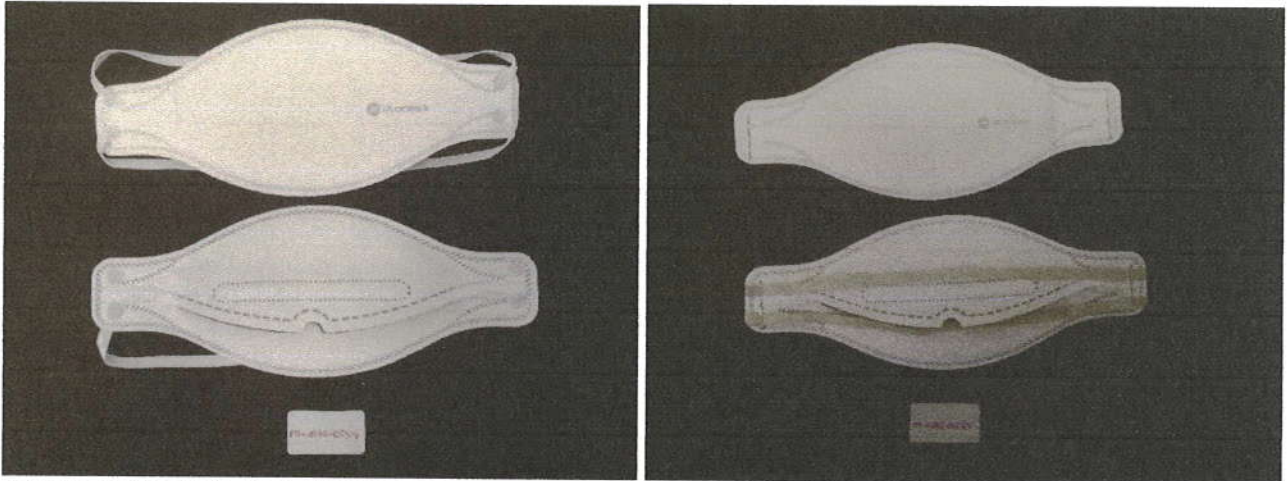
2. PPE INFORMATION:

Disposable and non-sterile half mask made of particulate protection filter material.

3. PPE TYPE IDENTIFICATION

EN 149:2001+A1:2009 Respiratory protective devices – Filtering half masks to protect against particles - Requirements, testing, marking

4. PPE PICTURES



PROTECT PRO F20, PROTECT PRO R20

5. PPE DIMENSIONS:

PROTECT PRO F20, PROTECT PRO R20 model has been found to be produced using standard size.

6. PPE PRODUCT MATERIAL INFORMATION:

The product is made of elastic strap, nonwoven fabric on the outer and inner layers and filter material on the middle layer.

7. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

- A visual inspection was made according to EN 149:2001 +A1:2009 for ergonomics.
- Protection levels and degrees are defined by the manufacturer.
- Suitable construction materials were determined by visual inspection according to EN 149:2001 +A1:2009.

8. ANALYSIS EVALUATION AND MARKING:

EN 149:2001 +A1:2009

TESTS	PARAMETER	PERFORMANCE LEVELS	RESULTS	PERFORMANCE LEVELS	EVALUATION
-------	-----------	--------------------	---------	--------------------	------------

		FFP1	FFP2	FFP3			
Part 7.3 Visual inspection	Shall also the marking and the information supplied by the manufacturer				Appropriate	-	PASS
Banned Azo Dyes	< 30 mg/kg				Not applicable	-	Not applicable
Part 7.4 Packaging	Particle filtering half mask shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.				Appropriate	-	PASS
Part 7.5 Material	When conditioned in accordance 8.3.1 & 8.3.2 the particle filter half mask shall not collapse.				Appropriate	-	PASS
Part 7.6 Cleaning and disinfecting	After cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.				Not applicable	-	Not applicable
Part 7.7 Practical performance	No negative comments should be made by the test subject regarding any of the criteria evaluated.				Appropriate	-	PASS
Part 7.8 Finish of parts	Parts of the device likely to come into contact with the wearer shall have no sharp edge or burrs.				Appropriate	-	PASS

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.9.1 Total inward leakage	At least 46 out of the 50 individual exercise result	≤25	≤11	≤5	See the table below	FFP2	PASS
	At least 8 out of the 10 individual wearer arithmetic means	≤22	≤8	≤2	See the table below	FFP2	PASS

Total Inward Leakage (%)						
	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As received)	2,0	3,9	3,7	4,5	3,1	3,4
Subject 2 (As received)	3,8	3,3	4,3	6,3	4,3	4,4
Subject 3 (As received)	3,5	3,0	4,1	7,0	5,0	4,5
Subject 4 (As received)	4,6	5,0	2,9	6,4	6,6	5,1
Subject 5 (As received)	4,8	2,0	4,1	6,3	4,3	4,3
Subject 6 (After temperature conditioning)	4,2	4,6	1,8	6,8	6,0	4,7
Subject 7 (After temperature conditioning)	4,4	5,2	4,0	4,2	6,3	4,8
Subject 8 (After temperature conditioning)	3,7	4,0	5,2	4,1	5,0	4,4
Subject 9 (After temperature conditioning)	3,6	3,8	3,7	4,2	5,6	4,2

Subject 10 (After temperature conditioning)	4,4	3,6	3,4	5,7	3,7	4,2
---	-----	-----	-----	-----	-----	-----

Subject facial dimensions

Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
1	120	145	105	61
2	128	155	112	68
3	110	128	105	55
4	123	140	133	57
5	116	128	99	58
6	120	130	91	56
7	138	151	119	65
8	110	130	96	55
9	120	131	85	58
10	135	142	125	83

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.9.2 Penetration of filter material	Sodium chloride, 95 L/min %, max	% 20	% 6	% 1	See the table below	FFP2	PASS
	Paraffin oil, 95 L/min %, max	% 20	% 6	% 1	See the table below	FFP2	PASS

Penetration of filter material	Sodium Chloride (%)	Paraffin Oil (%)
As received	1,4	1,7
As received	1,5	1,5
As received	1,3	1,9
After the simulated wearing treatment	1,5	1,7
After the simulated wearing treatment	1,2	1,6
After the simulated wearing treatment	1,2	1,5
Mechanical strength and temperature conditioning (120 mg)	1,9	2,2
Mechanical strength and temperature conditioning (120 mg)	2,1	2,1
Mechanical strength and temperature conditioning (120 mg)	1,9	2,3

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.10 Compatibility with skin	Materials shall not be known to be likely to cause irritation or any other adverse effect to health				Appropriate	-	PASS
Part 7.11 Flammibility	Mask shall not burn or not to continue to burn for more than 5 s				Flame not seen	-	PASS
Part 7.12 Carbondioxide content of the inhalation air	Shall not exceed an average of % 1				0,70 0,77 0,78	-	PASS
Part 7.13	It can be donned and removed easily				Appropriate	-	PASS

Head harness				
Part 7.14 Field of vision	The field of vision shall acceptable in practical performance test.	Appropriate	-	PASS
Part 7.15 Exhalation valve(s)	It shall withstand axially a tensile force of 10 N apply for 10 s. If fitted, shall continue to operate correctly after a continuous exhalation flow of 300 L/min over a period of 30 s.	Not applicable	-	Not applicable

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.16 Breathing Resistance	Inhalation 30L/min	0,6 mbar	0,7 mbar	1,0 mbar	See the table below	FFP2	PASS
	Inhalation 95L/min	2,1 mbar	2,4 mbar	3,0 mbar	See the table below	FFP2	PASS
	Exhalation 160L/min	3,0 mbar	3,0 mbar	3,0 mbar	See the table below	FFP2	PASS

Breathing Resistance (mbar)	Inhalation 30L/min	Inhalation 95L/min
As received	0,4	1,2
As received	0,4	1,3
As received	0,3	1,3
After temperature conditioning	0,3	1,2
After temperature conditioning	0,4	1,2
After temperature conditioning	0,4	1,3
After the simulated wearing treatment	0,3	1,2
After the simulated wearing treatment	0,3	1,3
After the simulated wearing treatment	0,3	1,3

Breathing Resistance 160L/min (mbar)	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As received	2,2	2,2	2,3	2,3	2,3
As received	2,3	2,3	2,3	2,3	2,2
As received	2,2	2,2	2,2	2,2	2,2
After temperature conditioning	2,3	2,3	2,2	2,3	2,3
After temperature conditioning	2,3	2,3	2,3	2,3	2,3
After temperature conditioning	2,2	2,2	2,3	2,2	2,3
After the simulated wearing treatment	2,2	2,3	2,3	2,3	2,2
After the simulated wearing treatment	2,2	2,2	2,2	2,2	2,2
After the simulated wearing treatment	2,3	2,3	2,3	2,3	2,3

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.17 Clogging	After clogging the inhalation resistances shall	4 mbar	5 mbar	7 mbar	Not applicable	-	Not applicable

	not exceed. (valved)						
	The exhalation resistance shall not exceed 3 mbar at 160 L/ min continuous flow. (valved)				Not applicable	-	Not applicable
	After clogging the inhalation and exhalation resistances shall not exceed. (valveless)	3 mbar	4 mbar	5 mbar	Not applicable	-	Not applicable
Part 7.18 Demountable part	All demountable parts (if fitted) shall be readily connected and secured were possible by hand.				Not applicable	-	Not applicable
Part 9 Marking	The packaging information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.				Appropriate	-	PASS

9. DECISION PROPOSAL

Analysis and examinations PROTECT PRO F20, PROTECT PRO R20 model coded personal protective equipment; Respiratory Protective Devices EN 149:2001 +A1:2009- Filtered Half Masks for Protection Against Particles - Properties, Experiments and Marking standards are evaluated. It is recommended to be certified at the performance levels specified as a result of technical evaluations.

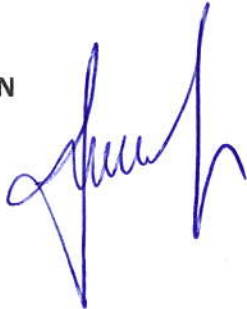
10. ATTACHMENTS

- Basic Health Safety Requirements
- Risk Assessment
- Test Report (M-2022-0555, M-2022-0554)
- User Instruction

CONTROLLER : VOLKAN AKIN

SIGNATURE :

DATE : 04.08.2022



MNA LABORATORY ANALYSIS REPORT

Report Nu. : M-2022-0554	Date : 2022-08-04 10:53:40	Page : 1 / 5	Rev:
--------------------------	----------------------------	--------------	------

Purpose of Analysis	: Special request
Sample Send Org.	: i-Access Protect GmbH
Address	: Riegeler Straße 14
Sample Acceptance Date	: 2022-07-06 17:22:44
Analysis Date	: 2022-07-07 09:00:08
Sample Quantity	: 80 Pieces
Sample Description	: PROTECT PRO F20
Other informations	:

Penetration Of Filter Material

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Penetration Of Filter Material	Check the table.	FFP1 \leq 20 FFP2 \leq 6 FFP3 \leq 1	EN 149+A1 Part 8.11, EN 13274-7	PASS (FFP2)	-

	Sodium Chloride (%)	Paraffin Oil (%)
As received 1	1,4	1,7
As received 2	1,5	1,5
As received 3	1,3	1,9
After the simulated wearing treatment 1	1,5	1,7
After the simulated wearing treatment 2	1,2	1,6
After the simulated wearing treatment 3	1,2	1,5
Mechanical strength and temperature conditioning (120 mg) 1	1,9	2,2
Mechanical strength and temperature conditioning (120 mg) 2	2,1	2,1
Mechanical strength and temperature conditioning (120 mg) 3	1,9	2,3

Carbon Dioxide Content Of The Inhalation Air

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Carbon Dioxide Content Of The Inhalation Air	Check the table.	Maximum %1	EN 149+A1 Part 8.7	PASS (FFP2)	-

MNA LABORATORY ANALYSIS REPORT

Report Nu. : M-2022-0554	Date : 2022-08-04 10:53:40	Page : 2 / 5	Rev:
--------------------------	----------------------------	--------------	------

	CO2 (%)
Sample 1	0,7
Sample 2	0,77
Sample 3	0,78

Total Inward Leakage

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Total Inward Leakage	Check the table.	See the limits table.	EN 149+A1 Part 8.5	PASS (FFP2)	-

	At least 46 out of the 50 individual exercise result shall be not greater than	At least 8 out of the 10 individual wearer arithmetic means shall be not greater than
FFP1	≤25	≤22
FFP2	≤11	≤8
FFP3	≤5	≤2

	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As received)	2,0	3,9	3,7	4,5	3,1	3,4
Subject 2 (As received)	3,8	3,3	4,3	6,3	4,3	4,4
Subject 3 (As received)	3,5	3,0	4,1	7,0	5,0	4,5
Subject 4 (As received)	4,6	5,0	2,9	6,4	6,6	5,1
Subject 5 (As received)	4,8	2,0	4,1	6,3	4,3	4,3
Subject 6 (After temperature conditioning)	4,2	4,6	1,8	6,8	6,0	4,7
Subject 7 (After temperature conditioning)	4,4	5,2	4,0	4,2	6,3	4,8
Subject 8 (After temperature conditioning)	3,7	4,0	5,2	4,1	5,0	4,4
Subject 9 (After temperature conditioning)	3,6	3,8	3,7	4,2	5,6	4,2
Subject 10 (After temperature conditioning)	4,4	3,6	3,4	5,7	3,7	4,2

MNA LABORATORY ANALYSIS REPORT

Report Nu. : M-2022-0554	Date : 2022-08-04 10:53:40	Page : 3 / 5	Rev:
conditioning)			

Breathing Resistance

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Breathing Resistance	Check the table.	See the limits table.	EN 149+A1 Part 8.9	PASS (FFP2)	-

Classification	30 L/min max basınç (mbar)	95 L/min max basınç (mbar)	160 L/min max basınç (mbar)
FFP1	0,6	2,1	3,0
FFP2	0,7	2,4	3,0
FFP3	1,0	3,0	3,0

Inhalation	30 L/min	95 L/min
As received 1	0,4	1,2
As received 2	0,4	1,3
As received 3	0,3	1,3
After temperature conditioning 1	0,3	1,2
After temperature conditioning 2	0,4	1,2
After temperature conditioning 3	0,4	1,3
After the simulated wearing treatment 1	0,3	1,2
After the simulated wearing treatment 2	0,3	1,3
After the simulated wearing treatment 3	0,3	1,3
After the flow conditioning 1	-	-
After the flow conditioning 2	-	-
After the flow conditioning 3		

Exhalation 160L/min	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As received 1	2,2	2,2	2,3	2,3	2,3
As received 2	2,3	2,3	2,3	2,3	2,2
As received 3	2,2	2,2	2,2	2,2	2,2
After temperature conditioning 1	2,3	2,3	2,2	2,3	2,3
After temperature	2,3	2,3	2,3	2,3	2,3

MNA LABORATORY ANALYSIS REPORT

Report Nu. : M-2022-0554	Date : 2022-08-04 10:53:40	Page : 4 / 5	Rev:
--------------------------	----------------------------	--------------	------

conditioning 2					
After temperature conditioning 3	2,2	2,2	2,3	2,2	2,3
After the simulated wearing treatment 1	2,2	2,3	2,3	2,3	2,2
After the simulated wearing treatment 2	2,2	2,2	2,2	2,2	2,2
After the simulated wearing treatment 3	2,3	2,3	2,3	2,3	2,3
After the flow conditioning 1	-	-	-	-	-
After the flow conditioning 2	-	-	-	-	-
After the flow conditioning 3					

Flammability

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Flammability	No flame seen.	Shall not burn for more than 5 sec after removal from the flame	EN 13274-4	PASS	-

MNA LABORATORY ANALYSIS REPORT

Report Nu. : M-2022-0554	Date : 2022-08-04 10:53:40	Page : 5 / 5	Rev:
--------------------------	----------------------------	--------------	------

Operating as a test laboratory, MNA Laboratories is accredited by TÜRKAK according to AB-1183-T and TS_EN_ISO/IEC_17025:2017 standards has been done. A multilateral agreement with the European Accreditation Association (EA) on the recognition of the Turkish Accreditation Agency (TÜRKAK) test reports and It has signed a mutual recognition agreement with the International Laboratory Accreditation Association (ILAC).

*The analysis is within the scope of accreditation.

Note :

1. No part of this analysis report may be used alone or separately and may be partially copied or reproduced without the written permission of the laboratory. It cannot be reproduced, used by third parties or as a means of advertising.
2. Analysis results are valid for the sample sent and analyzed by the company/institution/individual to MNA Laboratories. represent the whole may not.
3. Unsigned and Unsealed reports are invalid.
4. This analysis report cannot be used in judicial-administrative proceedings and for advertising purposes.
5. Results are valid for the sample received.
6. A decision rule is a rule that determines how measurement uncertainty is to be taken into account when specifying compliance with a specified specification. TLM-052 Decision Rule According to the implementation instruction, the decision rule chosen in agreement with the customer will be applied if necessary.
7. Limit Values are determined by taking from analysis methods.
8. The laboratory is not responsible if the information provided by the CUSTOMER affects the validity of the results.
9. Test and / or measurement results, expanded measurement uncertainties (if any) and test methods are given in the following pages, which are the supplementary part of this certificate.
10. Water Repellency Determination Hydrostatic Pressure Determination T S ISO 811 (Hydrostatic Pressure Tester E / N: 53) Analysis, Seam Strength EN ISO 13965-2 (Strength Test Device E / N: 50) Analysis and resistance to liquid chemical permeation TS EN 659 -A1 Part 3.18 (Liquid Chemical Transfer Device E / N: 107) Analysis is carried out in the conditioning room and ISO 139 PART 3.2 conditions (23 ± 2 ° C temperature and $50 \pm 4\%$ relative humidity) are applied for ambient conditions.

Selin Gergin

Sample Acceptance and Reporting Officer

2022-08-04 09:44:53

Erhan Üstünel

Laboratory Responsible

2022-08-04 08:59:00



VOLKAN AKIN
Laboratory Manager
2022-08-04 09:48:49



MNA LABORATORY ANALYSIS REPORT

Report Nu. : M-2022-0555	Date : 2022-08-04 10:53:29	Page : 1 / 5	Rev:
--------------------------	----------------------------	--------------	------

Purpose of Analysis	: Special request
Sample Send Org.	: i-Access Protect GmbH
Address	: Riegeler Straße 14
Sample Acceptance Date	: 2022-07-06 17:23:49
Analysis Date	: 2022-07-07 09:00:13
Sample Quantity	: 80 Pieces
Sample Description	: PROTECT PRO R20
Other informations	:

Breathing Resistance

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Breathing Resistance	Check the table.	See the limits table.	EN 149+A1 Part 8.9	PASS (FFP2)	-

Classification	30 L/min max basınç (mbar)	95 L/min max basınç (mbar)	160 L/min max basınç (mbar)
FFP1	0,6	2,1	3,0
FFP2	0,7	2,4	3,0
FFP3	1,0	3,0	3,0

Inhalation	30 L/min	95 L/min
As received 1	0,3	1,3
As received 2	0,3	1,4
As received 3	0,4	1,4
After temperature conditioning 1	0,4	1,4
After temperature conditioning 2	0,4	1,3
After temperature conditioning 3	0,4	1,3
After the simulated wearing treatment 1	0,4	1,4
After the simulated wearing treatment 2	0,4	1,3
After the simulated wearing treatment 3	0,3	1,3
After the flow conditioning 1	-	-
After the flow conditioning 2	-	-
After the flow conditioning 3	-	-

MNA LABORATORY ANALYSIS REPORT

Report Nu. : M-2022-0555	Date : 2022-08-04 10:53:29	Page : 2 / 5	Rev:
--------------------------	----------------------------	--------------	------

Exhalation 160L/min	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As received 1	2,3	2,3	2,3	2,3	2,3
As received 2	2,3	2,3	2,3	2,3	2,2
As received 3	2,3	2,2	2,3	2,2	2,3
After temperature conditioning 1	2,2	2,3	2,2	2,3	2,3
After temperature conditioning 2	2,3	2,3	2,2	2,3	2,2
After temperature conditioning 3	2,3	2,2	2,3	2,2	2,3
After the simulated wearing treatment 1	2,3	2,3	2,3	2,3	2,2
After the simulated wearing treatment 2	2,2	2,2	2,2	2,2	2,2
After the simulated wearing treatment 3	2,2	2,3	2,2	2,3	2,3
After the flow conditioning 1	-	-	-	-	-
After the flow conditioning 2	-	-	-	-	-
After the flow conditioning 3					

Total Inward Leakage

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Total Inward Leakage	Check the table.	See the limits table.	EN 149+A1 Part 8.5	PASS (FFP2)	-

	At least 46 out of the 50 individual exercise result shall be not greater than	At least 8 out of the 10 individual wearer arithmetic means shall be not greater than
FFP1	≤25	≤22
FFP2	≤11	≤8
FFP3	≤5	≤2

	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As received)	1,9	3,8	3,6	4,4	3,0	3,3
Subject 2 (As received)	3,7	3,2	4,2	6,2	4,2	4,3

MNA LABORATORY ANALYSIS REPORT

Report Nu. : M-2022-0555	Date : 2022-08-04 10:53:29	Page : 3 / 5	Rev:
--------------------------	----------------------------	--------------	------

received)						
Subject 3 (As received)	3,4	2,9	4,0	6,9	4,9	4,4
Subject 4 (As received)	4,5	4,9	2,8	6,3	6,5	5,0
Subject 5 (As received)	4,7	1,9	4,0	6,2	4,2	4,2
Subject 6 (After temperature conditioning)	4,1	4,5	1,7	6,7	5,9	4,6
Subject 7 (After temperature conditioning)	4,3	5,1	3,9	4,1	6,2	4,7
Subject 8 (After temperature conditioning)	3,6	3,9	5,1	4,0	4,9	4,3
Subject 9 (After temperature conditioning)	3,5	3,7	3,6	4,1	5,5	4,1
Subject 10 (After temperature conditioning)	4,3	3,5	3,3	5,6	3,6	4,1

Carbon Dioxide Content Of The Inhalation Air

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Carbon Dioxide Content Of The Inhalation Air	Check the table.	Maximum %1	EN 149+A1 Part 8.7	PASS (FFP2)	-

	CO2 (%)
Sample 1	0,72
Sample 2	0,74
Sample 3	0,71

Penetration Of Filter Material

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Penetration Of Filter Material	Check the table.	FFP1 \leq 20 FFP2 \leq 6 FFP3 \leq 1	EN 149+A1 Part 8.11, EN 13274-7	PASS (FFP2)	-

**MNA LABORATORY
ANALYSIS REPORT**

Report Nu. : M-2022-0555	Date : 2022-08-04 10:53:29	Page : 4 / 5	Rev:
--------------------------	----------------------------	--------------	------

	Sodium Chloride (%)	Paraffin Oil (%)
As received 1	1,0	1,1
As received 2	1,0	1,1
As received 3	1,0	1,0
After the simulated wearing treatment 1	1,2	1,2
After the simulated wearing treatment 2	1,2	1,2
After the simulated wearing treatment 3	1,3	1,4
Mechanical strength and temperature conditioning (120 mg) 1	1,8	1,9
Mechanical strength and temperature conditioning (120 mg) 2	1,7	1,8
Mechanical strength and temperature conditioning (120 mg) 3	1,8	1,9

Flammability

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Flammability	No flame seen.	Shall not burn for more than 5 sec after removal from the flame	EN 13274-4	PASS	-

MNA LABORATORY ANALYSIS REPORT

Report Nu. : M-2022-0555	Date : 2022-08-04 10:53:29	Page : 5 / 5	Rev:
--------------------------	----------------------------	--------------	------

Operating as a test laboratory, MNA Laboratories is accredited by TÜRKAK according to AB-1183-T and TS_EN_ISO/IEC_17025:2017 standards has been done. A multilateral agreement with the European Accreditation Association (EA) on the recognition of the Turkish Accreditation Agency (TÜRKAK) test reports and It has signed a mutual recognition agreement with the International Laboratory Accreditation Association (ILAC).

*The analysis is within the scope of accreditation.

Note :

1. No part of this analysis report may be used alone or separately and may be partially copied or reproduced without the written permission of the laboratory. It cannot be reproduced, used by third parties or as a means of advertising.
2. Analysis results are valid for the sample sent and analyzed by the company/institution/individual to MNA Laboratories. represent the whole may not.
3. Unsigned and Unsealed reports are invalid.
4. This analysis report cannot be used in judicial-administrative proceedings and for advertising purposes.
5. Results are valid for the sample received.
6. A decision rule is a rule that determines how measurement uncertainty is to be taken into account when specifying compliance with a specified specification. TLM-052 Decision Rule According to the implementation instruction, the decision rule chosen in agreement with the customer will be applied if necessary.
7. Limit Values are determined by taking from analysis methods.
8. The laboratory is not responsible if the information provided by the CUSTOMER affects the validity of the results.
9. Test and / or measurement results, expanded measurement uncertainties (if any) and test methods are given in the following pages, which are the supplementary part of this certificate.
10. Water Repellency Determination Hydrostatic Pressure Determination T S ISO 811 (Hydrostatic Pressure Tester E / N: 53) Analysis, Seam Strength EN ISO 13965-2 (Strength Test Device E / N: 50) Analysis and resistance to liquid chemical permeation TS EN 659 -A1 Part 3.18 (Liquid Chemical Transfer Device E / N: 107) Analysis is carried out in the conditioning room and ISO 139 PART 3.2 conditions (23 ± 2 ° C temperature and $50 \pm 4\%$ relative humidity) are applied for ambient conditions.

Selin Gergin

Sample Acceptance and Reporting Officer

2022-08-04 09:44:43

Erhan Üstünel

Laboratory Responsible

2022-08-04 09:16:37



VOLKAN AKIN
Laboratory Manager
2022-08-04 09:49:28

