

MODÜL C2 - ÜRETİMİN DÂHİLÎ KONTROLÜ VE ÜRÜNÜN RASTGELE ARALIKLARLA DENETİMLİ MUAYENESİNE DAYALI TİPE UYGUNLUK

Belge No / Certificate No
Belgelendirme Tarihi - Bir Sonraki Belge Tarihi /
Certification Date / Certificate Validity Date
Belge Geçerlilik Tarihi / Document Validity Period
Firma Unvanı ve Adresi /
Company Name and Address

: 62090763

: 10.11.2022-10.11.2023

: 1 yıl / 1 year

Marka / Model / Brand / Model
Direktifi / Directive
Modülü/Kategori / Module / Category

: AFŞARLAR İŞ ELBİSELERİ İŞ GÜVENLİĞİ EKİP. SAN. VE TİC. LTD. ŞTİ Emek Mah. Atatürk Cad. 14/B Sancaktepe, İstanbul

: SX96

: 2016/425 REGULATION

: C2 MODÜLÜ/ KATEGORİ III MODULE C2 / CATEGORY III

Teknik Değerlendirme Rapor No/ Technical Evaluation Report No Ürün Tipi / Product Type:

: 62090763

- 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: SX96 model ürünleri kumaş, elastik kayış, burun klipsi ve filtre katmanı kullanılarak imal edilmiştir. / SX96 model products are manufactured using fabric, elastic strap, nose clip, filter layer.

Volkan AKIN 10.11.2022 Karar Verici / Approver Okan AKEL 10.11.2022 Şirket Müdürü / General manager











(MODULE C2, ANNEX VII) (62090763)

Report No

: 62090763

Report Date

: 10.11.2022

**Application No** 

: 62090763

#### 1. COMPANY INFORMATION:

AFŞARLAR İŞ ELBİSELERİ İŞ GÜVENLİĞİ EKİP. SAN. VE TİC. LTD. ŞTİ

Emek Mah. Atatürk Cad. 14/B Sancaktepe, İstanbul

Tel: 0216 318 86 58 Mail:info@afsarlar.com

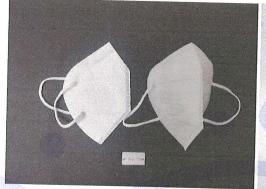
#### 2. PPE INFORMATION:

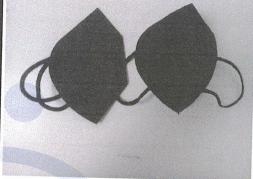
Disposable and non-sterile half mask made of particulate protection fitler material.

#### 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





SX96(Black, White)

#### 5. PPE DIMENSIONS:

SX96(Black, White) model has been found to be produced using standard sizes.

## 6. PPE PRODUCT MATERIAL INFORMATION:

The mask is made of elastic strap, nonwoven fabric on the outer and inner layers and fitler 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	TESTS PARAMETER		DRMANCE	RESULTS	PERFORMANC EVALUATI		
		LEVEL	S	1133213	E LEVELS		
	FFP1	FFP2 FFP3		E LEVELS N	IN .		
U-FRM-056.REV.0	1 /18 03 2022	(g)P					



(MODULE C2, ANNEX VII) (62090763)

Part 7.3	Chall al II		63)	
Visual inspection	Shall also the marking and the information supplied by the manufacturer	Appropriate	-	PASS
Banned Azo Dyes	< 30 mg/kg	< 5 mg/kg		PASS
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	w	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 Inwar	d Leakage (	%)			
	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As received)	6,9	7,1	6,9	7,7	6,3	7,0
Subject 2 (As received)	7,0	6,5	7,5	7,6	7,5	7,0
Subject 3 (As received)	6,7	6,2	7,3	7,3	8,2	7,1
Subject 4 (As received)	7,8	8,2	6,1	8,8	8,3	7,1
Subject 5 (As received)	8,0	5,2	7,3	9,5	7,5	7,5
Subject 6 (After temperature conditioning)	7,4	7,8	5,0	7,7	7,7	
Subject 7 (After temperature conditioning)	7,6	8,4	7,2	7,4	8,1	7,1
Subject 8 (After temperature conditioning)	6,9	7,2	8,4	9,1	8,2	7,7
Subject 9 (After temperature conditioning)	6,8	7,0	6,9	8,6	8,8	8,0
Subject 10 (After temperature conditioning)	7,6	6,8	6,6	8,9	6,9	7,6 7,4



(MODULE C2, ANNEX VII) (62090763)

### Subject facial dimensions

Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
1	133	132	132	65
2	125	144	116	67
3	126	135	124	75
4	123	133	134	74
5	117	135	122	73
6	122	142	133	66
7	113	132	114	75
8	135	123	123	65
9	122	135	133	74
10	135	142	125	83

TESTS PARAMETER		PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS		EVALUATION
		FFP1	FFP2	FFP3				
Part 7.9.2	Sodium chloride, 95	% 20	%6	%1	See the table	FFP2		PASS
Penetration	L/min				below			17.00
of filter	%, max					ia.		
material	Paraffin oil, 95 L/min	% 20	%6	%1	See the table	FFP2	V-1	PASS
	%, max				below			8
Penetration of	of filter material				Sodium Chl	oride (%)	Par	affin Oil (%)
As received						2,8	1	2,9
As received		48				2,7		2,7
As received			HEERLY.			2,5		
After the simi	ulated wearing treatmen	t				2,8	-	2,5
	ulated wearing treatmen				***************************************			3,0
	ulated wearing treatmen			<b>*</b>	***************************************	2,6		2,9
						2,7		2,8
Mechanicarst	rength and temperature	conditi	oning			5,0		5,4
	rength and temperature			THE		5,1		5,6
Mechanical st	rength and temperature	condition	oning			5,1	-	5,6

TESTS	PARAMETER PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION	
		FFP1 FFP2	FFP3				
Part 7.10 Compatibility with skin	Materials shall not cause irritation or a health			Appropriate	-	PASS	
Part 7.11 Flammibility	Mask shall not burn for more than 5 s	or not to continue	to burn	Flame not	-	PASS	
Part 7.12 Carbondioxide content of the inhalation air	Shall not exceed an	average of % 1		0,73 0,76 0,75	-	PASS	
Part 7.13 Head harness	It can be donned an	d removed easily		Appropriate	-	PASS	



Notified Body Number: 2841

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Part 7.14	The field of the Lui	21 211/ (02050	, 00	
Field of vision	The field of vision shall acceptable in practical performance test.	Appropriate	ua.	PASS
Part 7.15 Exhalation	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

TESTS	PARAMETER	PERFORMANCE LEVELS		112002.0		PERFORMANCE LEVELS	EVALUATION
	FFP1	FFP2	FFP3				
Part 7.16 Breathing	Inhalation 30L/min	0,6 mbar	0,7 mbar	1,0 mbar	See the table below	FFP2	PASS
Resistance	Inhalation 95L/min	2,1	2,4	3,0	See the table	FFP2	PASS
		mbar	mbar	mbar	below		
	Exhalation	3,0	3,0	3,0	See the table	FFP2	PASS
	160L/min	mbar	mbar	mbar	below		

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

TESTS	PARAMETER	DEDECORRANICE			
. 23.3	PANAIVIETEN	PERFORMANCE	RESULTS	PERFORMANCE	EVALUATION
		LEVELS		LEVELS	1/
		FFP1 FFP2 FFP3			



Notified Body Number: 2841

(MODULE C2, ANNEX VII) (62090763)

Part 7.17	A.C. 1	"	7		11421 011/ 1020	30703)	
	After clogging the	4	5	7	Not applicable	100	Not applicable
Clogging	inhalation	mba	mba	mbar			Not applicable
	resistances shall	r	r				
	not exceed.						,
	(valved)					*	
	The exhalation resist	ance st	all not				
	3 mbar at 160 L/ r				Not applicable	-	Not applicable
	(valved)	mii coi	iunuou	s flow.			
-			T				
	After clogging the	3	4	5	Not applicable	Rai	Not applicable
	inhalation and	mba	mba	mbar			approdict.
	exhalation	r	r				, e
	resistances shall						
	not exceed.						
	(valveless)						
Part 7.18	All demountable par	ts (if fi	tted) sk	all be	Not applicable		
Demountable	readily connected	and so	ecured	Were	Mot applicable	-	Not applicable
part	possible by hand.  The packaging information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is			WCIC			is .
Part 9				Appropriate	and discuss the second of the Artist Spirit Spread and the Rose second and provinces described and a second and the second and		
Marking				Appropriate	-	PASS	
					*		
	transparent.		Packagi	118 13			e
9. DECISION							

#### DECISION

Analysis and examinations SX96 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. The homogeneity of the production was monitored at the performance levels determined as a result of the technical evaluations made within the scope of MODULE C2.

#### **10. ATTACHMENTS**

- **Basic Health Safety Requirements**
- Risk Assessment
- Test Reports (M-2022-0786, M-2022-0877)
- **User Instruction**

CONTROLLER

: VOLKAN AKIN

**SIGNATURE** 

DATE

: 10.11.2022

U-FRM-056.REV.01./18.03.2022

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Report Nu. : M-2022-0877 Date : 2022-11-10 16:46:36 Page : 1 / 5 Rev:

Purpose of Analysis : Special request

Sample Send Org. : AFŞARLAR İŞ ELBİSELERİ İŞ GÜVENLİĞİ EKİPMANLARI SAN. VE TİC. LTD. ŞTİ."

Address : Emek Mah. Atatürk Cad. 14/B Sancaktepe / İSTANBUL

Sample Acceptance Date : 2022-10-25 13:20:22
Analysis Date : 2022-10-25 14:42:02

Sample Quantity : 120 Pieces
Sample Description : S-X MASK

Other informations :

#### **Penetration Of Filter Material**

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

	Sodium Chloride (%)	Paraffin Oil (%)
As received 1	2,8	2,9
As received 2	2,7	2,7
As received 3	2,5	2,5
After the simulated wearing treatment 1	2,8	3,0
After the simulated wearing treatment 2	2,6	2,9
After the simulated wearing treatment 3	2,7	2,8
Mechanical strength and temperature conditioning (120 mg) 1	5,0	5,4
Mechanical strength and temperature conditioning (120 mg) 2	5,1	5,6
Mechanical strength and temperature conditioning (120 mg) 3	5,1	5,6

#### **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	-



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### **Breathing Resistance**

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
<b>Breathing Resistance</b>	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	1,4	
As received 2	0,3	1,3	
As received 3	0,4	1,3	
After temperature conditioning 1	0,4	1,3	
After temperature conditioning 2	0,4	1,4	
After temperature conditioning 3	0,4	1,3	
After the simulated wearing treatment 1	0,3	1,3	
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	-	-	
fter 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	2,3	2,3	2,2	2,2	2,3
As received 2	2,2	2,3	2,3	2,3	2,3
As received 3	2,2	2,3	2,2	2,3	2,3
After temperature conditioning 1	2,3	2,2	2,2	2,3	2,3
After temperature conditioning 2	2,3	2,2	2,3	2,3	2,2
After temperature conditioning 3	2,2	2,2	2,2	2,3	2,2
After the simulated wearing treatment 1	2,3	2,3	2,2	2,3	2,2

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After the simulated wearing treatment 2	2,3		2,2	2,3	2,2		2,2
After the simulated wearing treatment 3	2,2		2,2	2,2	2,3		2,2
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)	6,9	7,1	6,9	7,7	6,3	7,0
Subject 2 (As received)	7,0	6,5	7,5	7,6	7,5	7,2
Subject 3 (As received)	6,7	6,2	7,3	7,3	8,2	7,1
Subject 4 (As received)	7,8	8,2	6,1	8,8	8,3	7,8
Subject 5 (As received)	8,0	5,2	7,3	9,5	7,5	7,5
Subject 6 (After temperature conditioning)	7,4	7,8	5,0	7,7	7,7	7,1
Subject 7 (After temperature conditioning)	7,6	8,4	7,2	7,4	8,1	7,7
Subject 8 (After temperature conditioning)	6,9	7,2	8,4	9,1	8,2	8,0
Subject 9 (After temperature conditioning)	6,8	7,0	6,9	8,6	8,8	7,6

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Subject 10 (After temperature conditioning)	7,6	6,8		6,6		8,9	6,9		7,4	

#### **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	-

	CO2 (%)
Sample 1	0,73
Sample 2	0,76
Sample 3	0,75



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\*The analysis is within the scope of accreditation.

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- 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 pa ges, 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
- 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 ± 4% relative humidity) are applied for ambient conditions.

Selin Gergin

Sample Acceptance and Reporting Officer

2022-11-10 14:15:29

Erhan Üstünel Laboratory Responsible

2022-11-10 14:03:31

**VOLKAN AKIN** 

Laboratory Manager

2022-11-10 16:42:17

Sun





AB-1183-T

M-2022-0786

11-22

Report Nu.: M-2022-0786 Date: 2022-11-10 14:32:17 Page: 1 / 3 Rev:

Purpose of Analysis : Special request

Sample Send Org. : AFŞARLAR İŞ ELBİSELERİ İŞ GÜVENLİĞİ EKİPMANLARI SAN. VE TİC. LTD. ŞTİ."

Address : Emek Mah. Atatürk Cad. 14/B Sancaktepe / İSTANBUL

Sample Acceptance Date : 2022-09-19 15:32:13
Analysis Date : 2022-09-19 16:41:19

Sample Quantity : 4 Pieces

Sample Description : SX Maske /SX 96

Other informations :

#### **Banned Azo Dyes \***

Tests	Analysis result	Limit Value	Method	Evaluation	Physical Condition
Banned Azo Dyes	Check the table for results.	≤30 mg/kg	EN ISO 14362-1 / EN ISO 17234-1	PASS	-

	<u></u>
CAS No	Substances
92-67-1	4-aminobiphenyl
92-87-5	Benzidine
95-69-2	4-chloro-o-toluidine
91-59-8	2-naphthylamine
97-56-3	o-aminoazotoluene
99-55-8	5-nitro-o-toluidine
106-47-8	4-chloroaniline
615-05-4	2,4-diaminoanisole
101-77-9	4,4-methylenedianiline
91-94-1	3,3-dichlorobenzidine
119-90-4	3,3-dimethoxybenzidine
119-93-7	3,3-dimethylbenzidine
838-88-0	4,4-methylenediotoluidine
120-71-8	p-cresidine
101-14-4	2,2-dichloro-4,4-methylene-dianiline
101-80-4	4,4-oxydianiline
139-65-1	4,4-thiodianiline
95-53-4	o-toluidine
95-80-7	2,4-diaminotoluene





AB-1183-T

M-2022-0786

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137-17-7		2,4,5-trimethylaniline		
90-04-0		o-anisidine		
60-09-3		4-aminoazobenzene		
60-09-3		4-aminoazobenzene		

Part of Sample	Results(mg/kg)
Black T.+Black E.B.	<5





AB-1183-T

AB-1183-T

M-2022-0786

11-22

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- 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
- 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 pa ges, 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  $\pm$  2  $^{\circ}$  C temperature and 50  $\pm$  4% relative humidity) are applied for ambient conditions.

Selin Gergin

Sample Acceptance and Reporting Officer

2022-11-10 14:15:15

Erhan Üstünel **Laboratory Responsible** 

2022-11-10 14:02:32

**VOLKAN AKIN** 

Laboratory Manager

2022-11-10 14:30:03