

CONFORMITY TO TYPE BASED ON INTERNAL PRODUCTION CONTROL PLUS SUPERVISED PRODUCT CHECKS AT RANDOM INTERVALS (MODULE C2)

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 : 162-21-01-R02-01-R02

: 08.02.2022-17.11.2022

: 1 yıl / 1 year

Ürün Adı /Modeller / Product Name / Models Direktifi / Directive Modülü/Kategori / Module / Category

Teknik Değerlendirme Rapor No/ Technical Evaluation Report No Ürün Tipi / Product Type: : ASTEK METAL MEDİKAL YAPI TEKNOLOJİ SAN. TİC. LTD. STİ.

19 Mayıs Mh. Halaskarargazi cdç No:26 Çiftkurt apt. K:7 D:24 Şişli /İSTANBUL

: ARMED AR PRO 2

: 2016/425 REGULATION

: C2 MODÜLÜ/ KATEGORİ III MODULE C2 / CATEGORY III

: MNA 162-21-01-R02-01-R02

- 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: ARMED AR PRO 2 model ürünleri kumaş, elastik kayış, burun klipsi, filtre katmanı kullanılarak imal edilmiştir. / ARMED AR PRO 2 products are manufactured using fabric, elastic strap, nose clip, filter layer.

Revizyon Nedeni / Reason for Revision: Karekod revize edilmistir. / Or code has been revised.

Volkan AKIN 08.02.2022 Karar Verici / Approver Okan AKEL 08.02.2022 Şirket Müdürü / General manager











CONFORMITY TO TYPE BASED ON INTERNAL PRODUCTION CONTROL PLUS SUPERVISED PRODUCT **CHECK AT RANDOM INTERVALS**

Notified Body Number: 2841 (MODULE C2, ANNEX VII) (162-21-01-R02-01-R02)

Report No

: 162-21-01-R02-01-R02

Report Date

: 08.02.2022

Application No

: 162-21-01-R02-01-R02

1. COMPANY INFORMATION:

ASTEK METAL MEDİKAL YAPI TEKNOLOJİ SAN. TİC. LTD. ŞTİ.

19 Mayıs Mh. Halaskarargazi cdç No:26 Çiftkurt apt. K:7 D:24 Şişli /İSTANBUL

2. PPE INFORMATION:

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

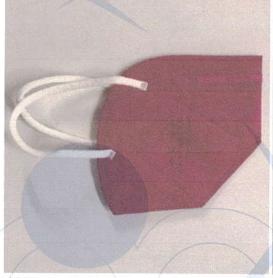
3. PPE TYPE IDENTIFICATION

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

4. PPE PICTURES









ARMED AR PRO 2

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5. PPE DIMENSIONS:

ARMED AR PRO 2 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 AND EVALUATIONS:

EN 149:2001 +A1:2009

TESTS	PARAMETER	PERFC LEVELS	RMAN S	CE	RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3		A The second of the second of	
Banned Azo Dyes	< 30 mg/kg				<5 mg/kg	-	PASS
Part 7.3 Visual inspection	Shall also the marking supplied by the man			mation	Appropriate	-	PASS
Part 7.4 Packaging	for sale packaged in are protected again	cle filtering half mask shall be offered ale packaged in such a way that they protected against mechanical damage ontamination before use.				-	PASS
Part 7.5 Material		tioned in accordance 8.3.1 & ticle filter half mask shall not			Appropriate	-	PASS
Part 7.6 Cleaning and disinfecting	After cleaning and diparticle filtering half penetration require class.	f mask sh	nall sati	sfy the	Not applicable	-	Not applicable
Part 7.7 Practical performance	111111100	nments should be made by regarding any of the criteria			Appropriate	-	PASS
Part 7.8 Finish of parts		vice likely to come into vearer shall have no sharp			Appropriate		PASS
TESTS	PARAMETER PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION	
f*		FFP1	FFP2	FFP3			



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

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



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

TESTS	PARAMETER	PARAMETER PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION	
		FFP1	FFP2	FFP3		55.55.55.5		
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 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			0,88 0,80 0,82	-	PASS		
Part 7.13 Head harness	It can be donned and	d remove	d easily		Appropriate	-	PASS	
Part 7.14 Field of vision	The field of vision sh performance test.	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 PAF	PARAMETER	PERFORMANCE LEVELS		RESULTS	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 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	0,6	1,9	
As received	0,6	1,9	
As received	0,6	1,8	
After temperature conditioning	0,5	1,8	
After temperature conditioning	0,5	1,8	



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After temperature conditioning	0,5	1,8
After the simulated wearing treatment	0,5	1,8
After the simulated wearing treatment	0,6	1.9
After the simulated wearing treatment	0,5	1,9

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	2,8	2,9	2,8	2,9	2,9
As received	2,9	2,9	2,8	2,9	2,9
As received	2,8	2,8	2,8	2,8	2,9
After temperature conditioning	2,9	2,9	2,9	2,9	2,8
After temperature conditioning	2,9	2,8	2,9	2,8	2,9
After temperature conditioning	2,9	2,9	2,8	2,9	2,9
After the simulated wearing treatment	2,8	2,8	2,9	2,9	2,8
After the simulated wearing treatment	2,9	2,8	2,8	2,9	2,9
After the simulated wearing treatment	2,9	2,9	2,9	2,9	2,8

TESTS	PARAMETER	PERFO	ORMAN .S	CE	RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.17 Clogging	After clogging the inhalation resistances shall not exceed. (valved)	4 mba r	5 mba r	7 mbar	Not applicable	-	Not applicable
	The exhalation resist 3 mbar at 160 L/ r (valved)				Not applicable		Not applicable
	After clogging the inhalation and exhalation resistances shall not exceed. (valveless)	3 mba r	4 mba r	5 mbar	Not applicable	-	Not applicable
Part 7.18 Demountable part	All demountable par readily connected possible by hand.				Not applicable	-	Not applicable

9. DECISION

Analysis and examinations ARMED AR PRO 2 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.



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10. ATTACHMENTS

- Basic Health Safety Requirements
- Risk Assessment
- Test Reports (M-2021-01634)
- **User Instruction**

Reason for Revision

: Qr code has been revised.

CONTROLLER

: VOLKAN AKIN

SIGNATURE

DATE

: 08.02.2022