

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

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

Belge No / Certificate No : 73013043
**Belgelendirme Tarihi - Bir Sonraki Belge Tarihi /
Certification Date / Certificate Validity Date** : 03.02.2025-03.02.2026
Belge Geçerlilik Tarihi / Document Validity Period : 1 yıl / 1 years
**Firma Unvanı ve Adresi /
Company Name and Address** : MFA İŞ GÜVENLİĞİ MEDİKAL A.Ş.
Elvanpazarcık Beldesi Hayat Mah. Baruthane
Caddesi No:21/1, 67990 Merkez- Zonguldak
Marka /Modeller / Brand / Models : ZAGOR/ MOHAWK 8200, MOHAWK 8250
Direktifi / Directive : 2016/425 REGULATION
Modülü/Kategori / Module / Category : MODÜL C2/ KATEGORİ III
MODULE C2 / CATEGORY III
**Teknik Değerlendirme Rapor No/
Technical Evaluation Report No** : MNA 73013043

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: ZAGOR MOHAWK 8200, ZAGOR MOHAWK
8250 model ürünleri kumaş, elastik kayış, soluk verme valfi, burun klipsi ve filtre katmanı kullanılarak imal
edilmiştir./ ZAGOR MOHAWK 8200, ZAGOR MOHAWK 8250 model products are manufactured using fabric,
elastic strap, nose clip, exhalation valve and filter layer.

Karar Verici / Approver **Şirket Müdürü / General Manager**



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U-Form-002/Rev.07/03.07.2024

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**CONFORMITY TO TYPE BASED ON INTERNAL
PRODUCTION CONTROL PLUS SUPERVISED PRODUCT
CHECK AT RANDOM INTERVALS
(MODULE C2, ANNEX VII) (73013043)**

Report No : 73013043

Report Date : 03.02.2025

Application No : 73013043

1. COMPANY INFORMATION:

MFA İŞ GÜVENLİĞİ MEDİKAL A.Ş.

Elvanpazarcık Beldesi Hayat Mah. Baruthane Caddesi No:21/1, 67990 Merkez- Zonguldak

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 PICTURE



ZAGOR MOHAWK 8200

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ZAGOR MOHAWK 8250

5. PPE DIMENSIONS:

ZAGOR MOHAWK 8200, ZAGOR MOHAWK 8250 model has been found to be produced using standard size.

6. PPE PRODUCT MATERIAL INFORMATION:

The product is made of elastic strap, exhalation valve, 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	Red fabric+Green fabric+Blue fabric +Orange-White fabric, Green-White fabric ,Light Blue fabric < 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



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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

8200

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

8250

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



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

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 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

8200

Penetration of filter material	Sodium Chloride (%)	Paraffin Oil (%)
As received	1,3	1,2
As received	1,3	1,9
As received	1,2	1,8
After the simulated wearing treatment	1,6	1,8
After the simulated wearing treatment	1,5	1,9
After the simulated wearing treatment	1,1	2,0
Mechanical strength and temperature conditioning (120 mg)	2,6	2,9
Mechanical strength and temperature conditioning (120 mg)	2,1	2,8
Mechanical strength and temperature conditioning (120 mg)	2,0	2,9
Clogging (with valve)	0,1	0,1
Clogging (with valve)	0,1	0,2
Clogging (with valve)	0,1	0,2

8250

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



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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				8200 0,52 0,51 0,57 8250 0,55 0,50 0,56	-	PASS
Part 7.13 Head harness	It can be donned and removed easily				Appropriate	-	PASS
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.				Appropriate	-	PASS

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

8200

Breathing Resistance (mbar)	Inhalation 30L/min	Inhalation 95L/min
As received	0,5	1,6
As received	0,5	1,7
As received	0,4	1,7
After temperature conditioning	0,5	1,7
After temperature conditioning	0,5	1,6
After temperature conditioning	0,4	1,6
After the simulated wearing treatment	0,4	1,6
After the simulated wearing treatment	0,4	1,7
After the simulated wearing treatment	0,4	1,7
After the flow conditioning (with valve)	0,5	1,6
After the flow conditioning (with valve)	0,4	1,7
After the flow conditioning (with valve)	0,5	1,6

Breathing Resistance After Clogging (mbar)	Inhalation 95 L/min
Clogging Breathing Resistance (with valve)	1,0
Clogging Breathing Resistance (with valve)	1,0
Clogging Breathing Resistance (with valve)	1,0



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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	1,4	1,4	1,4	1,4	1,3
As received	1,4	1,3	1,4	1,4	1,4
As received	1,4	1,4	1,3	1,4	1,4
After temperature conditioning	1,4	1,3	1,3	1,3	1,3
After temperature conditioning	1,3	1,3	1,3	1,3	1,3
After temperature conditioning	1,3	1,3	1,4	1,3	1,4
After the simulated wearing treatment	1,3	1,4	1,3	1,4	1,3
After the simulated wearing treatment	1,4	1,3	1,4	1,3	1,4
After the simulated wearing treatment	1,3	1,4	1,3	1,4	1,3
After the flow conditioning (with valve)	1,3	1,3	1,3	1,3	1,3
After the flow conditioning (with valve)	1,3	1,3	1,3	1,3	1,3
After the flow conditioning (with valve)	1,4	1,3	1,3	1,3	1,4

Breathing Resistance After Clogging 160 L/min (mbar) Exhalation	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
Clogging Breathing Resistance (with valve)	1,3	1,2	1,2	1,2	1,2
Clogging Breathing Resistance (with valve)	1,3	1,3	1,2	1,3	1,2
Clogging Breathing Resistance (with valve)	1,3	1,2	1,2	1,2	1,2

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

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	2,4	2,4	2,3	2,4
As received	2,4	2,4	2,4	2,4	2,4
As received	2,4	2,4	2,3	2,3	2,3
After temperature conditioning	2,3	2,4	2,4	2,4	2,3
After temperature conditioning	2,3	2,3	2,3	2,3	2,4
After temperature conditioning	2,4	2,3	2,4	2,3	2,3
After the simulated wearing treatment	2,3	2,3	2,3	2,3	2,3
After the simulated wearing treatment	2,4	2,4	2,4	2,4	2,3
After the simulated wearing treatment	2,3	2,4	2,3	2,3	2,4
After the flow conditioning (with valve)	-	-	-	-	-
After the flow conditioning (with valve)	-	-	-	-	-
After the flow conditioning (with valve)	-	-	-	-	-

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TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP 1	FFP 2	FFP3			
Part 7.17 Clogging	After clogging the inhalation resistances shall not exceed. (valved)	4 mbar	5 mbar	7 mbar	1,0 mbar	D	PASS
	The exhalation resistance shall not exceed 3 mbar at 160 L/ min continuous flow. (valved)				1,3 mbar	D	PASS
	After clogging the inhalation and exhalation resistances shall not exceed. (valveless)	3 mbar	4 mbar	5 mbar	-	-	-
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. ATTACHMENTS

- Test Report (M-2024-0274, M-2024-0276, 689-2-23-1, M-2023-0942)

CONTROLLER :

SIGNATURE :

DATE :