

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 : 55-20-01-01

Belgelendirme Tarihi - Bir Sonraki Belge Tarihi /

Certification Date / Certificate Validity Date : 29.04.2021-29.04.2022

Belge Geçerlilik Tarihi / Document Validity Period: 1 yıl / 1 years

Firma Unvanı ve Adresi /

Company Name and Address : Karl Oswald GmbH & Co.KG

Eppelheimer Str. 14, 69115 Heidelberg, Germany

Ürün Adı /Modeller / Product Name / Models : Osv

Direktifi / Directive

Modülü/Kategori / Module / Category

: Osvirol 8000

: M-2021-00562

: 2016/425 REGULATION

: C2 MODÜLÜ/ KATEGORİ III

MODULE C2 / CATEGORY III

Test Rapor No/ları / Test Report No

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: Osvirol 8000 model ürünleri kumaş, kulak kayışı, burun klipsi ve filtre katmanı kullanılarak imal edilmiştir./ Osvirol 8000 model products are manufactured using fabric, ear loop, nose clip, filter layer.

Erhan ÜSTÜNEL 29.04.2021

Okan AKEL 29.04.2021 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) (55-20-01-01)

Report No

: 55-20-01-01

Report Date

: 29.04.2021

Application No

: 55-20-01-01

1. COMPANY INFORMATION:

Karl Oswald GmbH & Co.KG

Eppelheimer Str. 14, 69115 Heidelberg, Germany

Tel: +49 622175583-19 Fax: +49 662175583-619

E-mail: poswald@oswald-online.de

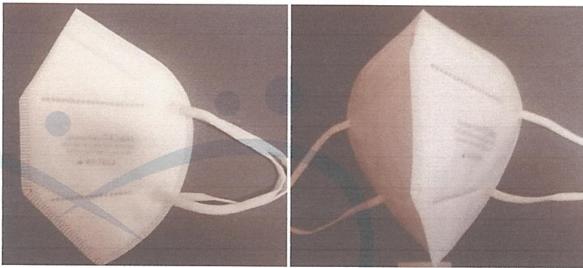
2. PPE INFORMATION:

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



Osvirol 8000

5. PPE DIMENSIONS:

Osvirol 8000 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.



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8. ANALYSIS AND EVALUATIONS: EN 149:2001 +A1:2009

TESTS	PARAMETER	PERFO LEVELS	RMANO S	CE	RESULTS	PERFORMANC E LEVELS	EVALUATIO N	
		FFP1	FFP2	FFP3				
Part 7.3 Visual inspection	Shall also the marking and the information supplied by the manufacturer			rmation	Appropriate	-	PASS	
Banned Azo Dyes	< 30 mg/kg				Not applicable	-	Not applicable	
Part 7.4 Packaging	for sale packaged in	tering half mask shall be offered ackaged in such a way that they cted against mechanical damage mination 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	particle filtering half	After cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant			Not applicable	-	Not applicable	
Part 7.7 Practical performance		ative comments should be made by subject regarding any of the criteria ed.			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	TESTS	PARAMETER	PERFORMANCE LEVELS				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 recieved)	6.6	6.8	8.5	6.4	7.0	7.1				
Subject 2 (As recieved)	7.8	6.7	7.0	5.9	6.8	6.8				
Subject 3 (As recieved)	7.7	8.1	6.6	7.4	7.1	7.4				
Subject 4 (As recieved)	8.2	7.0	7.8	7.1	6.6	7.3				
Subject 5 (As recieved)	7.6	6.6	6.8	6.4	6.9	6.9				
Subject 6 (After temperature conditioning)	7.5	7.9	7.3	5.4	8.5	7.3				



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Subject 7 (After temperature conditioning)	7.0	8.4	6.5	6.9	6.8	7.1
Subject 8 (After temperature conditioning)	5.5	6.8	5.8	6.3	6.2	6.1
Subject 9 (After temperature conditioning)	7.8	8.0	7.2	8.3	8.7	8.0
Subject 10 (After temperature conditioning)	7.0	6.9	7.0	6.5	7.0	6.9

Subject facial dimensions

Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm) 65 67 75 74 73 66
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	PERFC LEVEL	RMAN	CE	RESULTS	PERFORMAN LEVELS	ICE	PASS PASS PASS araffin Oil (%) 3.3 3.6
		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			PASS
Penetration	of filter material				Sodium Chl	oride (%)	Pai	raffin Oil (%)
As recieved						2.7	1	3.3
As recieved						2.5		3.6
As recieved						2.8		3.2
After the sim	ulated wearing treatment	t				3.3		4.3
After the sim	ulated wearing treatment	t				3.7		4.8
After the simulated wearing treatment						3.5		4.6
Mechanical s	trength and temperature		4.9		5.5			
Mechanical strength and temperature conditioning (120 mg)						5.0 5.5		5.5
Mechanical s	trength and temperature	condition	oning (1	20 mg)		5.2		5.3

TESTS	PARAMETER	PERFO	RMANO	E LEVELS	RESULTS	PERFORMANCE	EVALUATION	
		FFP1	FFP2	FFP3		LEVELS		
Part 7.10 Compatibility with skin	Materials shall not cause irritation or a 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	1	PASS		
Part 7.12 Carbondioxide content of the	Shall not exceed an a	average o	f % 1		0,76 0,79 0,78	-	PASS	



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	(IVIODOLL CZ, AIVIVE)	VIII (33-20-0	T-OT)	
inhalation air			1	
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.	Not applicable	-	Not applicable

TESTS PARAMETER	PARAMETER	PERFO	RMANC	E LEVELS	RESULTS	PERFORMANCE	EVALUATION
	FFP1	FFP2	FFP3		LEVELS		
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/	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 recieved	0.5	2,2
As recieved	0.6	2,2
As recieved	0.6	2,1
After temperature conditioning	0.5	2,2
After temperature conditioning	0.6	2,2
After temperature conditioning	0.6	2,2
After the simulated wearing treatment	0.5	2,1
After the simulated wearing treatment	0.6	2,2
After the simulated wearing treatment	0.6	2,1

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



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TESTS	PARAMETER	PERFO	RMANO S	CE	RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.17 Clogging	After clogging the inhalation resistances shall not exceed. (valved)	4 mbar	5 mbar	7 mbar	Not applicable	-	Not applicable
	The exhalation resist 3 mbar at 160 L/ (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 par readily connected possible by hand.		tted) si ecured		Not applicable	-	Not applicable

DECISION

Analysis and examinations Osvirol 8000 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-2021-00562)
- User Instruction

CONTROLLER

: ERHAN ÜSTÜN

SING

DATE

: 29.04.2021