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> Basaran Is Elbiseleri.Ve Is Guvenligi Ekipmanlari Sanayi Ticaret Ltd.Sti. -

Merkez Mh. Ataturk Cd: No:49 Orhanli

Tuzla

**ISTAMBUL** 

Turkey

## CE TYPE EXAMINATION REPORT

PPE DIRECTIVE 89/686/EEC - Article 10

Respiratory protective device

Report n°

11.7.0059

Technical referential

EN 149:2001 + A1 : 2009

Type of device

PPE category III

Filtering half mask to protect against particles

Class

FFP2 NR

Trade Mark

**ERA** 

Model

1210 VALVE

Fontaine, the 21<sup>st</sup> December 2011

Report in 2 copies; send to the address above, for the attention of EROL MEMIŞ.

This report includes 14 pages

The PPE teshnical manager

Olivier VILA COBARSI

# **Summary**

- 1. Introduction Description of the service
- 2. Use of the report
- 3. Identification of the equipment
- 4. Conditions for use of the equipment
- 5. Reference specification
- 6. Description of the equipment
- 7. Correlation between the articles of Directive 89/686/EEC and the reference standard
- 8. Examination report
- 9. Conclusion



## 1.Introduction - Description of the service

This report concerns a PPE category III – filtering half mask to protect against particles as defined in § 4 of EN 149:2001 + A1 : 2009

Its purpose is to assess the conformity of the filtering half mask to protect against particles with the European Directive 89/686/EEC of 21 December 1989 "Personal Protective Equipment" transposed into French labour code, with a view to be placed on the European market exclusively.

The examination was conducted in accordance with purchase order placed by Basaran Is Elbiseleri. Ve Is Guvenligi Ekipmanlari Sanayi Ticaret Ltd. Sti.

Company: Basaran Is Elbiseleri.Ve Is Guvenligi Ekipmanlari Sanayi Ticaret Ltd.Sti. - Merkez Mh.Ataturk - Cd: No:49 Orhanli - Tuzla - ISTAMBUL - Turkey

## 2.Use of the report

This report only concerns the equipment identified in clause 3 and described in clause 6.

Only an integral reproduction of this report is authorized.

The manufacturer, or his representative, commits himself not to use this report for equipment that is not strictly identical to the equipment covered by this report.

## 3.Identification of the equipment

### 3.1. Manufacturer - Manufacturing place - Place on the market

Basaran Is Elbiseleri. Ve Is Guvenligi Ekipmanlari Sanayi Ticaret Ltd. Sti. - Merkez Mh. Ataturk - Cd: No:49 Orhanli - Tuzla - ISTAMBUL - Turkey

#### 3.2. Tested equipment

Following equipment has been tested:

Class:

FFP2 NR

Trade mark: ERA

Model:

**1210 VALVE** 

A CE type examination certificate is awarded for this equipment.

#### 3.3. Equivalences

No equivalence

#### 3.4.Other trade name

No other trade name

## 4. Conditions for use of the equipment

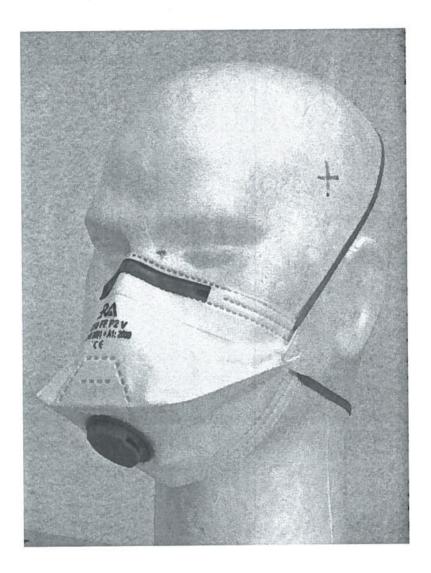
This filtering half mask is intended to be used as respiratory protective devices to protect against particles except for escape purposes.

## 5. Reference specification

The assessment of conformity with Directive 89/686/EEC of 21 December 1989 "Personal Protective Equipment" was conducted taking also into account the provisions of European standard EN 149:2001 + A1:2009 " Respiratory protective devices — Filtering half masks to protect against particles".

# 6.Description of the equipment

## 6.1.Drawing





#### 6.2.Description

Filtering half mask to protect against particles with exhalation valve class FFP2 NR limited to single shift use only. It consists entirely of filter material and is designed with one nose slide and two self-adjusting head harnesses

## 6.3.Description of components

Detailed description of the equipment model 1210 VALVE in the manufacturing technical file dated on 15/12/2011 received on 21/12/2011 and edited by Basaran Is Elbiseleri. Ve Is Guvenligi Ekipmanlari Sanayi Ticaret Ltd. Sti.

#### 6.4.Location of the CE marking

- Notified body in charge of manufactured PPE category III control (article 11): APAVE SUDEUROPE SAS - France
- \* CE mark: **CE 0082**
- ➤ Graphic of letters C and E: Conform
- \* Height of mark: 6 mm
- \* Marking clear and permanent: Conform
- \* Location of the marking: Printed on the upper outside

# 7.Correlation between the articles of Directive 89/686/EEC and the reference standard

The following table shows the correlation between the essential requirements of Directive 89/686/CEE of 21 December 1989 "Personal Protective Equipment" and the articles of the European standard EN 149:2001 + A1:2009 " Respiratory protective devices — Filtering half masks to protect against particles".

Directive 89/686/EEC	Clauses of the standard
Annex II	Clauses of the Standard
1.1.1	5 ; 7.8 ; 7.9
1.1.2.1	5 ; 7.8 ; 7.9
1.1.2.2	7.8 ; 7.9
1.2.1	7.6
1.2.1.1	7.6 ; 7.7 ; 7.10 ; 7.11
1.2.1.2	7.8
1.2.1.3	7.8 ; 7.13
1.3.1	7.8 ; 7.13
1.3.2	7.8 ; 7.13 ; 7.15.2
□ 1.4	10
2.1	7.13
2.3	7.14
2.4	9;10
2.6	10
2.8	10
2.9	7.13 ; 7.18
2.12	9
3.10.1	7.6; 7.7; 7.8; 7.9; 7.12; 7.16; 7.17; 9 ; 10

WARNING: Other requirements and other EU Directives maybe applicable to the products falling within the scope of this European Standard.



## 8.Examination report

Article of the		Co	nform	ity*	
standard EN 149+A1	Content	Yes	No	N-A	Comments
Art. 7	Requirements				
Art 7.3	Visual inspection The visual inspection shall also include the marking and the information supplied by the manufacturer	<b>✓</b>			
Art 7.4	Packaging Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.	•			
Art 7.5	Material Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.  After undergoing the simulated wearing treatment none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.  Three particle filtering half masks shall be tested.  When conditioned, the particle filtering half mask shall not collapse.  Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	*			Date of test: 16/08/2011
Art 7.6	Cleaning and disinfecting If the particle filtering half mask is designed to be re-Usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer.  After cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.			<b>✓</b>	Single use mask

Article of		<del></del> -					<del>:</del>		Co	nform	ity*						
the standard				Cont	ent				Yes	No	N-A	C	comments				
EN 149+A1	Ï																
Art 7.7	The perfor	particle mance t e genera	tests und al tests	half ma der realis serve th	stic cond e purpo	litions. se of c	go pract	the	✓			any	ate of test: 27/10/2011 imperfections letermined				
	by the Where has in house practi	e tests de e praction perfect es hall	escribed cal perfo ions rela provide rformano	elsewhormance ated to w full det	ere in thi tests s earer's a ails of	is standa show the acceptai those p	determi ard. e apparance, the parts of aled th	atus test the				determined					
Art 7.8	Parts	Finish of parts  Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs															
Art 7.9 Art 7.9.1	Leak Tota	_	d leaka	ge					✓		:		Pate of test:				
	The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected.  The total inward leakage consists of three components: face seal leakage, exhalation valve leakage( if exhalation valve fitted) and filter penetration.  For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual exercise results ( i.e.10 subjects x 5 exercises) for total inward leakage shall be not greater than																
								dual results ≤ 11%									
				8% for	FFP2							10 a	averages ≤ 8%				
F	xercice Test subject reference							·									
		1	2	3	4	5	6	7	8 9		9	10					
	а	0.61	0.34	0.24	0.62	0.37	0.23	1.48	3 2	2.30	2.09	1.39					
	b	0.62	1.86	0.19	2.20	0.36	0.93	2.02	2 1	.82	2.63	2.86					
	С	0.74	0.56	0.23	1.22	0.43	0.36	4.64	4 2	2.10	1.29	2.13					
	d	0.63	0.41	0.36	0.17	0.49	0.27	1.98	3 /	1.55	1.84	2.77					

1.46

2.32

2.10

1.98

0.96

1.76

2.05

2.24

			_		
File	e 1	1.	7.	oo	59

е

average

0.57

0.63

0.64

0.76

0.41

0.29

Total inward leakage values in %

0.46

0.93

0.48

0.43

0.20

0.40



Article of					nform	ity*	
the standard		Content		Yes	No	N-A	Comments
EN							
149+A1 Art 7.9.2	Penetration of fil	ter material		1			Date of test:
			particle filtering half				16/08/2011
	mask shall meet the	e requirements of	Table1.				T
			ation of test aerosol				Tests results with paraffin oil:
	Classification	Sodium chloride test 95 l/min	Paraffin oil test 95 l/min				<u> </u>
		% max.	% max.				Exposure tests :
	FFP1	20	20				After MS, CT ≤ 4.52 %
	FFP2	6	6				Penetration tests :
	FFP3	1 Pénétration du m	atériau filtrant				As received ≤ 1.92 %
	Tableau I – I	enecaton du III	ateriau iliti di il				After SWT ≤ 2.59 %
			ng half masks shall				
	be tested for each a						Tests results with Sodium
	Lesting using the   13274-7, shall be pe		t according to EN				<u>Chloride :</u> Exposure tests :
	- 3 samples as rece						After MS, CT ≤ 1.07 %
		the simulated	wearing treatment				
:	(SWT).	rnoeura taet with	a specified mass of				Penetration tests : As received ≤ 1.31 %
	test aerosol of 120						After SWT ≤ 1.41 %
	claimed to be re-u	sable additionally	y the Storage test,				
	according to EN 132 - for non-re-usable						
	for mechanical stre						
	conditioning (TC).						
	- for re-usable devi						
	mechanical stren conditioning and follows		by temperature				
	disinfecting cycle						
	instruction.	-					
Art 7.10	Compatibility wit	h skin		1			Manufacturer statement
,,	Materials that may		ct with the wearer's	,			mandadarer staternent
	skin shall not be known	own to be likely to					
	any other adverse e	ffect to health.					
Art 7.11	Flammability			1			Date of test:
	The material used	shall not presen	t a danger for the				16/08/2011
	wearer and shall not When tested, the p						
	burn or not to conti						The mask doesn't burn 5s
	removal from the fla	me.					after removal from the
	The particle filtering usable after the test		es not have to be				flame
	usable after the test	•					
		· · · · · · · · · · · · · · · · · · ·	<u></u> .				

Article of		Conformity*						
the standard EN 149+A1		Cor	ntent <sub>;</sub>		Yes	No	N-A	Comments
Art 7.12	Carbon dioxid The carbon dio space) shall not	xide conten	t of the inhala	<b>√</b>			Date of tests : <b>28/07/2011</b> CO <sub>2</sub> ≤ 0.77 %	
Art 7.13	Head harness The head harne filtering half mas The head harne and shall be suf half mask firmly total inward leak	ess shall be lik can be do less shall be ficiently robu in position a				Self-Adjusting harness		
Art 7.14	Field of vision The field of vi- practical perform	sion is acc	eptable if dete	ermined so in				See Art 7.7
Art 7.15	A particle filter exhalation valve orientations	ing half ma	ask may have shall function o	one or more correctly in all	•			
	If an exhalation against or be rand may be should that may be new to comply with 7	esistant to rouded or rocessary for	dirt and mecha nay include an	anical damage y other device				
	Exhalation valv correctly after a over a period of	continuous	d, shall conting exhalation flow	ue to operate w of 300 l/min	1			Date of tests: 17/08/2011
	When the exhall blank, it shall vapplied for 10s.	ation valve h withstand ax	nousing is attact kially a tensile	hed to the face force of 10 N	1			Date of tests: 16/08/2011
Art 7.16	Breathing res The breathing r particle filterin requirements of	apply to valved asks and sha	and valveless all meet the	-			Date of tests: 19/10/2011	
		Maxi	mum permitted re (mbar)	esistance				at 30l/min ≤ 0.40 mbar
	Classification		alation 95 l/min	exhalation 160 l/min	1			at 95l/min ≤ 1.32 mbar
	FFP1	30 l/min 0.6	95 I/MIN 2.1	3.0	1			at 160l/min ≤ 1.91 mbar
	FFP2	0.7	2.4	3.0	]			
	FFP3	1	3	3.0	4			
	Table 2 – Breathing resistance							No requested
Art 7.17	Clogging							No requested
Art 7.18	Demountable All demountable and secured, w	e parts (if fith		adily connected				

<sup>\*</sup> The measurement uncertainties are not taken into account for the assessment of conformity.



Article of		Co	Conformity				
the standard EN 149+A1	Content	Yes	No	N-A	Comments		
Art. 9	Marking						
Art 9.1	Packaging The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent	*					
Art 9.1.1	The name, trademark or other means of identification of the manufacturer or supplier	✓					
Art 9.1.2	Type-identifying marking	✓					
Art 9.1.3	Classification The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D.	*					
Art 9.1.4	The number and year of publication of this European Standard	✓					
Art 9.1.5	At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in Figure12a, where yyyy/mm indicates the year and month.	<b>✓</b>					
Art 9.1.6	The sentence "see information supplied by the manufacturer", at least in the official language(s) of the country of destination, or by using the equivalent pictogram.	<b>✓</b>					
Art 9.1.7	The manufacturer's recommended conditions of storage ( at least the temperature and humidity) or equivalent pictogram	✓					
Art 9.1.8	The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D". This letter shall follow the classification marking preceded by a single space.			*			

Article of		Co	nform	ity	
the standard EN 149+A1	Content	Yes	No	N-A	Comments
Art. 9	Marking (continuation)				
Art 9.2	Particle filtering half mask Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:	<b>*</b>			
Art 9.2.1	The name, trademark or other means of identification of the manufacturer or supplier	<b>*</b>			
Art 9.2.2	Type-identifying marking	✓			
Art 9.2.3	The number and year of publication of this European Standard	✓			
Art 9.2.4	Classification The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D."	<b>*</b>			
Art 9.2.5	If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the classification marking preceded by a single space (see 9.2.4).			1	
Art 9.2.6	Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified			<b>*</b>	
Directive	CE Marking (CE + Notified body) The marking shall be clearly, durably and permanently marked by any mean without effect on material Legible and visible characters	<b>* * *</b>			



Article of		Co	nform	ity	
the standard EN 149+A1	Content	Yes	No	N-A	Comments
	Concerning the instruction for use: Only the English version has been checked. It is the responsibility of the manufacturer to supply the instruction for use in the official languages of the country of destination				
Art. 10	Information to be supplied by the manufacturer				
Art 10.1	Information supplied by the manufacturer shall accompany every smallest commercial available package	✓			
Art 10.2	Information supplied by the manufacturer shall be at least in the official language(s) of the country of destination	<b>✓</b>			
Art 10.3	The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on:				
	— application/limitations ;	✓			
	— the meaning of any colour coding;	✓			
	— checks prior to use ;	✓			
	— donning, fitting ;	✓			
	— use ;	✓			
	— maintenance (e.g. cleaning , disinfecting),if applicable;	✓			
	— storage ;	✓			
	— the meaning of any symbols/pictogram used of the equipment	✓			
Art 10.4	The information shall be clear and comprehensible. If helpful, illustrations, part numbers, marking shall be added.	<b>*</b>			
Art 10.5	Warning shall be given against problems likely to be encountered, for example:				
	— fit of particle filtering half mask (check prior to use);	1		İ	
	— it is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal;	<b>✓</b>			
	— air quality (contaminants, oxygen deficiency);	1			
	— use of equipment in explosive atmosphere.	<b>✓</b>			
Art 10.6	The information shall provide recommendations as to when the particle filtering half mask shall be discarded.	<b>✓</b>			
Art 10.7	For devices marked "NR", a warning shall be given that the particle filtering half mask shall not be used for more than one	<b>✓</b>			
Directive	shift. Presence of name, address the manufacturer or supplier Presence of name, address and notified body number who have done CE type examination	<b>*</b>			

## 9.Conclusion

The filtering half mask to protect against particles trade mark "ERA", model "1210 VALVE" meets the basic requirements of European Directive 89/686 of 21 December 1989, "Personal Protective Equipment" relative to the design of the product examined and transposed into French law by the relevant articles of French labour code.

The assessment of conformity takes into account the compliance of filtering half mask to protect against particles with the provisions of European standard EN 149:2001 + A1 : 2009 and with the conformity of manufacturer's technical file.

Consequently, a CE type examination certificate is issued for this equipment:

Number of CE Type examination certificate: 0082/1585/079/12/11/0536