

**NB 2163** 

# **EU TYPE EXAMINATION CERTIFICATE**

Certificate No: 2163-PPE-1160

Respiratory protective devices, filtering half masks to protect against particles manufactured by

Jiangsu Liyu Razor Company Limited

No. 19th, Dongtinghu Road, Siyang, Suqian, Jiangsu Province, China

are tested and evaluated according to

EN 149:2001 + A1:2009 Respiratory Protective Devices -Filtering Half Masks to Protect Against Particles -Requirements, Testing, Marking

Based on the type examination conducted with the evaluation of test reports, technical file according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 5, it is approved that the product meets the requirements of the regulation.

## **Product Definition**

Single shift use particle filtering half mask for protection against solid and liquid aerosols, is a folding type, 5 layers, without valve, built-in nose clip, fitted with ear loops.

Brand Name: BARBEADOR Model: MAX-02 Classification: FFP2 NR

Model have Black, Dark Blue, Gray, Green, Pink, Wine Red and White versions.

For more details, refer technical evaluation report provided to the manufacturer, dated 22.02.2021 and number 2163-KKD-1160-R1

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with;

- Issuing an appropriate EU Declaration of Conformity according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 9.
- Ongoing successful performance in fulfilment of the requirements set out in Personal Protective Equipment Regulation (EU) 2016/425 and harmonised standards, ensured by assessments based on Annex 7 (Module C2) or Annex 8 (Module D) of the regulation.

This certificate is initially issued on 26/07/2020 and will be valid for 5 years, if there is no change in the relevant harmonised standard affecting the essential health and safety requirements.



Suat KAÇMAZ
UNIVERSAL CERTIFICATION
Director

This certificate is re-issued on 22.02.2021 to update product definition, include brand name and coloured versions of the model.



## TECHNICAL ASSESSMENT REPORT

**REPORT DATE / NO:** 22.02.2021 / 2163-KKD-1160-R1 Initial report date and number: 26.07.2020 / 2163-KKD-1160

This report is updated to include more information on the certified model.

Manufacturer: Jiangsu Liyu Razor Company Limited

Address: No. 19th, Dongtinghu Road, Siyang, Suqian, Jiangsu Province, CHINA

This report is for the, given above, manufacturer prepared according to the test results obtained from Jiangsu Guojian Testing Technology Co., Ltd. accredited by CNAS (China National Accreditation Service), signatory to ILAC MRA, with number L-10118 for the product identified below, dated 22.06.2020 with Serial Id [2020] WSZ FHL NO.6391 based on EN 149: 2001 + A1: 2009 standard and the technical file dated 10.02.2021 Version 02 provided by the manufacturer. The sampling of the product is conducted under our supervision for testing from the manufacturing site of the client.

The technical file of the manufacturer, and risk evaluation against the essential health safety requirements and the test report evaluated for their relation with Essential Requirements of Personel Protective Equipment Regulation and found to be appropriate.

This report is an annex and an integral part of the EU Type Examination Certificate No. 2163-PPE-1160 issued to the manufacturer. The test results and issued certificate belongs only to the tested model. The technical report consists of a total of 7 pages.

**Product Description:** Single shift use particle filtering half mask for protection against solid and liquid aerosols, is a folding type, 5 layers, without valve, built-in nose clip, fitted with ear loops.

## Component and Materials:

Component	Material	Grade / Size
1st layer (Outer)	Non-woven Fabric (PP)	50 gsm (± 10%)
2nd layer	Hot Air Cotton	45 gsm (± 5%)
3rd layer	Melt-blown Fabric	25 gsm (± 5%)
4th layer	Melt-blown Fabric	25 gsm (± 5%)
5th layer (Inner)	Non-woven Fabric (PP)	25 gsm (± 10%)
Nose Bridge	Double Bridge Line	Length: 82.5 mm (± 1 mm)
Ear Loop	Spandex + Nylon	Length: 180 mm (± 5 mm)

Classification: FFP2 NR

Brand Name: BARBEADOR Model: MAX-02

Colored samples of the mask







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# ESSENTIAL HEALTH and SAFETY REQUIREMENTS GIVEN IN EUROPEAN UNION REGULATION EU 2016/425 CORRESPONDING RISKS FOR THE PRODUCT

#### 1.1. Design principles

#### 1.1.1. Ergonomics

PPE must be so designed and manufactured that in the foreseeable conditions of use for which it is intended the user can perform the risk related activity normally whilst enjoying appropriate protection of the highest prossible level.

## 1.1.2. Levels and classes of protection

## 1.1.2.1. Highest level of protection possible

The optimum level of protection to be taken into account in the design is that beyond which the constraints by the wearing of the PPE would prevent its effective use during the period of exposure to the risk or normal performance of the activity.

## 1.1.2.2. Classes of protection appropriate to different levels of risk

Where differing foreseeable conditions of use are such that several levels of the same risk can be distinguished, appropriate classes of protection must be taken into account in the design of the PPE.

#### 1.2. Innocuousness of PPE

## 1.2.1. Absence of risks and other inherent nuisance factors

PPE must be so designed and manufactured as to preclude risks and other nuisance factors under fore seeable conditions of use.

#### 1.2.1.1. Suitable constituent materials

The materials of which the PPE is made, including any of their possible decomposition products, must not adversely affect the health or safety of users.

## 1.2.1.2. Satisfactory surface condition of all PPE parts in contact with the user

Any part of the PPE that is in contact or is liable to come into contact with the user when the PPE is worn must be free of rough surfaces, sharp edges, sharp points and the like which could cause excessive irritation or injuries.

#### 1.2.1.3. Maximum permessible user impediment

Any inpediment caused by PPE to movements to be made, postures to be adopted and sensory perception must be minimized; nor must PPE cause movements which endanger the user or other persons.

#### 1.3 Comfort and effectiveness

#### 1.3.1. Adaptation of PPE to user morphology

PPE must be designed and manufactured in such a way as to facilitate its correct positioning on the user and to remain in place for the foreseeable period of use, bearing in mind ambient factors, the actions to be carried out and the postures to be adopted. For this purpose, it must be possible to adapt the PPE to fit the morphology of the user by all appropriate means, such as adequate adjustment and attachment systems or the provision of an adequate range of sizes.

#### 1.3.2. Lightness and design strength

PPE must be as light as possible without prejudicing design strength and efficiency.

Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3), PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use.

## 1.4. Information supplied by the manufacturer

The notes that must be drawn up by the former and supplied when PPE is placed on the market must contain all relevant information on:

- a) In addition to the name and addressof the manufacturer and/or his authorized representative established in the Community
- b) Storage, use, cleaning, maintenance, servicing and disinfection, cleaning, maintenance or disinfectant protection recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;
- c) Performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in guestion;
- d) Suitable PPE accessories and the characteristics of appropriate spare parts;
- e) The classes of protection appropriate to different levels of risk and the corresponding limits of use;
- f) The obsolescence deadlineor period of obsolescence of PPEor certain of its components;
- g) The type of packaging suitable for transport;
- h) The significance of any markings(see 2.12)
- i) Where appropriate the references of the Directives applied inaccordance with Article5(6) (b);
- j) The name, address and identification number of the notified body involved in the design stage of the PPE

These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the member state of destination



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# 2. ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

#### 2.1. PPE incorporating adjustment systems

If PPE incorporates adjustment systems, the latter must be designed and manufactured so that, after adjustment, they do not become undone unintentionally in the foreseeable conditions of use.

## 2.3. PPE for the face, eyes and respiratory system

Any restriction of the user's face, eyes, field of vision or respiratory system by the PPE shall be minimised.

The screens for those types of PPE must have a degree of optical neutrality that is compatible with the degree of precision and the duration of the activities of the user.

If necessary, such PPE must be treated or provided with means to prevent misting-up.

Models of PPE intended for users requiring sight correction must be compatible with the wearing of spectacles or contact lenses.

#### 2.4. PPE subject to ageing

If it is known that the design performance of new PPE may be significantly affected by ageing, the month and year of manufacture and/or, if possible, the month and year of obsolescence must be indelibly and unambiguously marked on each item of PPE placed on the market and on its packaging.

If the manufacturer is unable to give an undertaking with regard to the useful life of the PPE, his instructions must provide all the information necessary to enable the purchaser or user to establish a reasonable obsolescence month and year, taking into account the quality level of the model and the effective conditions of storage, use, cleaning, servicing and maintenance.

Where appreciable and rapid deterioration in PPE performance is likely to be caused by ageing resulting from the periodic use of a cleaning process recommended by the manufacturer, the latter must, if possible, affix a marking to each item of PPE placed on the market indicating the maximum number of cleaning operations that may be carried out before the equipment needs to be inspected or discarded. Where such a marking is not affixed, the manufacturer must give that information in his instructions.

## 2.6. PPE for use in potentially explosive atmospheres

PPE intended for use in potentially explosive atmospheres must be designed and manufactured in such a way that it cannot be the source of an electric, electrostatic or impact-induced arc or spark likely to cause an explosive mixture to ignite.

## 2.8. PPE for intervention in very dangerous situations

The instructions supplied by the manufacturer with PPE for intervention in very dangerous situations must include, in particular, data intended for competent, trained persons who are qualified to interpret them and ensure their application by the user.

The instructions must also describe the procedure to be adopted in order to verify that PPE is correctly adjusted and functional when worn by the user. Where PPE incorporates an alarm which is activated in the absence of the level of protection normally provided, the alarm must be designed and placed so that it can be perceived by the user in the foreseeable conditions of use.

## 2.9. PPE incorporating components which can be adjusted or removed by the user

Where PPE incorporates components which can be attached, adjusted or removed by the user for replacement purposes, such components must be designed and manufactured so that they can be easily attached, adjusted and removed without tools.

# 2.12. PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of must preferably take the form of harmonized pictograms or ideograms and must rem ain perfectly legible throughout the foreseeableuseful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation; in particular, where such marks incorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.

If PPE (or a PPE component) is too small to allow al lor part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

#### 3. ADDITIONAL REQUIREMENTS SPECIFIC TO PARTICULAR RISKS

#### 3.10.1. Respiratory protection

PPE intended for the protection of the respiratory system must make it possible to supply the user with breathable air when exposed to a polluted atmosphere and/or an atmosphere having an inadequate oxygen concentration.

The breathable air supplied to the user by PPE must be obtained by appropriate means, for example after filtration of the polluted air through PPE or by supply from an external unpolluted source.

The constituent materials and other components of those types of PPE must be chosen or designed and incorporated so as to ensure appropriate user respiration and respiratory hygiene for the period of wear concerned under the foreseeable conditions of use.

The leak-tightness of the facepiece and the pressure drop on inspiration and, in the case of the filtering devices, purification capacity must keep contaminant penetration from a polluted atmosphere low enough not to be prejudicial to the health or hygiene of the user.

The PPE must bear details of the specific characteristics of the equipment which, in conjunction with the instructions, enable a trained and qualified user to employ the PPE correctly.

In the case of filtering equipment, the manufacturer's instructions must also indicate the time limit for the storage of new filters kept in their original packaging.

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Technical Assessment of EN 149: 2001 + A1: 2009 Standard and other Standards it refers to, Clauses Corresponding to the (EU) 2016/425 Directive

	Conforming to EN	149:2001 + A1:20	009 Standard Re	equirements
	Classification: Particle Filtering Half M	ask		
Article	The mask subject to evaluation based on the test results and technical file provided by the manufacturer is classified as:			
5	Filtering Efficiency and maximum Total Inward Leakage: Classified as FFP2			
3	Mask is classified for single shift use, NR			
Article	Packing: Particle filtering half masks	are packaged to protec	t them from contam	ination before use and with cardboard boxes to
7.4	increasion results since in the test	ign and the product is	considered to withst	and the foreseeable conditions of use based on the
7.4	inspection results given in the test report.	Details given in Annex	9.1 of technical file.	
	Material: Materials used in particle filte	ring half masks, accordi	ng to the simulated w	rearing treatment and temperature conditioning res
	understood it withstands handling and we	ar over the period for w	hich the particle filter	ing half mask is designed to be used, it suffered me
	failure of the facepiece or straps, any m	aterial from the filter n	nedia released by the	air flow through the filter has not constitute a h
	nuisance for the wearer. The manufactur	er declares that the mat	erials used in manufa	cturing of the mask does not have an adverse affective
	health and safety of users. Manufactures technical file.	declares that the mate	rial do not have any	adverse effect for the wearers health in Section
		not colleges when sub-	ant to aimulated	ring and temarature conditioning. No nuisance sit
Article	reported during the practical performance	tests by human subjects	ect to simulated wear	ring and temarature conditioning. No nuisance sit
7.5	performance	tests by numan subjects	••	
	The model have colored ones manufacture	red by use of colored no	on-woven fabrics in t	he most outer layer of the mask, with the earloops
	Based on the test results in the test re	port of TUV THURING	GEN (SHANGHAI)	CO., LTD. (Report numbers 8621.SH.2102.0054
	8621.SH.2102.0053 (Dark Blue), 8621.	SH.2102.0057 (Gray).	8621.SH.2102.0055	(Green), 8621.SH.2102.0058 (Pink), 8621.SH.21
	(Wine Red) and white - prepared by TU	V THURINGEN (SHAN	IGHAI) CO., LTD. T	he colored materials (PP Non-woven Fabric) use
	most outer layer of the mask is considered	d to be safe for use on th	e mask.	,,,
Article	manufacturer.	ring half mask is <b>not</b> de	signed to be as re-usa	ble. No cleaning or disinfection procedure provide
7.6	manuracturer.			
	Practical Performance: The test report indicates that the human of the feet report indicates	subjects did not face on	y difficulty in perform	sing the according while the control of the state of the
Article	The test report indicates that the human masks, in walking test or work simulation	on tests. The wearers d	id not report any fail	ning the excercises while they were weared by the ure by means of head harness / straps/ earloops award tests about the comfort, field of vision and f
Article	The test report indicates that the human smasks, in walking test or work simulative security of fastenings and field of vision. issues.  Assessed Elements	on tests. The wearers d	id not report any fail	ure by means of head harness / straps/ earloops
Article	The test report indicates that the human smasks, in walking test or work simulatis security of fastenings and field of vision. issues.  Assessed Elements  1.Head harness comfort	Positive	id not report any fail eported during total i  Negative	ure by means of head harness / straps/ earloops award tests about the comfort, field of vision and f
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Article 7.7 Article	The test report indicates that the human smasks, in walking test or work simulative security of fastenings and field of vision. issues.  Assessed Elements  1.Head harness comfort  2.Security of fastenings  3.Field of vision  Conditioning: (A.R.) As Received, origin	Positive  Positive  2  2  2  all	Negative  0 0 0	Requirements in accordance with EN 149:2001 + A1:2009 and Result  Positive results are obtained from the test subjects
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	Condition		. of	Sodium Chloride T 95 L/min max (		Requirements in accordanc EN 149:2001 + A1:200		Result	
	(A.R.)	-	.pie	0.1			The second		
	(A.R.)	-		0.2		FFP1 ≤ 20 %			
	(A.R.)	_		0.1				Filtering half masks fulfill	
Article 7.9.2	(S.W.)			0.1	***************************************			quirements of the standa	
	The state of the s	(S.W.) -				EEDO - CO		EN 149:2001 + A1:200	
	(S.W.)			0.1		$FFP2 \le 6 \%$		ven in 7.9.2 in range of	
				0.1		-		FFP1, FFP2 and FFP3	
	(M.S. T.C.)	-		0.2		FFP3 ≤ 1 %	'	classes.	
		(M.S. T.C.)		0.3				Classes.	
		(M.S. T.C.) - 0.2							
	T) A)	Conditioning: (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment							
	Penetration of filt								
	NVIAIRA MARKATA	dition	No. of	Paraffin Oil T 95 L/min ma				Result	
	( )	D \	Sample		X (70) WI	II EN 149.2001 + A1.2009	DENT FER		
		i.R.)	-	0.4					
	· · · · · · · · · · · · · · · · · · ·	R.)	-	0.5					
	(A	R.)	-	0.4		FFP1 ≤ 20 %	Filtering 1	half masks fulfill the	
Article	(S	.W.)	-	0.5				ents of the standard	
	(S	.W.)	-	0.4		FFP2 ≤ 6 %		9:2001 + A1:2009	
7.9.2	(S	.W.)	-	0.6				7.9.2 in range of the	
	(M.S	. T.C.)	- 1	1.7	***************************************	FFP3 ≤ 1 %		and FFP2 classes.	
		. T.C.)	_	2.0				and III 2 oldsses.	
		. T.C.)		1.9					
	Conditioning: (M.		al Strength	1.7					
		C.) Temperat R.) As Recei	ure Conditioning ved, original						
	(A. (S. Compatibility with	R.) As Recei W.) Simulate skin: In Pra	ved, original d wearing treatm ctical Performan	ent	ihood of mask n	naterials in contact with the	skin causi	ing irritation or other	
Article 7.10	(A. (S. Compatibility with adverse effect on he	R.) As Recei W.) Simulate skin: In Pra	ved, original d wearing treatm ctical Performan	ent	ihood of mask n	naterials in contact with the	skin causi	ing irritation or other	
	(A. (S. Compatibility with	R.) As Recei W.) Simulate n skin: In Pra ealth was not	ved, original d wearing treatm ctical Performan reported.	ent				ing irritation or other	
	(A. (S. Compatibility with adverse effect on he	R.) As Recei W.) Simulate skin: In Pra	ved, original d wearing treatm ctical Performan reported.	ent	Requi	rements in accordance with		ing irritation or other	
7.10	(A. (S. Compatibility with adverse effect on he	R.) As Receive. W.) Simulate in skin: In Praealth was not	ved, original d wearing treatm ctical Performan reported.	ent ce report, the likeli	Requi	rements in accordance with N 149:2001 + A1:2009		Result	
7.10  Article	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.)	R.) As Receiv.) Simulate a skin: In Praealth was not	ved, original d wearing treatm ctical Performan reported.  Vis	ent ce report, the likeli sual inspection urn for 0.1s	Requi	rements in accordance with N 149:2001 + A1:2009 Filtering half mask			
7.10  Article	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.) (A.R.)	R.) As Recei W.) Simulate a skin: In Pra ealth was not  No. of Sample	ved, original d wearing treatm ctical Performan reported.  Vis	ent ce report, the likeli sual inspection turn for 0.1s turn for 0.1s	Requi	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not		Result Passed	
7.10  Article	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.) (A.R.) (T.C.)	R.) As Recei W.) Simulate a skin: In Pra ealth was not  No. of Sample	ved, original d wearing treatm ctical Performan reported.  Vis	ent ce report, the likeli sual inspection urn for 0.1s urn for 0.1s urn for 0.1s	Requi	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not continue to burn for	Filte	Result Passed ering half masks fulfill	
7.10  Article	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.) (A.R.) (T.C.)	R.) As Recei W.) Simulate a skin: In Pra ealth was not  No. of Sample	ved, original d wearing treatm ctical Performan reported.  Vis Bi Bi Bi	ent ce report, the likeli sual inspection turn for 0.1s turn for 0.1s	Requi E	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not	Filte	Result  Passed  ering half masks fulfill requirements of the	
7.10  Article	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.) (A.R.) (T.C.)	R.) As Recei W.) Simulate a skin: In Pra ealth was not  No. of Sample	ved, original d wearing treatm ctical Performan reported.  Vis Bi Bi Bi	ent ce report, the likeli sual inspection urn for 0.1s urn for 0.1s urn for 0.1s	Requi E	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not continue to burn for more than 5 s after	Filte	Result Passed ering half masks fulfill	
7.10  Article	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.) (A.R.) (T.C.) (T.C.) Conditioning: (A.F.	R.) As Receiv W.) Simulate In skin: In Pra ealth was not  No. of Sample	ved, original d wearing treatm ctical Performan reported.  Vis Bi Bi Bi Be d, original	ent ce report, the likeli sual inspection urn for 0.1s urn for 0.1s urn for 0.1s urn for 0.1s	Requi E	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not continue to burn for more than 5 s after	Filte	Result  Passed  ering half masks fulfill requirements of the	
7.10  Article	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.) (A.R.) (T.C.) (T.C.) Conditioning: (A.F.	R.) As Receiv W.) Simulate In skin: In Pracealth was not  No. of Sample	ved, original d wearing treatm ctical Performan reported.  Vis Bi Bi Bi Bi ed, original ure Conditioning	ent ce report, the likeli sual inspection urn for 0.1s urn for 0.1s urn for 0.1s urn for 0.1s	Requi E	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not continue to burn for more than 5 s after	Filte	Result  Passed  ering half masks fulfill requirements of the	
	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.) (A.R.) (T.C.) (T.C.) Conditioning: (A.F.	R.) As Receiv W.) Simulate In skin: In Pracealth was not  No. of Sample	ved, original d wearing treatm ctical Performan reported.  Vis Bi Bi Bi Bi ed, original ure Conditioning	ent ce report, the likeli sual inspection urn for 0.1s urn for 0.1s urn for 0.1s urn for 0.1s	Requi E	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not continue to burn for more than 5 s after	Filte	Result  Passed  ering half masks fulfill requirements of the	
7.10  Article 7.11  Article	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.) (A.R.) (T.C.) (T.C.) Conditioning: (A.F.	R.) As Receiv W.) Simulate In skin: In Pracealth was not  No. of Sample	ved, original d wearing treatment ctical Performan reported.  Vis Bi Bi Bi Bi Bi Bi Conditioning inhalation air:	ent ce report, the likeli sual inspection urn for 0.1s urn for 0.1s urn for 0.1s urn for 0.1s	Require E  An average CO <sub>2</sub> content of the inhalation	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not continue to burn for more than 5 s after emoval from the flame	Filte r	Result  Passed  ering half masks fulfill requirements of the standard	
7.10  Article 7.11  Article	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.) (A.R.) (T.C.) (T.C.) Conditioning: (A.F. (T.C.) Carbon dioxide co	R.) As Receive.  No. of Sample  R.) As Receive.  No. of Sample  R.) As Receive.  R.) As Receive.  No. of Sample	ved, original d wearing treatm ctical Performan reported.  Vis Bi Bi Bi Bi Bi Conditioning inhalation air:  CO2 content of [%] by	ent ce report, the likeli sual inspection turn for 0.1s	Require E	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not continue to burn for more than 5 s after emoval from the flame	Filte r	Result Passed ering half masks fulfill requirements of the standard  Result	
7.10  Article 7.11  Article	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.) (A.R.) (T.C.) (T.C.) Conditioning: (A.F. (T. Carbon dioxide co	R.) As Receiv W.) Simulate In skin: In Pra ealth was not  No. of Sample R.) As Receiv C.) Temperat Intent of the i  No. of Sample	ved, original d wearing treatm ctical Performan reported.  Vis  Bi Bi Bi Bi cd, original ure Conditioning inhalation air:  CO <sub>2</sub> content of [%] by  0.683	ent ce report, the likeli sual inspection urn for 0.1s urn for 0.1s urn for 0.1s urn for 0.1s the inhalation air volume	Require E  An average CO <sub>2</sub> content of the inhalation	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not continue to burn for more than 5 s after emoval from the flame  Requirements in accord EN 149:2001 + A1:	Filter	Result Passed ering half masks fulfill requirements of the standard  Result  Passed	
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7.10  Article 7.11  Article	(A. (S. Compatibility with adverse effect on he Flammability:  Condition (A.R.) (A.R.) (T.C.) (T.C.) Conditioning: (A.F. (T. Carbon dioxide co	R.) As Receiv W.) Simulate In skin: In Pra ealth was not  No. of Sample  R.) As Receiv C.) Temperat Intent of the i  No. of Sample  1 2 3	ved, original d wearing treatm ctical Performan reported.  Vis Bi Bi Bi Bi Bi Conditioning (inhalation air:  CO2 content of [%] by  0.683 0.681	sual inspection urn for 0.1s	An average CO <sub>2</sub> content of the inhalation air	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not continue to burn for more than 5 s after emoval from the flame  Requirements in accord EN 149:2001 + A1:	Filter	Result Passed ering half masks fulfill requirements of the standard  Result  Passed	
7.10  Article	Condition  (A.R.) (A.R.) (A.R.) (A.R.) (T.C.) (T.C.)  Condition  (A.R.) (A.R.) (A.R.) (A.R.) (A.R.) (A.R.) (A.R.) (A.R.) (A.R.) (Carbon dioxide co	R.) As Receiv W.) Simulate In skin: In Pra Ealth was not  No. of Sample  R.) As Receiv C.) Temperat Intent of the i  No. of Sample  1 2 3 R.) As Receiv	ved, original d wearing treatm ctical Performan reported.  Vis Bi Bi Bi Bi Bi Bi Conditioning (inhalation air:  CO2 content of [%] by 0.683 0.681 0.681 ced, original commance and TILL commands and TILL commands are conditioning inhalation air:	sual inspection urn for 0.1s 0.1s urn for 0.1s 0.1s 0.1s 0.1s 0.1s 0.1s 0.1s 0.1s	An average CO <sub>2</sub> content o the inhalation air  0.68 [%]	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not continue to burn for more than 5 s after emoval from the flame  Requirements in accord EN 149:2001 + A1:  CO <sub>2</sub> content of the inha shall not exceed an av 1,0% by volum	Filter r  ance with 2009	Result  Passed  ering half masks fulfill requirements of the standard  Result  Passed  Filtering half masks fulfil requirements of the standard	
7.10  Article 7.11  Article 7.12  Article	Condition  (A.R.) (Condition) (A.R.) (A.R.) (T.C.) (T.C.)  Conditioning: (A.F.) (A.R.) (A.R.) (T.C.)  Conditioning: (A.F.) (A.R.)  Conditioning: (A.F.)  Head harness: In Fresults of these tests	R.) As Recei W.) Simulate In skin: In Pra Lalth was not  No. of Sample  R.) As Receiv C.) Temperat Intent of the i  No. of Sample  3  2.) As Receiv  Practical Performing indicates that	ved, original d wearing treatment ctical Performance and TIL at the ear loops are	sual inspection turn for 0.1s	An average CO <sub>2</sub> content o the inhalation air  0.68 [%]	rements in accordance with N 149:2001 + A1:2009 Filtering half mask shall not burn or not continue to burn for more than 5 s after emoval from the flame  Requirements in accord EN 149:2001 + A1:  CO <sub>2</sub> content of the inha shall not exceed an av 1,0% by volum	Filte r ance with 2009	Result  Passed  ering half masks fulfill equirements of the standard  Result  Passed  Filtering half mask fulfil requirements of the standard  nove of the mask also the	



Article 7.16	Breathing Resistance: Inhalation  The overall evaluation in the figures gathered for 9 different samples 3 as received, 3 with temparature conditioning and 3 simulated wearing treatment conditioned complies with the limits given in the standard for FFP1, FFP2 and FFP3 classes. This is valid for inhalation results for 30 L/min, 95 L/min and exhalation at 160 L/min.  Passed.
Article 7.17	Clogging: This test is not applied to Particle Filtering Half Mask which is not reusable.  (For single shift use devices, the clogging test is optional test. For re-usable devices test is mandatory.)
Article 7.18	Demountable Parts: There are no demountable parts on the product.
Article 8	Testing: All tests conducted according to Clause 8 of this standard is available in the test report and are evaluated in this report for qualification and classification of the mask.
Article 9	Marking – Packaging: Necessary markings are available on the product package (box). The manufacturer and its trademark is clearly visible. The type of the mask and the classification including the status of re-usability, the reference to EN 149:2001+A1:2009 standard, the end date of shelf life, using and storage instructions and pictograms and CE mark are available on the product package. The above evaluation is based on the technical document for packaging and marking, for box design. Verified on the Annex 9.1 of the technical file.  The technical documentation for mask design (drawing) also evaluated for marking requirements, drawing Annex 6. The mask template (drawing) indicates that the mask will carry information about the brandname (BARBEADOR) of the manufacturer, type of mask, the reference to EN 149:2001+A1:2009 standard and classification including the re-usability of the mask. The manufacturer also printed CE mark with our Notified Body number. The mask do not have sub-assemblies. Even the tested sample by the laboratory do not carry necessary marking information as stated in the technical documentation, the manufacturer shall follow marking instructions for serial production. Model MAX-02 drawing exists in the technical file of the manufacturer, Annex 6 of technical file.
	The manufacturer shall pay attention on the colored samples that the markings shall be easily readable on the mask.
Article 10	Information to be supplied by the manufacturer: In each of the smallest commercially available packaging of the product, implementation (installation instructions) pre-use controls, warning and usage limitations, storage and meanings of symbols / pictograms are defined. User instruction document in the technical file found to be appropriate; Annex 8 of technical file. The manufacturer shall include this documented user information text in every smallest commertially available package.

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