CERTIFICATE OPERATIONS

→ Verify Issued Certificate

Application Form

Verify Issued Certificate

Certificate Nr | Company Name (Min First 3 Letters) | SEARCH

Please do not request e-mail verification in case you can verify the certificate with scanning QR Codes. Please compare the information results on the query result on the web page and on the certificate on your side when you make query by QRCode or manual.

The certificate holder, certificate number, standard and model name (if exists) must match.

Query Results

Certificate Holder	TOPTEC CO., LTD.
Certificate Nr	2163-PPE-1433
Certificate Type	EN 149+A1:2009 Module B, EU Type Examination Certificate
Model Name	Air Queen / Breeze Mask FFP2 NR
Valid Through	11 / 09 / 2020
Valid Until	10 / 09 / 2025
Issue Date	11 / 09 / 2020
Status	Valid

510(k) Premarket Notification

Device Classification Name	Mask, Surgical
510(K) Number	K172500
Device Name	Technoweb Surgical Mask
Applicant	YTS GLOBAL INC. 7406 ALBAN STATION CT STE A 108 Springfield, VA 22150
Applicant Contact	Eddie Nguyen
Correspondent	YTS GLOBAL INC. 7406 ALBAN STATION COURT SUITE A108 Springfield, VA 22150
Correspondent Contact	Eddie Nguyen
Regulation Number	878.4040
Classification Product Code	FXX
Date Received	08/18/2017
Decision Date	03/01/2018
Decision	Substantially Equivalent (SESE)
Regulation Medical Specialty	General & Plastic Surgery
510k Review Panel	General Hospital
Summary	Summary
Type	Traditional
Reviewed By Third Party	No
Combination Product	No

Establishment Registration & Device Listing

New Search | Back To Search Results

Proprietary Name:	Air Queen; PM95; Pure MSK; Technoweb
Classification Name:	MASK, SURGICAL
Product Code:	FXX
Device Class:	2
Regulation Number:	878.4040
Medical Specialty:	General & Plastic Surgery
Registered Establishment Name:	Nano Filter Asan Manufacturing Facility
Registered Establishment Number:	3016959291
Premarket Submission Number:	K172500
Owner/Operator:	Pure Msk, Inc
Owner/Operator Number:	10069865
Establishment Operations:	Manufacturer

Product Classification

New Search | Back to Search Results

Device	Mask, Surgical
Regulation Description	Surgical apparel.
Regulation Medical Specialty	General & Plastic Surgery
Review Panel	General Hospital
Product Code	FXX
Premarket Review	Infection Control and Plastic Surgery Devices (DHT4B) Infection Control and Plastic Surgery Devices (DHT4B)
Submission Type	510(k)
Regulation Number	878.4040
Device Class	2
Total Product Life Cycle (TPLC)	TPLC Product Code Report
GMP Exempt?	No
Summary Malfunction Reporting	Eligible

Recognized Consensus Standards

- 6-254 ASTM F2100-11 (Reapproved 2018)
  Standard Specification for Performance of Materials Used in Medical Face Masks
- 6-335 ASTM F2101-14
  Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of Staphylococcus aureus
- 6-406 ASTM F1862/F1862M-17
  Standard Test Method for Resistance of Medical Face Masks to Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume at a Known Velocity)
- 6-425 ASTM F2100-19
  Standard Specification for Performance of Materials Used in Medical Face Masks
- 6-427 ASTM F2101-19
  Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of Staphylococcus aureus

Implanted Device?	No
Life-Sustain/Support Device?	No

Third Party Review

- Eligible for *Accredited Persons Program*

Accredited Persons

- Accelerated Device Approval Services
- Biomarkers And Diagnostics Consulting, Llc
- Regulatory Technology Services, Llc
- Third Party Review Group, Llc

2020

CERTIFICATE OF REGISTRATION

This certifies that:

TOPTEC CO., LTD.
122 Asanvalley-Ro
Dunpo-Myeon
Asan-Si Chungcheongnamdo, KR 310409

is registered with the U.S. Food and Drug Administration for FY 2020 pursuant to Title 21, 807 et seq. of the United States Code of Federal Regulations:

Establishment Registration:	**3016790437**
Device Classification Name:	**MASK, SURGICAL**
Product Code:	**FXX**
Regulation Number:	**878.4040**

Registrar Corp
144 Research Drive, Hampton, Virginia, 23666, USA
Telephone: +1-757-224-0177 • Fax: +1-757-224-0179

Registrar Corp will confirm that such registration remains effective upon request and presentation of this certificate until the end of the year stated above, unless said registration is terminated after issuance of this certificate. Registrar Corp makes no other representations or warranties, nor does this certificate make any representations or warranties to any person or entity other than the named certificate holder, for whose sole benefit it is issued. This certificate does not denote endorsement or approval of the certificate-holder's device or establishment by the U.S. Food and Drug Administration. Registrar Corp assumes no liability to any person or entity in connection with the foregoing.

Pursuant to 21 CFR 807.39, "Registration of a device establishment or assignment of a registration number does not in any way denote approval of the establishment or its products. Any representation that creates an impression of official approval because of registration or possession of a registration number is misleading and constitutes misbranding."

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Registrar Corp
144 Research Drive, Hampton, Virginia, 23666, USA
Telephone: +1-757-224-0177 • Fax: +1-757-224-0179
info@registrarcorp.com • www.registrarcorp.com

David Lennarz
Executive Director
Registrar Corp
Dated: May 15, 2020

한국할랄인증서
CERTIFICATE OF KOREA HALAL

korea halal

인증번호 (Certification No):KHA-20F-00362904

한국할랄인증원(KHA)은 아래 조직에서 생산되는 제품에 대하여 다음 인증규격의 요구사항에 적합함을 인증합니다.
Korea Halal Authority(KHA) certifies that product manufactured by the Below organization complies with the requirements and certification scope of the following certification standards.

회사명(Name of Company): 주식회사 톱텍/ TOPTEC CO., Ltd

회사주소(Company Address): 충남 아산시 둔포면 아산밸리로 122
122, Asanvalley-ro, Dunpo-myeon, Asan-si, Chungcheongnam-do, Korea

인증제품명(Name of Products): 나노 마스크(Air Queen)/ Nano Mask(Air Queen)

인증규격(Certification standard): KHAS 29000-할랄 공산용품 일반 규정
KHAS 29000-General Standards For HALAL Industrial Products

이 인증서에 명시되지 않은 다른 제품들은 할랄 제품으로 인정하지 않습니다.
We do not approve of any other products not specified in this certificate as Halal.

인증발행일자(Certification Date of issue): 29.04.2020
인증만료일자(Certification Expiration Date): 28.04.2021

대 표 이 사
Chief Executive Officer
Safiah Weon-Suk Kim

한국할랄인증원
KOREA HALAL AUTHORITY

Test Report No. F690101/LF-CTSAYHA20-03414

Issued Date : 2020. 04. 03

LEMON CO., LTD.
1105-65. Sanho-daero, Sandong-myeon
Gumi-city, Gyeongsangbuk-do
Korea

The following sample(s) was/were submitted and identified by/on behalf of the client as:-

SGS File No.	:	AYHA20-03414
Product Name	:	PVDF Nano fiber filter non woven fabrics
Item No./Part No.	:	LM-3-0C22-03H
Received Date	:	2020. 03. 31
Test Period	:	2020. 03. 31 to 2020. 04. 03
Test Results	:	For further details, please refer to following page(s)

SGS Korea Co., Ltd.

Tommy Oh / Chemical Lab Mgr

SGS Korea Co.,Ltd.
322, The O valley, 76, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do, Korea 14117
t +82 (0)31 4608 000 f +82 (0)31 4608 059 http://www.sgsgroup.kr

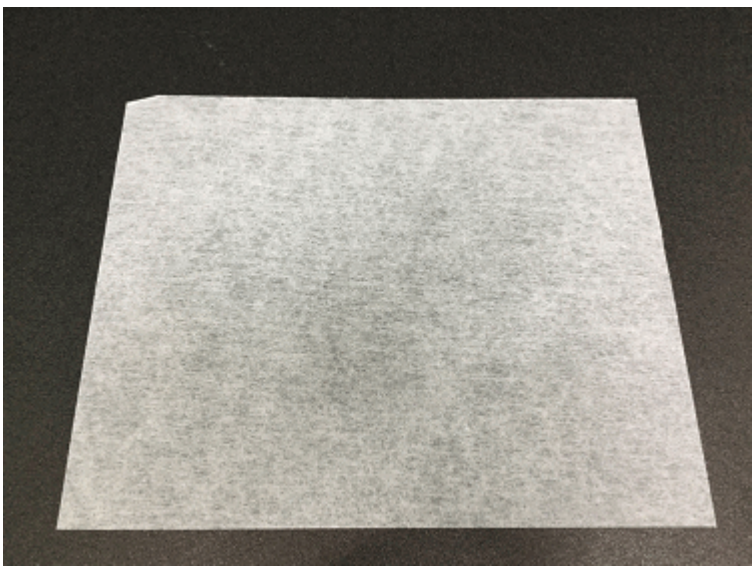
Sample No. : AYHA20-03414.001
Sample Description : PVDF Nano fiber filter non woven fabrics
Item No./Part No. : LM-3-0C22-03H
Materials : PVdF

Other(s)

Test Items	Unit	Test Method	MDL	Results
DMAc (N,N-Dimethylacetamide)	mg/kg	In-House method, GC/MS	10	N.D.

NOTE:
(1) N.D. = Not detected.(<MDL)
(2) mg/kg = ppm
(3) MDL = Method Detection Limit
(4) - = No regulation
(5) ** = Qualitative analysis (No Unit)
(6) Negative = Undetectable / Positive = Detectable
(7) The results shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test report is not related to Korea Laboratory Accreditation Scheme.

Picture of Sample as Received:



AYHA20-03414.001

*** End of Report ***

SGS Korea Co.,Ltd.
322, The O valley, 76, LS-ro, Dongan-gu, Anyang-si, Gyeonggi-do, Korea 14117
t +82 (0)31 4608 000 f +82 (0)31 4608 059 http://www.sgsgroup.kr

GERMAN CERT

Environmental Management System Certificate

㈜톱텍

충청남도 아산시 둔포면 아산밸리로 122

저먼서트 주식회사는 위 회사의 심사규격과 인증범위가 아래의 환경경영시스템 요구사항을 모두 충족하고 있음을 검증하고 인증 등록을 승인하였습니다.

ISO 14001:2015

인증범위

자동화 설비 및 기계의 설계, 개발 및 제작

인증번호 : **KorE-081203**

최초 인증일 : 2005년 07월 30일
인증 승인일 : 2017년 07월 28일
인증 만료일 : 2020년 07월 28일

GERMAN CERT
ENVIRONMENTAL MANAGEMENT SYSTEM

Daek Woo Ki

Scheme Manager

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

DAkkS Deutsche Akkreditierungsstelle D-ZM-16096-01-00

GERMAN CERT ISO 14001 REGISTERED

GERMAN CERT

Environmental Management System Certificate

TOPTEC CO., LTD.

#122 Asan valley-ro, Dunpo-myeon, Asan-si, Chungcheongnam-do, Korea

German Cert Co., Ltd. Hereby certifies that the Environmental Management System of the above organization has been evaluated and found to be in line with the requirements of the following standard:

ISO 14001:2015

For the scope of

Design, Development and Manufacture of Automatic Facility and Machine

Certificate Number : **KorE-081203**

Initial Certification Date : 30 July 2005
GC Certification Date : 28 July 2017
Certification Expiry Date : 28 July 2020

GERMAN CERT
ENVIRONMENTAL MANAGEMENT SYSTEM

Daek Wook

Scheme Manager

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

DAkkS Deutsche Akkreditierungsstelle D-ZM-16096-01-00

GERMAN CERT GERMAN CERT ISO 14001 REGISTERED

UNIVERSAL

UNIVERSAL
CERTIFICATION

NB 2163

EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163-PPE-1433

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

TOPTEC CO., LTD.

140-22, Cheomdangieop 5-ro, Sandong-myeon, Gumi-si, Gyeongsangbuk-do, Republic of Korea

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

Brand Name: Air Queen **Model:** Breeze Mask
Filtering half mask
Classification: FFP2 NR

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 no later than 1 year from the beginning of serial production

This certificate is initially issued on **11/09/2020** and will be valid for 5 years, if there is no change in the relevant harmonised standard affecting the essential health and safety requirements.

CE
2163

Suat KAÇMAZ
UNIVERSAL CERTIFICATION
Director

Verify the validity with the QR code

Necip Fazıl Bulvarı Keyap Sitesi E2 Blok No:44/84 Yukarı Dudullu Ümraniye - İSTANBUL - TURKEY T:+90 216 455 80 80
UNIVERSALCERT.COM

UNIVERSAL
CERTIFICATION

TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO: 11.09.2020 / KKD-2163-1433

Manufacturer: TOPTEC CO., LTD.

Address: 140-22, Cheomdangieop 5-ro, Sandong-myeon, Gumi-si, Gyeongsangbuk-do, Republic of Korea

This report is for the, given above, applicant body prepared according to the test results report conducted by UNIVERSAL CERTIFICATION dated 10.09.2020 with Serial No 09-2020-T0366 based on EN 149: 2001 + A1: 2009 standard and the technical file dated 08 May 2020 version 00 provided by manufacturer.

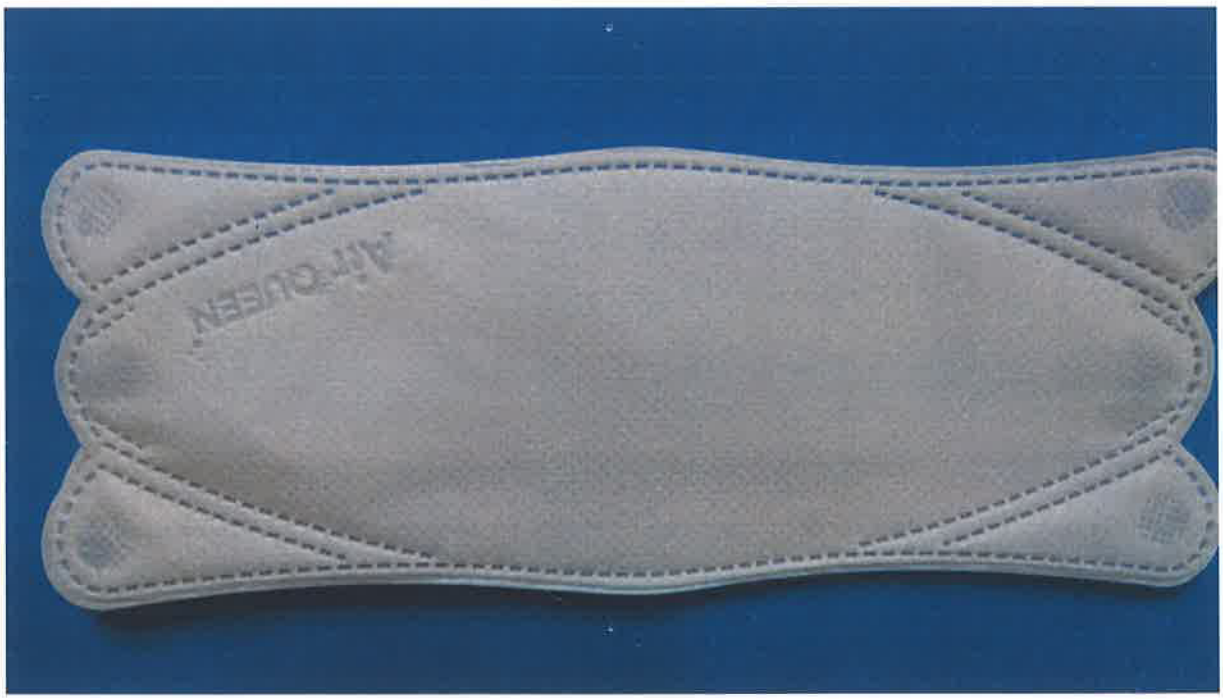
The technical file of the manufacturer, and risk evaluation against the essential health safety requirements and the test report evaluated for their relation with Essential Requirements of Personel Protective Equipment Regulation and found to be appropriate.

This report is an annex and an integral part of the EU Type Examination Certificate issued to the manufacturer. The test results and issued certificate belongs only to the tested model. The technical report consists of a total of 6 pages.

Product Description: Particle Filtering Half Mask

Classification: FFP2 NR

Trademark: Air Queen **Model:** Breeze Mask



UNIVERSAL CERTIFICATION 2163 Notified Body

UNIVERSAL SERTİFİKASYON VE GÖZETİM HİZM. TİC. LTD. ŞTİ. Keyap Ticaret Merkezi, Necip Fazıl Bulvarı, E2 Blok, No:44/84 Y. Dudullu - Ümraniye - İSTANBUL T:+90 216 455 80 80 F:+90 216 455 80 08 info@universalcert.com

UNIVERSAL
CERTIFICATION

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. The test resuts with human subjects did not report any problem with the ergonomics of the product.

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. The manufacturer declares in his technical file that according to the results of risk analysis and the material properties they use in the manufacturing, the product has no hazardous content for health.

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. The material selection is processed in the technical manufacturing process and documented.

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 is evaluated and reported in the test report.

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

UNIVERSAL CERTIFICATION 2163 Notified Body

UNIVERSAL SERTİFİKASYON VE GÖZETİM HİZM. TİC. LTD. ŞTİ. Keyap Ticaret Merkezi, Necip Fazıl Bulvarı, E2 Blok, No:44/84 Y. Dudullu - Ümraniye - İSTANBUL T:+90 216 455 80 80 F:+90 216 455 80 08 info@universalcert.com

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. The product is for single use and tested with simulated wearing conditioning.

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.

UNIVERSAL CERTIFICATION CE 2163 Notified Body

UNIVERSAL SERTİFİKASYON VE GÖZETİM HİZM. TİC. LTD. ŞTİ. Keyap Ticaret Merkezi, Necip Fazıl Bulvarı, E2 Blok, No:44/84 Y. Dudullu - Ümraniye - İSTANBUL T:+90 216 455 80 80 F:+90 216 455 80 08 info@universalcert.com

UNIVERSAL
CERTIFICATION

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 + A1:2009 Standard Requirements	
Article 5	**Classification:** Particle Filtering Half Mask The mask subject to evaluation based on the test results and technical file provided by the manufacturer is classified as; Filtering Efficiency and maximum Total Inward Leakage: Classified as FFP2 Mask is classified for single shift use, NR
Article 7.4	**Packing:** Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to prevent mechanical damage. The packaging design and the product is considered to withstand the foreseeable conditions of use based on the visual inspection results given in the test report.
Article 7.5	**Material:** Materials used in particle filtering half masks, according to the simulated wearing treatment and temperature conditioning results; It is understood it withstands handling and wear over the period for which the particle filtering half mask is designed to be used, it suffered mechanical failure of the facepiece or straps, any material from the filter media released by the air flow through the filter has not constitute a hazard or nuisance for the wearer. The manufacturer declares that the materials used in manufacturing of the mask does not have an adverse affect to the health and safety of users. Based on the test results, the masks did not collapse when subject to simulated wearing and temarature conditioning. No nuisance situation is reported during the practical performance tests by human subjects.
Article 7.6	**Cleaning and Disinfection:** Particle filtering half mask is **not** designed to be as re-usable. No cleaning or disinfection procedure provided by the manufacturer.
Article 7.7	**Practical Performance :** The test report indicates that the human subjects did not face any difficulty in performing the excercises while they were weared by the sample masks, in walking test or work simulation tests. The wearers did not report any failure by means of head harness / straps/ earloops comfort, security of fastenings and field of vision. Also no imperfactions reported during total inward tests about the comfort, field of vision and fastening issues.

Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result
2.Head harness comfort	2	0	Positive results are obtained from the test subjects **No imperfections**
3.Security of fastenings	2	0	
5.Field of vision	2	0	

Conditioning : (A.R.) As Received, original

Article 7.8	**Finish of Parts:** Particle filtering half masks, which are likely to come into contact with the user, do not have sharp edges and do not contain burrs.
Article 7.9.1	**Total Inward Leakage:** The Total Inward Lekage test is conducted by 10 individual in an aerosol chamber with a walking band, and samples are taken during the condcution of the excercises defined in the standard. The samples used in the test are subjected to the conditioning required in the standard as Temperature conditioning and as received. The face dimensions of the subjects are also reported. The measurement details for each subject and for each excersize are available in the test report. It was reported that; All 50 exercise measurement results are smaller or equal to 11%, the values varies between 6,36 % and 8,19 %. All 10 individual's arithmetic mean is smaller or equal to 8%, the values varies between 6,92 % and 7,69 %. **According to the reported results, the product meets the limits for FFP1 and FFP2 classification.**
Article 7.9.2	**Penetration of filter material:** Sodium Chloride Testing

Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result
(A.R.)	36	0,51		
(A.R.)	37	0,13		
(A.R.)	38	0,09	FFP1 ≤ 20 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the **FFP1, FFP2, FFP3** classes.
(S.W.)	1	0,40		
(S.W.)	2	0,67	FFP2 ≤ 6 %	
(S.W.)	3	0,48		
(M.S. T.C.)	10	0,38	FFP3 ≤ 1 %	
(M.S. T.C.)	11	0,44		
(M.S. T.C.)	12	0,33		

Conditioning : (M.S.) Mechanical Strength
(T.C.) Temperature Conditioning
(A.R.) As Received, original
(S.W.) Simulated wearing treatment

95 L/min = 1,6 $dm^3.sn^{-1}$

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Article 7.9.2

Penetration of filter material: : Paraffin Oil Testing

Condition	No. of Sample	Paraffin Oil Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result
(A.R.)	39	0,98		
(A.R.)	40	0,51		
(A.R.)	41	0,21	FFP1 ≤ 20 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the **FFP1, FFP2** classes.
(S.W.)	4	0,99		
(S.W.)	5	0,91	FFP2 ≤ 6 %	
(S.W.)	6	1,03		
(M.S. T.C.)	13	0,82	FFP3 ≤ 1 %	
(M.S. T.C.)	14	0,96		
(M.S. T.C.)	15	1,04		

Conditioning : (M.S.) Mechanical Strength
(T.C.) Temperature Conditioning
(A.R.) As Received, original
(S.W.) Simulated wearing treatment

Article 7.10

Compatibility with skin: In Practical Performance report, the likelihood of mask materials in contact with the skin causing irritation or other adverse effect on health was not reported.

Article 7.11

Flammability :

Condition	No. of Sample	Visual inspection	Requirements in accordance with EN 149:2001 + A1:2009	Result
(A.R.)	45	0,9 s	Filtering half mask shall not burn or not continue to burn for more than 5 s after removal from the flame	**Passed**
(A.R.)	46	0,9 s		
(T.C.)	21	2,1 s		Filtering half masks fulfill requirements of the standard
(T.C.)	22	2,1 s		

Conditioning : (A.R.) As Received, original
(T.C.) Temperature Conditioning

Article 7.12

Carbon dioxide content of the inhalation air:

Condition	No. of Sample	CO_2 content of the inhalation air [%] by volume	An average CO_2 content of the inhalation air	Requirements in accordance with EN 149:2001 + A1:2009	Result
(A.R.)	26	0,80	0,69 [%]	CO_2 content of the inhalation air shall not exceed an average of 1,0% by volume	**Passed**
(A.R.)	27	0,65			
(A.R.)	28	0,62			Filtering half masks fulfil requirements of the standard

Conditioning : (A.R.) As Received, original

Article 7.13

Head harness: In Practical Performance and TIL test reports no adverse effects have been reported for donning and remove of the mask also the results of these tests indicates that the ear loops / head harness are capable of holding the mask firmly enough.

Article 7.14

Field of vision: In Practical Performance report, no adverse effects were reported for the field of vision availability when the mask is weared.

Article 7.15

Exhalation Valve(s): The model under inspection have no valves.

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. The measurement details for each single mask tested are available in the test report.

Passed.

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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 technical file. The technical documentation for mask design (drawing) also evaluated for marking requirements, drawing Air Queen Breeze Mask. The mask template (drawing) indicates that the mask will carry information about the manufacturer / trademark (Air Queen) of the manufacturer, Type of mask, the reference to EN 149+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. The marking statement given in the technical documentation was not available on the tested specimen, the manufacturer shall consider to use the marking as stated in the technical file in case of serial manufacturing. Model Breeze Mask drawing exists in the technical file of the manufacturer.
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. The manufacturer shall include this documented user information text in every smallest commertially available package.

PREPARED BY	APPROVED BY
Osman CAMCI PPE Expert	**Suat KAÇMAZ** General Manager

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CERTIFICATE OF CONFORMANCE

Certificate No: 2163-PPE-1433/01

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

TOPTEC CO., LTD.

140-22, Cheomdangieop 5-ro, Sandong-myeon, Gumi-si, Gyeongsangbuk-do, Republic of Korea

Continues to fulfil the requirements of

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

Based on the audit reports on the quality system implemented by the manufacturer for conformity to type based on quality assurance of the production process according to EN 149+A1:2009 and Personal Protective Equipment Regulation (EU) 2016/425 Annex VIII (Module D). This certificate implies that the manufactured products shown below are in conformance with the approved EU Type Examination model and meets the requirements of the regulation.

Product Definition

Model	Class	EU Type Examination Certificate		
		Serial No	Date	Issuing NB No
Air Queen / Breeze Mask	FFP2 NR	2163-PPE-1433	11.09.2020	2163

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**.
- Taking all measures necessary so that the manufacturing process and its monitoring ensure the homogeneity of production and conformity of the manufactured PPE with the type described in the EU type examination certificate.

This certificate is issued on **09/10/2020** and will be valid for 3 months, until **09/01/2021** if the manufacturer makes no major change in the product designs and manufacturing processes affecting the product performance on the essential health and safety requirement.

CE
2163

Suat KAÇMAZ
UNIVERSAL CERTIFICATION
Director

Verify the validity with the QR code

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