DATASHEET

FACE MASKS

PROTECTION AGAINST PRCERTAIN AIRBORNE PARTCLES AND DUST,BLOCK BODY FLUIDS AND SO ON.

INSTRUCTIONS FOR USE

Product Name: Protective Mask
Models: KDD1001
FFP2 NR defined in EN 149:2001+A1:2009
Size: 10.9*16cm(±0.5cm)
EN 149:2001+A1:2009

Indications For Use:
The protective mask is intended used for protection against solid and oily particulates, liquid and microorganisms such as coal dust, cement dust, acid fog, paint fog, oil smoke, oil mist, asphalt smoke, coke oven smoke etc. Single-use.

Limitations
a.Not suitable for working places where open flames exist (such as welding,casting,etc,);
b.It is not suitable for professional protective use such as oxygen deficient, toxic gas environment.
c.No medical use.

Checks prior to use
Please check whether the packaging is damaged, whether the mask body is damaged, deformed or has other obvious defects before use.

Fitting
a.Open the mask evenly
b.Face the facet of the mask without the nose clip,position the nose clip above the mask
c.Pull the earband behind the ear
d.In the middle of the nose clip, press inward from the middle to the sides according to the shape of the bridge until it is completely pressed into the shape of the bridge of the nose,the mask's tightness may be affected if the nose clip is held with only one hand
e.Check the mask for tightness with the face

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Use cautions:
a) Please check fit of mask prior to use;
b) It is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal;
c) Please do not use the mask under low air quality condition, such as serious contaminants in air, oxygen deficiency;
d) Do not use the mask in explosive atmosphere;
e) After use, please discard the mask following local regulation; f) The mask is only for single use, do not use repeatedly.

Storage Condition:
The product should be stored in a well ventilated, dark and dry environment. Keep away from fire, pollutants and possible pollution sources. Also, the transport storage 's temperature: -20℃~40℃, relative humidity: <80%RH.

Shelf-Life:
The Protective Mask is valid for 3 years with the above storage condition.

Symbol on the label:

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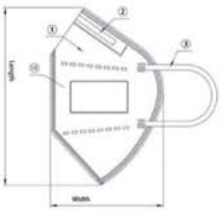
FACE MASKS

PROTECTION AGAINST PRCERTAIN AIRBORNE PARTCLES AND DUST,BLOCK BODY FLUIDS AND SO ON.

Product model and structure

Product structure

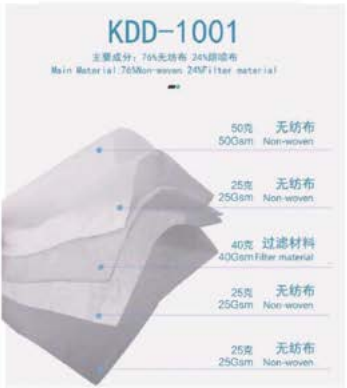
The Professional Protective Mask consists of mask body, nose piece and ear straps.



① Mask body
② Nose piece
③ Ear straps
⑩marking
Length: 16cm±0.5cm
Width: 10..9cm±0.5cm

Figure 1 The mask drawing

Figure 2 Structure of mask body (①)



DATASHEET

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Materials of product:

Table 1 Materials and Specifications unit:cm

Components	Materials	Specification: L × W
Nose piece	white PE, silver coated iron wire+sponge	8.5CM (±0.3CM) × 0.5CM (±0.05CM)
Ear straps	Nylon, spandex	18.5CM (±0.5CM)× 0.5CM (±0.05CM)
Mask body	Non-woven , Filter material	16CM(±0.5cm)× 10.9CM (±0.5cm)

Experts in Safety

An Expert Advice Sheet

Type II Face Masks

When to specify a respirator or a face mask and selecting the right Type II mask

This advice has been written to assist in the selection of face masks and respirators to ensure that the higher levels of protective equipment are issued only where necessary. This will avoid critical supplies being diverted and will enable them where they are most needed.

Step 1: Determine the protection required

Assess the hazardous substance in the environment and the level of risk posed to workers, this will include the risk of exposure to viral infection. Issue the most appropriate personal protective equipment (PPE) to minimise that risk. If full respiratory protection is not required, then a face mask will be a more suitable alternative.

See the guide to the differences between and the use of face masks and respirators on page 2.

Step 2: Determine whether a Type II or Type IIR face mask is required

Medical face masks are recommended as a means of source control, i.e. they decrease the transmission of a virus by preventing the spread of respiratory droplets produced by coughing or sneezing.

Medical face masks are classified into two types: Type I and Type II according to their Bacterial Filtration Efficiency (BFE). The BFE determines the amount of infective agent retained by the facemask and therefore directly relates to the amount of bacteria released through the mask and into the environment.

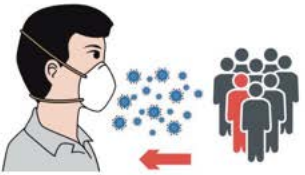
Type II masks are further divided according to their Splash Resistance Pressure which determines the mask's resistance level to potentially contaminated fluid splashes.

- A Type IIR mask is splash resistant, the letter 'R' signifies splash resistance.
- A Type II mask is not splash resistant.

Splash resistance is required in clinical settings to protect the wearer against splashes of blood or bodily fluids.

See the guide to the differences between Type II and Type IIR Face Masks on page 3.

The Difference Between Face Masks and Respirators

	Face Mask	Respirator
		
	A loose-fitting disposable mask that creates a physical barrier between the wearer's nose and mouth and contaminants. Also known as medical or surgical masks they are classifed as Type I, Type II or Type IIR	A respiratory protective device designed to achieve a very close facial fit and very efficient filtration of airborne particles. Also known as Filtering Face Piece and classified as FFP1, FFP2, or FFP3.
Use	**PREVENTS** wearer's respiratory droplets contaminating other persons & surfaces. Fluid splash resistant masks can also protect the wearer against large droplets or sprays of hazardous fluids	**PROTECTS** wearers by reducing their risk of inhaling hazardous airborne particles in the environment including small particle aerosols and droplets
		
Fit	**Loose Fitting** Fits loosely over the face. The edges of the mask are not designed to seal fully around the nose and mouth	**Tight Fitting** Fits tightly to the face and creates a seal between the face and respirator
		
Face Fit Testing	No, but donning and doffing protocols should be observed	Yes. Plus, a user seal check is required each time the respirator is put on. Also donning and doffing protocols should be observed
Use in Health Care	› In cohorted areas (but no patient contact) › Close patient contact (within one metre)[1] › Sessional use in a specific clinical care setting or exposure environment[2]	› When carrying out aerosol generating procedures (AGP) on a patient with possible or confirmed COVID-19 › In high risk areas where AGPs are being conducted
Use in Industry	Not currently recommended but could be considered: › Certain workplaces and professions that involve physical proximity to many other people	In any environment where a risk assessment has identified a hazardous substance and specified the use of a FFP3 or FFP2 respirator
Use in Community Settings	Not currently recommended but could be considered: › When using public transport › When visiting busy, closed spaces, such as grocery stores, shopping centres, etc. › See [3] WHO advice for decision makers about the use of masks in community settings	**It is not recommended that the general public wear respirators to protect themselves from respiratory diseases, including coronavirus (COVID-19). These are critical supplies that must continue to be reserved for health care workers and other medical first responders**

Differences between and recommended use for Type II and Type IIR Face Masks

	Type II Masks	Type IIR Masks
Suitable for:	General activities where there is no risk of exposure to blood and/or body fluid and unlikely exposure to viruses	Those with a genuine need for splash resistance in situations with risk of fluid contamination and viruses
		
Use in Health Care	› Enhancing infection control › Preventing the risk of cross-contamination › Low-risk clinical applications that do not involve blood-borne pathogens or bodily fluids	› In cohorted areas (but no patient contact) › Close patient contact (within one metre)[1] › Sessional use in a specific clinical care setting or exposure environment [2] › Ambulance crews › Care home staff
Use in Industry	Not currently recommended but could be considered: › For certain workplaces and professions that involve physical proximity to many other people	› Prison officers › Police or security (those in close proximity to Covid 19 cases)
Use in Community Settings	Not currently recommended for general use but could be considered: › When using public transport › When visiting busy, closed spaces, such as grocery stores, shopping centres, etc. › See [3] WHO advice for decision makers about the use of masks in community settings	**It is not recommended that the general public wear Type II R Medical Masks (B441896) to protect themselves from respiratory diseases, including coronavirus (COVID-19). These are critical supplies that must continue to be reserved for health care workers and other medical first responders**

[1] NHS England - When to wear a face mask or a FFP3 Respirator
www.rdash.nhs.uk/wp-content/uploads/2017/08/Appendix-47-Surgical-Face-Mask-FFP3.pdf
[2] Public Health England - COVID-19 personal protective equipment (PPE)
www.gov.uk/government/publications/wuhan-novel-coronavirus-infection-prevention-and-control/covid-19-personal-protective-equipment-ppe
[3] World Health Organisation - Advice on the use of masks in the context of COVID-19
www.who.int/publications-detail/advice-on-the-use-of-masks-in-the-community-during-home-care-and-in-healthcare-settings-in-the-context-of-the-novel-coronavirus-(2019-ncov)-outbreak

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Applus

CERTIFICADO DE EXAMEN UE DE TIPO
EU-TYPE EXAMINATION CERTIFICATE

CE

Notified Body No. 0370

ENAC CERTIFICACIÓN Nº 12/C-PR054

No. **0370-4251-PPE/B**

ORGANISMO NOTIFICADO Nº *NOTIFIED BODY NUMBER*	**0370 - LGAI TECHNOLOGICAL CENTER** (APPLUS)
SOLICITANTE *APPLICANT*	**Qingdao KANGDUODUO Protective Equipment Co.,Ltd** West of Sili Village,Lancun Town,Jimo District,Qingdao City,Shandong Province,China.
FABRICANTE *MANUFACTURER*	**Qingdao KANGDUODUO Protective Equipment Co.,Ltd** West of Sili Village,Lancun Town,Jimo District,Qingdao City,Shandong Province,China.

REGLAMENTO DE APLICACIÓN PARA DAR LA CONFORMIDAD / *APPLICABLE REGULATION TO GIVE CONFORMITY:*

REGLAMENTO (UE) 2016/425 SOBRE LOS EQUIPOS DE PROTECCIÓN INDIVIDUAL
REGULATION (EU) 2016/425 PERSONAL PROTECTIVE EQUIPMENT

PROCEDIMIENTO DE EVALUACIÓN DE LA CONFORMIDAD *CONFORMITY ASSESSMENT PROCEDURE*	Módulo // *Module*: **B** **EXAMEN UE DE TIPO /** *EU TYPE EXAMINATION*
IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO) *IDENTIFICATION OF THE PPE (TYPE NUMBER)*	Ref.: KDD1001 Protective Mask
NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI / *PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE*	FFP2 NR
NORMAS ARMONIZADAS / *HARMONISED STANDARDS*	EN 149:2001 + A1:2009 Dispositivos de protección respiratoria. Medias máscaras filtrantes de protección contra partículas. Requisitos, ensayos, marcado. *EN 149:2001 + A1:2009 Respiratory protective devices. Filtering half masks to protect against particles. Requirements, testing, marking*
FECHA DE EMISIÓN / *ISSUE DATE*	**25/08/2020**
VALIDEZ HASTA / *VALIDITY UNTIL*	**25/08/2025**

El presente certificado se mantendrá vigente durante 5 años siempre que el producto descrito no sea modificado y cumpla los requisitos esenciales de salud y seguridad establecidos en el Reglamento (UE) 2016/425. Para asegurar dicho cumplimiento, este certificado deberá ir acompañado de la documentación correspondiente a la Evaluación de Conformidad con el tipo según módulo C2, D (realizada por un Organismo Notificado, según frecuencia establecida).

This certificate will remain valid for 5 years as long as the indicated product is not modified and fulfills the essential requirements of health and safety established in (EU) Regulation 2016/425. To ensure such compliance, this certificate must be accompanied by the documentation corresponding to the Conformity Assessment to type according to C2, D(carried out by a Notified Body according, to the established frequency).

Applus LGAI Technological Center, S.A.
Xavier Ruiz Peña
Managing Director, Product Conformity B.U.

Este documento carece de validez sin su anexo técnico, cuyo número coincide con el del certificado.
This document is not valid without its technical annex, whose number coincides with the number of certificate.

Puede comprobarse la validez de este certificado en nuestra página web / *You can check the validity of this certificate into our website at: www.applusiaboratories.com/certified_products*

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ANEXO TÉCNICO
TECHNICAL ANNEX

0370-4251-PPE/B

I. MODELOS INCLUIDOS EN EL CERTIFICADO

REFERENCES INCLUDED IN THIS CERTIFICATE

MARCA *BRAND*	Shining Time
IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO) *IDENTIFICATION OF THE PPE (TYPE NUMBER)*	Ref.: KDD1001 Protective Mask
NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI *PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE*	FFP2 NR
INFORME DE ENSAYO *TEST REPORT*	PTC20063005801C-EN01V02 issued by Precise Testing & Certification (Guangdong) Co.,Ltd.(PTC)

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CERTIFICADO DE CONFORMIDAD CON EL TIPO
CONFORMITY TO TYPE CERTIFICATE

Organismo Notificado Nº 0370

No. 0370-4475-PPE/C2

ORGANISMO NOTIFICADO Nº *NOTIFIED BODY NUMBER*	**0370 - LGAI TECHNOLOGICAL CENTER** (APPLUS)
SOLICITANTE *APPLICANT*	**Qingdao KANGDUODUO Protective Equipment Co.,Ltd** West of Sili Village,Lancun Town,Jimo District,Qingdao City,Shandong Province,China.
FABRICANTE *MANUFACTURER*	**Qingdao KANGDUODUO Protective Equipment Co.,Ltd** West of Sili Village,Lancun Town,Jimo District,Qingdao City,Shandong Province,China.
REGLAMENTO DE APLICACIÓN PARA DAR LA CONFORMIDAD / *APPLICABLE REGULATION TO GIVE CONFORMITY:* **REGLAMENTO (UE) 2016/425 SOBRE LOS EQUIPOS DE PROTECCIÓ INDIVIDUAL** *REGULATION (EU) 2016/425 PERSONAL PROTECTIVE EQUIPMENT*	
PROCEDIMIENTO DE EVALUACIÓN DE LA CONFORMIDAD CON EL TIPO *CONFORMITY ASSESSMENT PROCEDURE TO TYPE*	Módulo // *Module*: **C2** **BASADA EN EL CONTROL INTERNO DE LA PRODUCCIÓN MÁS EL CONTROL SUPERVISADO DE LOS PRODUCTOS A INTERVALOS ALEATORIOS** *BASED ON INTERNAL PRODUCTION CONTROL PLUS SUPERVISED CONTROL OF PRODUCTS AT ALEATORY INTERVALS*
IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO) *IDENTIFICATION OF THE PPE (TYPE NUMBER)*	Ref.: KDD1001 Protective Mask
NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI / *PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE*	FFP2 NR
FECHA DE EMISIÓN / *ISSUE DATE*	**23/09/2020**
VALIDEZ HASTA / *VALIDITY UNTIL:*	**23/09/2021**
El presente certificado se mantendrá vigente durante 1 año siempre que no se modifiquen las condiciones establecidas en el Certificado de Examen UE de Tipo referenciado en el Anexo. *This certificate will remain in force for 1 year as long as the conditions established in the EU Type certificate referenced in the annex are not modified.*	

Applus
LGAI Technological Center, S.A.

Xavier Ruiz Peña
Managing Director, Product Conformity B.U.

Este documento carece de validez sin su anexo técnico, cuyo número coincide con el del certificado.
This document is not valid without its technical annex, whose number coincides with the number of certificate.

Puede comprobarse la validez de este certificado en nuestra página web / *You can check the validity of this certificate into our website at:* *www.appluslaboratories.com/certified_products*

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ANEXO TÉCNICO
TECHNICAL ANNEX

0370-4475-PPE/C2

I. MODELOS INCLUIDOS EN EL CERTIFICADO

REFERENCES INCLUDED IN THIS CERTIFICATE

Nº CERTIFICADO DE EXAMEN UE DE TIPO *NR. EU TYPE EXAMINATION CERTIFICATE*	**0370-4251-PPE/B**
EMITIDO POR *ISSUED BY*	LGAI TECHNOLOGICAL CENTER S.A. (APPLUS) **(Organismo notificado nº 0370 /** *Notified Body nr. 0370***).**
FECHA EMISIÓN *ISSUE DATE*	25/08/2020
VALIDEZ HASTA *VALIDITY UNTIL*	25/08/2025
MARCA *BRAND*	Shining Time
IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO) *IDENTIFICATION OF THE PPE (TYPE NUMBER)*	Ref.: KDD1001 Protective Mask
NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI / *PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE*	FFP2 NR
INFORME DE ENSAYO DE CONFORMIDAD CON EL TIPO *CONFORMITY TO TYPE TEST REPORT*	PTC20081000801C-EN01 issued by Precise Testing & Certification (Guangdong) Co.,Ltd.(PTC).

中国认可
国际互认
检测
TESTING
CNAS L5772

Test Report

EN 149:2001+A1:2009 protective devices. Filtering half masks to protect against particles. Requirements, testing, marking

Product:	Protective Mask
Report No.:	PTC20063005801C-EN01V02
Client:	Qingdao KANGDUODUO Protective Equipment Co.,Ltd
Client Address:	West of Sili Village,Lancun Town,Jimo District,Qingdao City,Shandong Province,China.
Manufacturer:	Qingdao KANGDUODUO Protective Equipment Co.,Ltd
Manufacturer Address:	West of Sili Village,Lancun Town,Jimo District,Qingdao City,Shandong Province,China.
Contact:	YAO DONG
Model(s):	KDD1001
Classification:	FFP2 NR
Date of Tests:	2020.07.06~2020.07.26

Signed for and on Behalf of PTC

Prepare by: Checked by: Approved by:

Precise Testing & Certification (Guangdong) Co., Ltd. (PTC)
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.
Tel: 86-769-38808222 Fax: 86-769-38826111 http:// www.ptc-testing.com

Test Report

Summary of assessment

Clause	Assessment
7.3 Visual inspection	Not tested
7.4 Packaging	PASS
7.5 Material	PASS
7.6 Cleaning and disinfecting	N/A
7.7 Practical performance	PASS
7.8 Finish of parts	PASS
7.9.1 Total inward leakage	PASS
7.9.2 Penetration of filter material	PASS
7.10 Compatibility with skin	PASS
7.11 Flammability	PASS
7.12 Carbon dioxide content of the inhalation air	PASS
7.13 Head harness	PASS
7.14 Field of vision	PASS
7.15 Exhalation valve	N/A
7.16 Breathing resistance	PASS
7.17 Clogging	N/A
7.18 Demountable parts	PASS
9 Marking	Not tested

Remark:
PASS: comply with requirement of standard
N/A: not application
Not tested: the clause were not required

Precise Testing & Certification (Guangdong) Co., Ltd. (PTC)
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Tel: 86-769-38808222 Fax: 86-769-38826111 http:// www.ptc-testing.com

Test Result:

Requirement	Test Result	Conclusion
7.3 Visual inspection The visual inspection shall also include the marking and the information supplied by the manufacturer.	Not tested	**Not tested**
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.	In accordance with the requirement.	**Pass**
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. Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer. After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps. When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	No mechanical failure after undergoing the conditioning described in 8.3.1, No collapse when conditioned in accordance with 8.3.1 and 8.3.2.	**Pass**
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.	Single shift use only	**N/A**
7.7 Practical performance The particle filtering half mask shall undergo practical performance tests under realistic conditions	No imperfections	**Pass**

7.8 Finish of parts

Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.

No sharp edges or burrs. **Pass**

7.9.1 Total inward leakage

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 25 % for FFP1, 11 % for FFP2, 5 % for FFP3

and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than 22 % for FFP1, 8 % for FFP2, 2 % for FFP3.

FFP2, Test results are shown in Annex A Table 7.9.1-A&B **Pass**

7.9.2 Penetration of filter material

The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1.

	Sodium chloride test 95 l/min	Paraffin oil test 95 l/min
FFP1	≤ 20%	≤ 20%
FFP2	≤ 6%	≤ 6%
FFP3	≤ 1%	≤ 1%

FFP2 , Test results are shown in Annex A Table 7.9.2. **Pass**

7.10 Compatibility with skin

Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.

No irritation or any other adverse effect to health. **Pass**

7.11 Flammability

When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5 s after removal from the flame.

Test results are shown in Annex A Table 7.11. **Pass**

7.12 Carbon dioxide content of the inhalation air

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume)

Test results are shown in Annex A Table 7.12. **Pass**

7.13 Head harness

Head harness can **Pass**

The head harness shall be designed so that the particle filtering half mask can be donned and removed easily. The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.	be donned and removed easily, adjustable or self-adjusting and have sufficiently robust to hold the particle filtering half mask firmly.	
7.14 Field of vision The field of vision is acceptable if determined so in practical performance tests.	Pass the practical performance tests.	**Pass**
7.15 Exhalation valve A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations. If an exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device that may be necessary for the particle filtering half mask to comply with 7.9. Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s. When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.	No exhalation valve	**N/A**

7.16 Breathing resistance

Classification	Maximum permitted resistance (mbar)		
	Inhalation		Exhalation
	30 l/min	95 l/min	160 l/min
FFP1	0.6	2.1	3.0
FFP2	0.7	2.4	3.0
FFP3	1.0	3.0	3.0

FFP2. Test results are shown in Annex A Table 7.16. **Pass**

7.17 Clogging **7.17.2 Breathing resistance**	Single shift use only.	**N/A**

Valved particle filtering half masks:
After clogging the inhalation resistances shall not exceed:
FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar at 95L/min continuous flow
The exhalation resistance shall not exceed 3 mbar at 160 L/min continuous flow

Valveless particle filtering half masks
After clogging the inhalation and exhalation resistances shall not exceed:
FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar at 95L/min continuous flow

7.17.3 Penetration of filter material

	Sodium chloride test 95 l/min	Paraffin oil test 95 l/min
FFP1	≤ 20%	≤ 20%
FFP2	≤ 6%	≤ 6%
FFP3	≤ 1%	≤ 1%

7.18 Demountable parts

All demountable parts (if fitted) shall be readily connected and secured, where possible by hand — Comply — **Pass**

9 Marking

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.

9.1.1 The name, trademark or other means of identification of the manufacturer or supplier.
9.1.2 Type-identifying marking.
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.
9.1.4 The number and year of publication of this European Standard.
9.1.5 At least the year of end of shelf life. The end of shelf life may be — Not tested — **Not tested**

informed by a pictogram as shown in Figure 12a, where yyyy/mm indicates the year and month.
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 pictogram as shown in Figure 12b.
9.1.7 The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d.
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.

9.2 Particle filtering half mask

Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:
9.2.1 The name, trademark or other means of identification of the manufacturer or supplier.
9.2.2 Type-identifying marking.
9.2.3 The number and year of publication of this European Standard.
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.
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.
9.2.6 Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.

Annex A: Summarization of Test Data

Table 7.9.1-A: Inward Leakage Test Data

Test specification: EN 149:2001+A1:2009 Clause 8.5

Subject	Sample No.	Condition	Walk (%)	Head Side/side (%)	Head up/down (%)	Talk (%)	Walk (%)	Mean (%)
Lv	1	A.R	5.6	5.2	5.0	4.8	5.0	5.1
Li	2	A.R	4.7	4.3	4.0	4.6	4.2	4.4
Lv	3	A.R	4.7	5.2	5.2	4.5	4.6	4.8
Xu	4	A.R	4.6	4.2	4.0	4.1	4.0	4.2
Ma	5	A.R	3.5	4.6	4.7	5.7	5.4	4.8
Chen	6	T.C	4.5	5.1	5.3	5.6	4.8	5.1
Chen	7	T.C	4.8	4.7	5.2	4.9	4.7	4.9
Zhuo	8	T.C	3.3	3.2	2.8	3.5	2.4	3.0
Chen	9	T.C	3.4	3.0	2.9	3.6	3.1	3.2
Zhang	10	T.C	5.1	4.8	5.2	5.6	4.4	5.0

Table 7.9.1-B: Facial dimension

Subject	Face Length	Face Width	Face Depth	Mouth Width
Lv	113	139	104	53
Li	120	135	112	55
Lv	81	154	120	54
Xu	120	150	120	70
Ma	130	170	130	80
Chen	110	160	90	40
Chen	115	145	110	50
Zhuo	103	146	100	50
Chen	110	145	95	40
Zhang	144	141	101	54

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Table 7.9.2: Penetration of filter material

Test specification: EN 149:2001+A1:2009 Clause 8.11

Aerosol	Condition	Sample No.	Penetration (%)	Assessment
Sodium chloride test	As received	11	0.32	FFP2 Pass
		12	0.24	
		13	0.41	
	Simulated wearing treatment	14	0.33	
		15	0.17	
		16	0.42	
	Mechanical strength + Temperature conditioned	17	1.50	
		18	1.24	
		19	1.19	
Paraffin oil test	As received	20	1.10	
		21	0.88	
		22	0.64	
	Simulated wearing treatment	23	0.54	
		24	0.59	
		25	0.56	
	Mechanical strength + Temperature conditioned	26	1.59	
		27	1.13	
		28	0.83	

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Table 7.11: Flammability

Condition	Sample No.	Result	Assessment
As received	29	No burn	Pass
	30	No burn	
Temperature conditioned	31	No burn	
	32	No burn	

Test specification: EN 149:2001+A1:2009 Clause 8.6

Table 7.12: Carbon dioxide content of the inhalation air

Test specification: EN 149:2001+A1:2009 Clause 8.7

Condition	Sample No.	Result (%)		Assessment
As received	33	0.0126	Mean value: 0.013	Pass
	34	0.0131		
	35	0.0141		

Table 7.16: Breathing resistance (mbar)

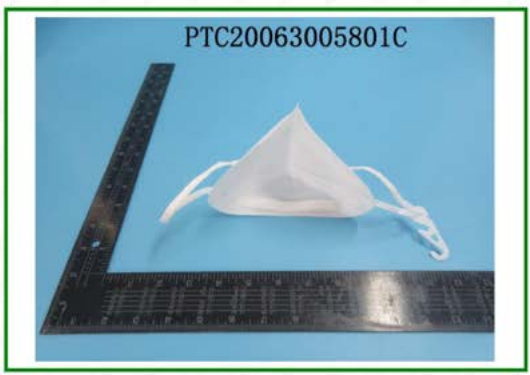
Test specification: EN 149:2001+A1:2009 Clause 8.9

As received	Flow Rate		36					37					38				
	Inhalation	30 l/min	0.47					0.47					0.49				
		95 l/min	1.88					1.89					1.81				
	Exhalation	160 l/min	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
			2.9	2.9	3.0	2.9	2.9	2.6	2.6	2.6	2.6	2.6	3.0	3.0	2.9	2.9	2.9
Simulated wearing treatment	Flow Rate		39					40					41				
	Inhalation	30 l/min	0.47					0.47					0.46				
		95 l/min	1.42					1.42					1.36				
	Exhalation	160 l/min	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
			2.5	2.6	2.5	2.5	2.5	2.5	2.4	24	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Temperature conditioned	Flow Rate		42					43					44				
	Inhalation	30 l/min	0.46					0.45					0.45				
		95 l/min	1.64					1.66					1.70				
	Exhalation	160 l/min	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
			2.5	2.5	2.5	2.4	2.4	2.8	2.8	2.7	2.7	2.7	2.6	2.5	2.5	2.5	2.5
Assessment	FFP2 Fail																

A: Facing directly ahead B: Facing vertically upwards C: facing vertically downwards

D: Lying on the left side E: Lying on the right side

Photo(s) of Sample:



End of Report

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EU DECLARATION OF CONFORMITY

Personal Protective Equipment:

Brand:	Shining Time
Name:	Protective Mask
Model:	KDD1001
Harmonised Standards:	EN149:2001+A1:2009
Class:	FFP2 NR
Manufacturer:	QingDao KANGDUODUO Protective Equipment Co.,Ltd
Manufacturer Address:	West of Sili Village,Lancun Town,Jimo District,Qingdao City,Shandong Province,China

This declararion of conformity is issued under the sole responsibility of the manufacturer:
QingDao KANGDUODUO Protective Equipment Co.,Ltd

The object of the declaration described above is in conformity with the relevent Union harmonization legislation: Personal Protective Equipment Regulation (EU) 2016/425.

The fulfilment of the relevant health and safety requirements set out in Annex II has been demonstrated.

The notified body:

LGAI TECHNOLOGICAL CENTER (APPLUS),
Campus UAB, Ronda de la Font del Carme s/n, E-08193 Bellaterra (Barcelona), Spain,
Noyified Body Number:0370

performed the EU type-examination (Module B) and issued the EU type-examination certificate with notified body number 0370.

The PPE is subject to the conformity to type assessment procedure based on internal production control plus supervised product checks at random intervals (Module C2) set out in the Regulation (EU) 2016/425,under surveillance of the notified body LGAI TECHNOLOGICAL CENTER (APPLUS), NB 0370.

Signed for and on behalf of: