



MCM Global Ltd.
MCM Management Ltd
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Wan Chai, Hong Kong
Tel : +(852) 2552 6280
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Email : info@mcm-global.com

Ref: MCM20010R

Date: 4 May 2020

QUOTATION

Buyer : Eco Charge Japan Co., Ltd.
Contact Person : Liang
Telephone :
Email : liangsifan@gmail.com

Item	Description	Quantity	Unit Price (RMB)	FOB China Amount (RMB)
1	3 Layers Medical Face Mask	100,000	1.88	188,000.00
Total:				<u>188,000.00</u>

Terms & Conditions:

1. Quotation valid until: 8 May 2020
2. Shipment Term: FOB China
3. Payment Terms: 50% on order, 50% before shipment
4. Delivery: 1 week after received deposit
5. Packing: As factory provided

Wire Transfer Information:

Bank : DBS Bank (Hong Kong) Limited
Address : 16/F., The Centre, 99 Queen's Road, Centre, Hong Kong
Swift : DHBKHKHH
Account Name : MCM Global Limited
Account Number : 78-3255456

Prepared by:

Kenneth Kwok

Confirmed by:

Company Chop & Signature

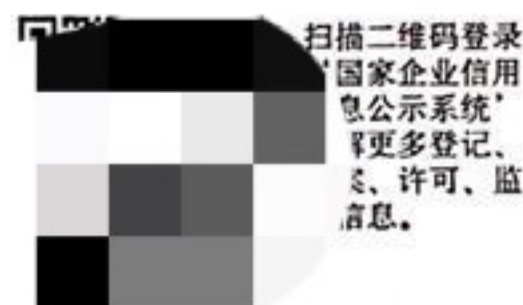


编号: S2212019059347

统一社会信用代码

91440000707653080X

营业执照



扫描二维码登录
“国家企业信用
信息公示系统”
获取更多登记、
许可、监
管信息。

名称 广东广济堂医药实业股份有限公司
类型 股份有限公司(非上市、自然人投资或控股)
法定代表人 黄玉环

经营范围 批发业(具体经营项目请登录广州市商事主体信息公示平台查询,网址: <http://cri.gz.gov.cn/>。依法须经批准的项目,经相关部门批准后方可开展经营活动。)

注册资本 陆仟叁佰壹拾伍万元(人民币)

成立日期 1998年03月25日

营业期限 1998年03月25日至长期

住所 广东省广州市从化区从化福从

登记机关

2019年11月20日



医疗器械生产许可证

许可证编号: 粤食药监械生产许20152686号

企业名称: 广东广济堂医药实业股份有限公司

生产地址: 广东省广州市从化区从化镇

法定代表人: 雷教明

生产范围: II类6864医用卫生材料及敷料。

企业负责人: 雷教明

住 所: 广东省广州市从化区

发证部门: 广东省食品药品监督管理局

有效期限: 至 2020 年 08 月 27 日

发证日期: 2015 年 08 月 28 日

国家食品药品监督管理总局制

对外贸易经营者备案登记表

备案登记表编号: 02490988

统一社会信用代码: 91440000707653080X
进出口企业代码: _____

经营者中文名称	广东广济堂医药实业股份有限公司		
经营者英文名称	Guangdong Guangjitang Pharmaceutical Industry Co.,Ltd		
组织机构代码	_____	经营者类型 (由备案登记机关填写)	股份有限公司
住 所	广东省广州市从化区从化经		
经营场所 (中文)	广东省广州市从化区从化		
经营场所 (英文)	No.12,Fucong Road,Economic Development Zone,Conghua District,Guangzhou,China.		
联系电话	188	联系传真	020-38891298
邮政编码	510620	电子邮箱	1551351623@qq.com
工商登记注册日期	1998-3-25	工商登记注册号	_____

依法办理工商登记的企业还须填写以下内容

企业法定代表人姓名	雷教明	有效证件号	610103196611282138
注册资金	叁仟壹佰捌拾肆万元	(折美元)	

依法办理工商登记的外国 (地区) 企业或个体工商户 (独资经营者) 还须填写以下内容

企业法定代表人 / 个体工商户负责人姓名	_____	有效证件号	_____
企业资产 / 个人财产	_____	(折美元)	

备注	_____
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填表前请认真阅读背面的条款, 并由企业法定代表人或个体工商户负责人签字、盖章。



2016



准予变更登记（备案）通知书

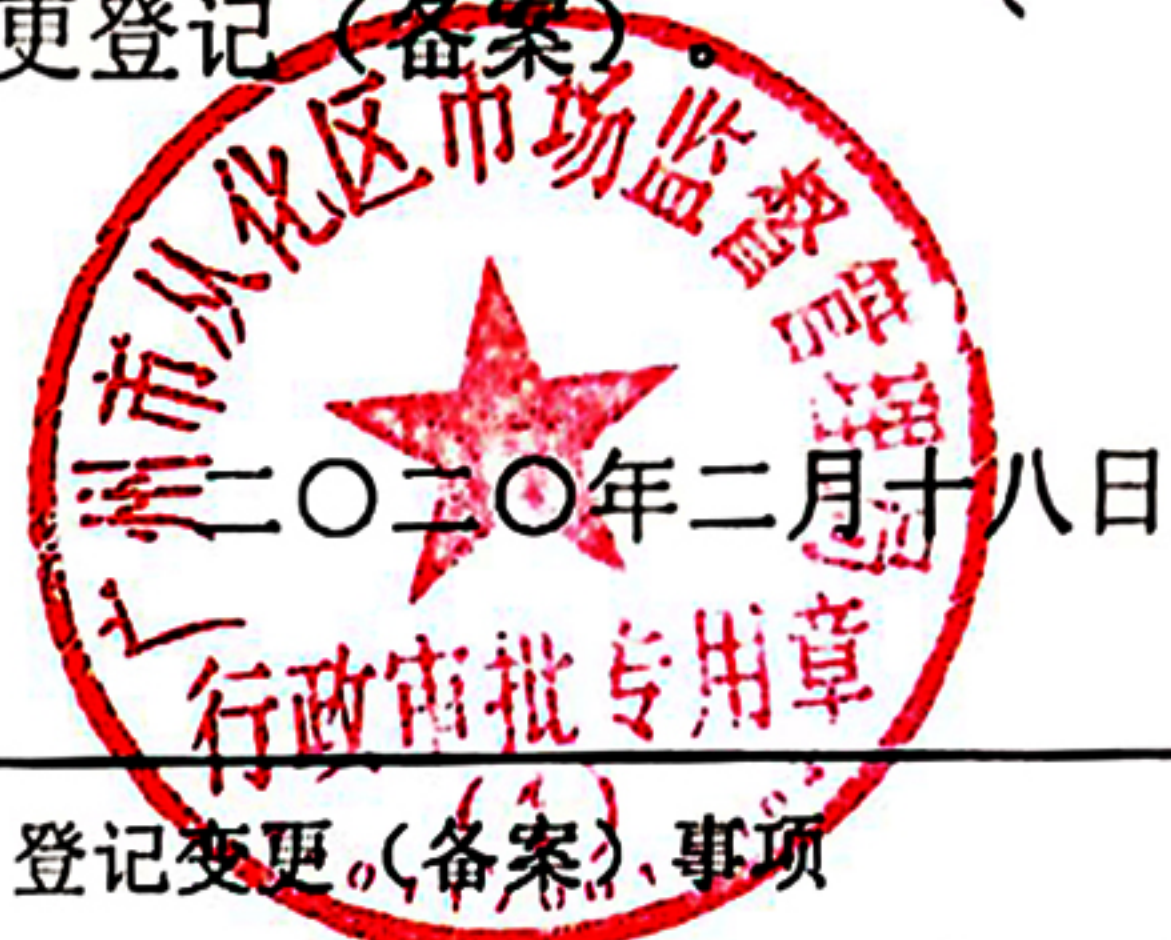
穗从市监内变字【2020】第22202002180064号

广东广济堂医药实业股份有限公司

经审查，申请变更（备案）：

具体经营项目申报，章程备案。

提交的申请材料齐全，符合法定形式，我局决定准予变更登记（备案）。



详细变更（备案）内容

变更（备案）事项	原登记变更（备案）事项	登记变更（备案）事项
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具体变动申报内容

申报事项	原申报事项	现申报事项
章程备案		准予章程备案
具体经营项目备案	生产、销售：医疗器械，保健食品，饮料（固体饮料类），茶叶（袋泡茶）；批发兼零售：预包装食品、乳制品（含婴幼儿配方乳粉）；销售：化妆品；生物技术的研发及其综合技术服务；货物进出口、技术进出口。（该企业经营范围由广东省市场监管局核准）	普通劳动防护用品制造；植物提取物原料的加工（不含许可经营项目，法律法规禁止经营的项目不得经营）；非许可类医疗器械经营；销售本公司生产的产品（国家法律法规禁止经营的项目除外；涉及许可经营的产品需取得许可证后方可经营）；化妆品及卫生用品批发；劳动防护用品批发；劳动防护用品零售；消毒用品销售（涉及许可经营的项目除外）；生物医疗技术研究；生物防治技术推广服务；货物进出口（专营专控商品除外）；技术进出口；保健食品制造；医疗诊断、监护及治疗设备制造；卫生材料及医药用品制造；特殊医学用途配方食品的制造；固体饮料制造；茶饮料及其他饮料制造；乳制品制造；含乳饮料和植物蛋白饮料制造；食品添加剂制造；特种劳动防护用品制造；特种劳动防护用品制造；消毒剂制造；医用电子仪器设备的生产（具体生产范围以《医疗器械生产企业许可证》为准）；中药提取物生产（具体经营项目以药品生产许可证载明为准）；精制茶加工；中药饮片加工；代用茶加工；许可类医疗器械经营；保健食品批发（具体经营项目以《食品经营许可证》为准）；中成药、中药饮片批发；医疗诊断、监护及治疗设备批发；非酒精饮料、茶叶批发；乳制品批发；预包装食品批发；保健食品零售（具体经营项目以《食品经营许可证》为准）；特殊医学用途配方食品的销售；预包装食品零售；医疗诊断、监护及治疗设备零售
原组织机构代码证号： 707653080 统一社会信用代码号： 91440000707653080X		
原执照注册号：		

重要提示：

- 1、查询企业公示信息请登录“国家企业信用信息公示系统（www.gsxt.gov.cn）”。
- 2、本营业执照不作为申报住所、场所所在建筑为合法建筑的证明；如涉及违法建设，由有关部门依法查处。



Certificate

No. ICR Polska/P3601102



Name and address of certificate owner:

GUANGZHOU XINGHUI HEALTH CONTROL CO., LTD
No.33, Zhongshan Five Road, Yuexiu District, Guangzhou City, China

Name and address of manufacturer:

GUANGZHOU XINGHUI HEALTH CONTROL CO., LTD
No.33, Zhongshan Five Road, Yuexiu District, Guangzhou City, China

Product name:

Disposable protective mask

Product types:

17.5×9.5cm, 14.5×9.5cm

Product trademark:

n/a

This certificate confirms that the product meets the requirements of the following standards and within limits of its standards gives presumption of conformity with essential requirements of Regulation 2016/425

EN 149:2001+A1:2009

The certification process has been carried out in accordance with the program PC-P-07-07.

Evaluation has been carried out in accordance with test reports made by China Ceprei (Sichuan) Laboratory

No. of test reports:

ANCE (20)-32705-PPE

Certificate issue date:

24.03.2020

Expiration date:

23.03.2025

The mutual obligations and rights of the certification are regulated by the contract No. ICR Polska/2020-3109.

This certificate applies to products having the same attributes (parameters), intended use, that have been evaluated and meet the requirements of the aforementioned standard.

Director: Rafał Kalinowski



Warsaw, 24. 03. 2020



ICR Polska Co. Ltd.

ul. Plac Przymierza 6, 03-944 Warszawa
www.icrpolska.com, e-mail: icrpolska@icrq.com

TEST REPORT

EN 149:2001+A1:2009

Respiratory protective devices – Filtering half masks to protect against particles

Report Reference No.....: ANCE (20)-32705-PPE
 Compiled by (+ signature).....: *Charlie Mack*
 Reviewed by (+ signature).....: *Steven Cui*
 Approved by (+ signature).....: *[Signature]*
 Date of issue.....: 2020-3-27
 Total number of pages.....: 36

Testing Laboratory.....: China Ceprei (Sichuan) Laboratory
 Address.....: No.45 Wenming Dong Road Longquanyi Chengdu 610100, China

Applicant's name.....: GUANGZHOU XINGHUI HEALTH CONTROL CO., LTD
 Address.....: No.33, Zhongshan Five Road, Yuexiu District, Guangzhou City, China

Test specification:
 Standard.....: EN 149:2001+A1:2009
 Test procedure.....: CE
 Non-standard test method.....: N/A

Test Report Form No.....: EN 149
 Test Report Form(s) Originator.....: China Ceprei (Sichuan) Laboratory
 Master TRF.....: 2014

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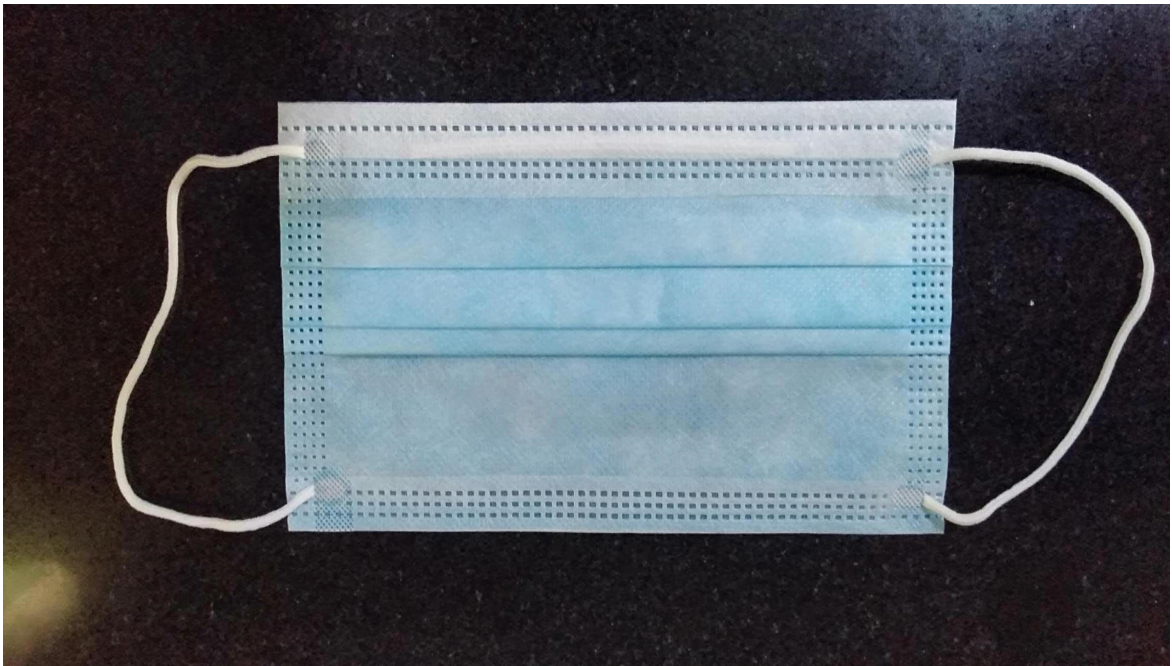
If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Note: This report shall not be reproduced except in full, without the written approval of China Ceprei (Sichuan) Laboratory..This document may be altered or revised by China Ceprei (Sichuan) Laboratory. personnel only, and shall be noted in the revision section of the document.

Test item description	Disposable protective mask
Trade Mark	/
Manufacturer	GUANGZHOU XINGHUI HEALTH CONTROL CO., LTD
Manufacturer address	No.33, Zhongshan Five Road, Yuexiu District, Guangzhou City, China
Model/Type reference	17.5×9.5cm, 14.5×9.5cm
Ratings	/

Copy of marking plate:



**Application Form
For
CERTIFICATE OF CONFORMITY**

This is a request to CE, to review the documentation related to the product indicated and to issue a voluntary certificate that will be used according to the annex regulation.

Applicant: GUANGZHOU XINGHUI HEALTH CONTROL CO., LTD
No.33, Zhongshan Five Road, Yuexiu District, Guangzhou City, China
Email : 304040281@qq.com

Manufacturer: GUANGZHOU XINGHUI HEALTH CONTROL CO., LTD
Address: No.33, Zhongshan Five Road, Yuexiu District, Guangzhou City, China

DESCRIPTION OF THE APPARATUS

Type: Disposable protective mask
Brand name: See Label
Identification: 17.5×9.5cm, 14.5×9.5cm
Intended use: Personal protective equipment

Aspect to be assessed

Standard used : EN 149:2001+A1:2009

Directive used: (EU) 2016/425 Personal protective equipment (PPE)

The customer declare to understand the Annex Regulation.

Customer Signature

Date: _____
Name: _____
Signature: _____



Application Form for Certificate of Conformity - CNA: 202003501

Summary of testing:

Ambient temperature :20°C-25°C, humidity:50%~55%RH

Complete test was conducted on 17.5×9.5cm.

Test items particulars:	
Equipment mobility	movable / stationary / fixed / permanent connection / for building-in
Tested for IT power systems	Yes / No
IT testing, phase-phase voltage (V)	/
Class of equipment	/
Mass of equipment (kg)	/
Protection against ingress of water	/
Possible test case verdicts:	
– test case does not apply to the test object :	N /A (N) (Not Applicable)
– test object does meet the requirement :	P (Pass)
– test object does not meet the requirement :	F (Fail)
Testing	
Date of receipt of test item	2020-3-2
Date(s) of performance of tests	2020-3-2 to 2020-3-27
General remarks:	
<p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.</p> <p>"(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma (point) is used as the decimal separator.</p>	

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
5.	Classification		P
	Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices:		P
	FFP1,FF2 and FFP3	FFP2 mask	P
	The protection provided by an FFP2 – or FFP3 – device includes that provided by the device of lower class or classes.		P
6.	Designation		P
	Particle filtering half masks meeting the requirements of this European Standard shall be designated in the following manner:		P
	Particle filtering half mask EN 149, year of publication, class, option.		P
7.	Requirements		P
7.1	General		P
	In all tests all test samples shall meet the requirements.		P
7.2	Unless otherwise specified, the values stated in this European Standard are expressed as nominal values. Except for temperature limits, values which are not stated as maxima or minima shall be subject to a tolerance of $\pm 5\%$. Unless otherwise specified, the ambient temperature for testing shall be $(16-32)^{\circ}\text{C}$, and the temperature limits shall be subject to an accuracy of $\pm 1^{\circ}\text{C}$.		P
7.3	Visual inspection		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	The visual inspection shall also include the marking and the information supplied by the manufacturer.	All the required information has been permanently marked on the product or on the package.	P
7.4	Packaging		P
	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.	Has complied with	P
	Testing shall be done in accordance with 8.2.	See 8.2	P
7.5	Material		P
	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.		P
	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.	No mechanical failure has been found	P
	Three particle filtering half masks shall be tested.	3 samples have been tested	P
	When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	No collapse has been found	P
	Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	The nuisance material has been filtered	P
	Testing shall be done in accordance with 8.2.	See 8.2	P
7.6	Cleaning and disinfecting		P
	If the particle filtering half mask is designed for	The material can withstand	P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	more than a single shift, the materials used shall withstand the cleaning and disinfecting agents recommended by the manufacturer.	the cleaning and disinfecting agent.	
	Testing shall be done in accordance with 8.4 and 8.5.	See 8.4 and 8.5	P
7.7	Practical performance		P
	Te particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard.		P
	Where practical performance tests show the apparatus has imperfections related to wearer's acceptance, the test house shall provide full details of those parts of the practical performance tests which revealed these imperfections.		P
	Testing shall be done in accordance with 8.4	See 8.4	N/A
7.8	Finish of parts		P
	Pats of the device likely to come into contact with the wearer shall have no sharp edges or burrs.	No sharp edges has been found	P
	Testing shall be done in accordance with 8.2.	See 8.2	P
7.9	Leakage		P
7.9.1	Total inward leakage		P
	The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected.		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	The total inward leakage consists of three components face seal leakage, exhalation valve leakage (if exhalation valve fitted) and filter penetration.		P
	For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual exercise results for total inward leakage shall be not greater than 25% for FFP1 11% for FFP2 5% for FFP3	Inward leakage: 7%	P
	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	5%	
	Testing shall be done in accordance with 8.5.	See 8.5	P
7.9.2	Penetration of filter material	Test result see table 1	P
	The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1.		P
	A total of 12 particle filtering half masks shall be tested for each aerosol: 3 as received, 3 after temperature conditioning in accordance with 8.3.2, 3 after the simulated wearing treatment described in 8.3.1, and 3 after the test for mechanical strength in accordance with 8.3.3.		P
	Testing shall be done in accordance with 8.11.	See 8.11	P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
7.10	Compatibility with skin		P
	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 adverse effect found	P
	Testing shall be done in accordance with 8.4 and 8.5.	See 8.4 and 8.5	P
7.11	Flammability		P
	The material used shall not present a danger for the wearer and shall not be of highly flammable nature.	Has complied with	P
	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.		P
	The particle filtering half mask does not have to be usable after the test.		P
	Testing shall be done in accordance with 8.6.	See 8.6	P
7.12	Carbon dioxide content of the inhalation air		P
	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0%(by volume).	<1,0%	P
	Testing shall be done in accordance with 8.7.	See 8.7	P
7.13	Head harness		P
	The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.	Has complied with	P
	The head harness shall be adjustable or self – adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	and be capable of maintaining total inward leakage requirements for the device.		
	Testing shall be done in accordance with 8.4 and 8.5.	See 8.4 and 8.5	P
7.14	Field of vision		P
	The field of vision is acceptable if determined so in particle performance tests.		P
	Testing shall be done in accordance with 8.4.	See 8.4	
7.15	Exhalation valve(s)	No such parts	N/A
7.16	Breathing resistance		P
	The breathing resistances apply to valve and valveless particle filtering half masks and shall meet the requirements of Table 2.	Test result see Table 2	P
	Testing shall be done in accordance with 8.9	See 8.9	P
7.17	Clogging		N/A
7.18	Demountable parts		N/A
	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.		N/A
	Testing shall be done in accordance with 8.2.		N/A
8.	Testing		P
8.1	General		P
	If no special measuring devices and methods are specified, commonly used devices and methods shall be used.	No special measuring and methods	P
	Before performing tests involving human subjects account should be taken of any national regulations concerning the medical history, examination or supervision of the test		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	subjects.		
8.2	Visual inspection		P
	The visual inspection is carried out where appropriate by the test house prior to laboratory or practical performance tests.		P
8.3	Conditioning		P
8.3.1	Simulated wearing treatment		P
	Conditioning by simulated wearing treatment shall be carried out by the following process.		P
	A breathing machine is adjusted to 25 cycles/min and 2,0 l/Stroke. The particle filtering half mask is mounted on a Sheffield dummy head. For testing, a saturator is incorporated in the exhalation line between the breathing machine and the dummy head, the saturator being set at a temperature in excess of 37°C to allow for the cooling of the air before it reaches the mouth of the dummy head. The air shall be saturated at (37±2) °C at the mouth of the dummy head. In order to prevent excess water spilling out of the dummy's mouth and contaminating the article filtering half mask the head shall be inclined so that the water runs away from the mouth and is collected in a trap.		P
	The breathing machine is brought into operation, the saturator switched on and the apparatus allowed to stabilize. The particle filtering half mask under test shall then be mounted on the dummy head. During the test time at approximately 20 min intervals the particle filtering half mask shall be completely		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	removed from the dummy head and refitted such that during the test period it is fitted ten times to the dummy head.		
8.3.2	Temperature conditioning		P
	Expose the particle filtering half masks to the following thermal cycle:		P
	a) for 24h to a dry atmosphere of $(70\pm3)^{\circ}\text{C}$		P
	b) for 24h to a temperature of $(-30\pm3)^{\circ}\text{C}$		P
	And allow to return to room temperature for at least 4h between exposures and prior to subsequent testing.		P
	The conditioning shall be carried out in a manner which ensures that no thermal shock occurs.		P
8.3.3	Mechanical strength		P
	Conditioning shall be done in accordance with En 143.		P
8.3.4	Flow conditioning		N/A
	A total of 3 valved particle filtering half masks shall be tested, one as received and two temperature conditioned in accordance with 8.3.2.		N/A
8.4	Practical performance		P
8.4.1	General		P
	A total of 2 particle filtering half masks shall be tested: both as received.		P
	All tests shall be carried out by two test subjects at ambient temperature and the test temperature and humidity shall be recorded.		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	Prior to the test there shall be an examination to assure that the particle filtering half mask is in good working condition and that it can be used without hazard.		P
	Examination shall be done in accordance with 8.2		P
	For the test, persons shall be selected who are familiar with using such or similar equipment.		P
	During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded:	Has been record	P
	a) head harness comfort:	Comfort	P
	b) Security of fastenings;	No break has been found	P
	c) field of vision;	No any effect	P
	d) any other comments reported by the wearer on request.	No any request	P
8.4.2	Walking test		P
	The subjects wearing normal working clothes and wearing the particle filtering half mask shall walk at a regular rate of 6 km/h on a level course. The test shall be continuous, without removal of the particle filtering half mask, for a period of 10 min.		P
8.4.3	Work simulation test		P
	The particle filtering half mask shall be tested under conditions which can be expected during normal use. During this test the following activities shall be carried out in simulation of the practical use to the particle filtering half		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	mask. The test shall be completed within a total working time of 20 min.		
	The sequence of activities is at the discretion of the test house. The individual activities shall be arranged so that sufficient time is left for the comments prescribed.		P
	a) walking on the level with headroom of $(1,3 \pm 0,2)^m$ for 5 min;		P
	b) crawling on the level with headroom of $(0,70 \pm 0,05)m$ for 5 min;		P
	c) filling a small basket (see figure 1, approximate volume = 8 l) with chippings or other suitable material from a hopper which stands 1,5 m high and has an opening at the bottom to allow the contents to be shoveled out and a further opening at the top where the basket full of chippings is returned.		P
	The subject shall stoop or kneel as he wishes and fill the basket with chippings. He shall then lift the basket and empty the contents back into the hopper. This shall be done 20 times in 10 min.		P
8.5	Leakage		P
8.5.1	General test procedure		P
8.5.1.1	Total inward leakage		P
	A total of 10 test specimens shall be tested: 5 as received and 5 after temperature conditioning in accordance with 8.3.2	See 8.3.2	P
	The total inward leakage shall be tested using sodium chloride aerosol.		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	Prior to the test there shall be an examination to ensure that the particle filtering half mask is in good working condition and that it can be used without hazard.		P
	Examination shall be done in accordance with 8.2.	See 8.2	P
	For the test, persons shall be selected who are familiar with using such or similar equipment.		P
	A panel of ten clean-shaven persons (without beards or sideburns) shall be selected covering the spectrum of facial characteristics of typical users (excluding significant abnormalities). It is to be expected that exceptionally some persons cannot be satisfactorily fitted with a particle filtering half mask. Such exceptional subjects shall not be used for testing particle filtering half masks.		P
	In the test report face of the ten test subjects shall be described (for information only) by the four facial dimensions (in mm) illustrated in Figure 2.		P
8.5.1.2	Test equipment		P
	The test atmosphere shall preferably enter the top of the enclosure through a flow distributor, and be directed downwards over the head of the test subject at a minimum flow rate of 0,12 m/s. The concentration of the test agent inside the effective working volume shall be checked to be homogeneous. The flow rate should be measured close to the subject's head.		P
	A level treadmill is required capable of working at 6 km/h.		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
8.5.1.3	Testy procedure		P
	Ask the test subjects to read the manufacturer's fitting information and if more than one size of particle filtering half mask is manufactured, ask the test subject to select the size deemed by him to be the most appropriate. If necessary the test supervisor shall show the test subjects how to fit the particle filtering half mask correctly in accordance with the fitting information.		P
	Inform the test subjects that if they wish to adjust the particle filtering half mask during the test they may do so. However if this is done, repeat the relevant section of the test, having allowed the system to resetttle.		P
	The test subjects shall have no indication of the results as the test proceeds.		P
	After fitting the particle filtering half mask, ask each test subject 'Does the mask fit?'. If the answer is 'Yes', continue the test. If the answer is 'No', take the test subject off the panel, report the fact and replace with another test subject.		P
	The test sequence shall be as follows:		P
	a) Ensure the test atmosphere is OFF..		P
	b) Place the test subject in the enclosure. Connect up the facepiece sampling probe. Have the test subject walk at 6 km/h for 2 min. Measure the test agent concentration inside the particle filtering half mask to establish the background level.		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	c) Obtain a stable reading.		P
	b) Turn the test atmosphere ON.		P
	e) The subject shall continue to walk for a further 2 min or until the test atmosphere has stabilized.		P
	f) Whilst still waling the subject shall perform the following exercises:		P
	1) walking for 2 min without head movement or talking;		P
	2) turning head from side to side (approx. 15 times), as if inspecting the walls of a tunnel for 2 min.		P
	3) moving the head up and down (approx. 15 times), as if inspecting the roof and floor for 2 min.		P
	4) reciting the alphabet or an agreed test out loud as if communicating with a colleagues fro 2 min;		P
	5) Walking for 2 min without head movement or talking.		P
	g) record		P
	1) enclosure concentration;		P
	2) The leakage over each exercise period.		P
	h) Turn off the test atmosphere and when the test agent has cleared from the enclosure remove the subject.		P
	After each test, replace the particle filtering half mask by a new sample.		P
8.5.2	Method		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
8.5.2.1	Principle		P
	The subject wearing the particle filtering half mask under test walks on a treadmill over which is an enclosure.		P
	Through this enclosure flows a constant concentration of NaCl aerosol. The air inside the particle filtering half mask is sampled and analysed during the inhalation phase of the respiratory cycle to determine the NaCl content. The sample is extracted by punching a hole in the particle filtering half mask and inserting a probe through which the sample is drawn. The pressure variation inside the particle filtering half mask is used to actuate a change-over valve so that inhaled air only is sampled. A second probe is inserted for this purpose.		P
8.5.2.2	Test equipment (see Figure 3)		P
	The NaCl aerosol shall be generated from a 2% solution of reagent grade NaCl in distilled water. An atomizer equivalent to the type described should be used (see Figure 4). This requires an air flow rate of 100 l/min at a pressure of 7 bar. The atomizer and its housing shall be fitted into a duct through which a constant flow of air is maintained. It may be necessary to heat or dehumidify the air in order to obtain complete drying of the aerosol particles.		P
8.5.2.2.2	Test agent		P
	The mean NaCl concentration within the enclosure shall be (8 ± 4) mg/m ³ and the		P

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Clause	Requirement - Test	Result - Remark	Verdict
	variation throughout the effective working volume shall be not more than 10%. The particle size distribution shall be 0,02 μm to 2 μm equivalent aerodynamic diameter with a mass median diameter of 0.6 μm .		
8.5.2.2.3	Flame photometer		P
	A flame photometer shall be used to measure the concentration of NaCl inside the particle filtering half mask. Essential performance characteristics for a suitable instrument are:		P
	a) It should be a flame photometer specifically designed for the direct analysis of NaCl aerosol;		P
	b) It should be capable to measuring concentrations of NaCl aerosol between 15 mg/m^3 and 5 ng/m^3 ;		P
	c) the total aerosol sample required by the photometer should not be greater than 15 l/min;		P
	d) The response time of the photometer, excluding the sampling system, should not be greater than 500 ms;		P
	e) It is necessary to reduce the response to other elements, particularly carbon, the concentration of which will vary during the breathing cycle. This will be achieved by ensuring that the band pass width of the interference filter is no greater than 3 nm and that all necessary side-band filters are included.		P
8.5.2.2.4	Sample selector		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	A system is required which will switch the sample to the photometer only during the inhalation phase of the respiratory cycle. During the exhalation phase clean shall be fed to the photometer. The essential elements of such a system are:		P
	a) An electrically operated valve with a response time of the order of 100 ms. The valve should have the minimum possible dead space compatible with straight-through, unrestricted flow when open;		P
	b) A pressure sensor which is capable of detecting a minimum pressure change of approx. 0.05 mbar and which can be connected to a probe inserted in the cavity of the particle filtering half mask. The sensor shall have an adjustable threshold and be capable of differential signaling when the threshold is crossed in either direction. The sensor shall work reliably when subjected to the accelerations produced by the head movements of the subject;		P
	c) An interfacing system to actuate the valve in response to a signal from the pressure sensor;		P
	d) timing device to record the proportion of the total respiratory cycle during which sampling took place.		P
8.5.2.2.5	Sampling probe		P
	The probe shall be fitted securely in an airtight manner to the particle filtering half mask as near as possible to the centre line of the particle filtering half mask. A multiple hole		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	sapling probe is strongly recommended.		
	Measures shall be taken to prevent the influence of condensation in the sampling probe on the measurement (by supplying dry air). Figure 5 shows design that has been found suitable. The probe is adjusted so that it just touches the wearer's lips.		P
	Care shall be taken to ensure that the probe does not disturb the normal fit or shape of the mask.		P
8.5.2.26	Sample pump		P
	If no pump is incorporated into the photometer an adjustable flow pump is used to withdraw an air sample from the particle filtering half mask under test. This pump is so adjusted as to withdraw a constant flow of 1 l/min from the sample probe. Dependent on the type of photometer it may be necessary to dilute the sample with clean air.		P
8.5.2.2.7	Sampling of enclosure connection		P
	The enclosure aerosol concentration is monitored during the tests using a separate sampling system, to avoid contamination of the particle filtering half mask sampling lines. It is preferable to use a separate flame photometer for this purpose.		P
	If a second photometer is not available, sampling of the enclosure concentration using a separate sampling system and the same photometer may be made. However, time will then be required to allow the photometer to return to a clean background.		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
8.5.2.2.8	Pressure detection probe		P
	A second probe is fitted near to the sample probe and is connected to the pressure sensor.		P
8.5.2.3	Expression of results		P
	The leakage P shall be calculated from measurements made over the last 100s of each of the exercise periods to avoid carry over of results from one exercise to the other.		P
8.6	Flammability		P
	A total of particle filtering half masks shall be tested: two in the state as received and two after temperature conditioning in accordance with 8.3.2.	See 8.3.2	P
	The single burner test is carried out according to the following procedure.		P
	The facepiece is put on a metallic dummy head which is motorized such that it describes a horizontal circle with a linear speed, measured at the tip of the nose, of (60±5)mm/s.		P
	The head is arranged to pass over a propane burner the position of which can be adjusted. By means of a suitable gauge, the distance between the top of the burner, and the lowest part of the facepiece (when positioned directly over the burner) shall be set to (20±2)mm.		P
	A burner described in ISO 6941 has been found suitable.		P
	With the head turned away from the area adjacent to the burner, the propane gas is tuned on, the pressure adjusted to between 0,2 bar and 0,3 bar and the gas ignited. By means		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	of a needle valve and fine adjustments to the supply pressure, the flame height shall be set to (40 ± 4) mm. This is measured with a suitable gauge. The temperature of the flame measured at a height of (20 ± 2) mm above the burner tip by means of a 1,5mm diameter mineral insulated thermocouple probe, shall be $(800 \pm 5)^{\circ}\text{C}$.		
	Failure to meet the temperature requirement indicates that a fault such as a partially blocked burner exists. This shall be rectified before testing.		P
	The head is set in motion and the effect of passing the facepiece one through the flame shall be noted.		P
	The test shall be repeated to enable an assessment to be made of all materials on the exterior of the device. Any one component shall be passed through the flame once only.		P
8.7	Carbon dioxide content of the inhalation air		P
	A total of 3 particle filtering half masks shall be tested: all 3 as received.		P
	The apparatus consists essentially of a breathing machine with solenoid valves controlled by the breathing machine, a connector, a CO_2 flowmeter and a CO_2 analyser.		P
	The apparatus subjects the particle filtering half mask to a respiration cycle by the breathing machine.		P
	For this test the particle filtering half mask shall be fitted securely in a leak-tight manner but		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	without deformation to a Sheffield dummy head (see Figure 6).		
	Air shall be supplied to it from a breathing machine adjusted to 25 cycles/min and 2,0 l/stroke and the exhaled air shall have a carbon dioxide content of 5% by volume.		P
	A typical test arrangement is shown in Figure 7.		P
	If the design of the test equipment causes a CO ₂ build-up a CO ₂ absorber shall be used in the inhalation branch between solenoid valve and breathing machine.		P
	The CO ₂ is fed into the breathing machine via a control valve, a flowmeter, a compensating bag and two non-return valves.		P
	Immediately before the solenoid valve a small quantity of exhaled air is preferably continuously withdrawn through a sampling line and then fed into the exhaled air via a CO ₂ analyser.		P
	To measure the CO ₂ content of the inhaled air, 5% of the stroke volume of the inhalation phase of the breathing machine is drawn off at the marked place by an auxiliary lung and fed to a CO ₂ analyser. The total dead space of the gas path (excluding the breathing machine) of the test installation should not exceed 2000ml.		P
	Measure the carbon dioxide content of the inhale air and record continuously.		P
	Test conditions are ambient atmospheric conditions.		P
	The ambient carbon dioxide level is measured		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	1 m in from of and level with the tips of the nose of the dummy head. The ambient level is measured once a stabilized level for carbon dioxide in the inhalation air has been attained. Alternatively, the ambient level of carbon dioxide may be measured at the sampling tube with the carbon dioxide supply turned off. Results are deemed acceptable only if the measured value of the ambient level of carbon dioxide is less than 0,1%.		
	The laboratory ambient carbon dioxide level shall be subtracted form the measured value.		P
	The laboratory ambient carbon dioxide level shall be subtracted from the measured value.		P
	The air flow from the front shall be 0,5 m/s.		P
	For test arrangement see figure 8.		P
	The test shall be performed until a constant carbon dioxide content in the inhalation air is achieved.		P
8.8	Strength of attachment of exhalation valve housing		N/A
8.9	Breathing Resistance		P
8.9.1	Test samples and fixture		P
8.9.1.1	Valveless particle filtering half masks		P
	A total of 9 valveless particle filtering half masks shall be tested:		P
	3 as received, 3 after temperature conditioning in accordance with 8.3.2 and 3 after the test for simulated wearing in accordance with 8.3.1.		P
8.9.1.2	Valved particle filtering half masks		N/A

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
8.9.2	Exhalation resistance		P
	Seal the particle filtering half mask on the Sheffield dummy head. Measure the exhalation resistance at the opening for mouth of the dummy head using the adapter shown in Figure 6 and a breathing machine adjusted to 25 cycles/min and 2.0 l/stroke or a continuous flow 160 l/min. Use a suitable pressure transducer.		P
	Measure the exhalation resistance with the dummy head successively placed in 5 defined positions:		P
	- facing directly ahead		P
	- facing vertically upwards		P
	- facing vertically downwards		P
	- lying on the left side		P
	- lying on the right side		P
8.9.3	Inhalation resistance		P
	Test the inhalation resistance at 30 l/min and 95 l/min continuous flow.		P
8.10	Clogging		P
8.10.1	Principle		P
	The test aerosol shall be dolomite. A total of 3 particle filtering half masks shall be tested: 1 as received and 2 after temperature conditioning in accordance with 8.3.2	See 8.3.2	P
	The test consists of subjecting the particle filtering half mask to a sinusoidal breathing simulation, whilst the sample is surrounded by a known concentration of dolomite dust in air.		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	Following the exposure, the breathing resistance and the filter penetration of the sample particle filtering half mask are measured.		
8.10.2	Test equipment		P
	A scheme of a typical apparatus is given in figure 10. The working area of the test chamber has a suggested square section of 650 mm X 650 mm.		P
	The breathing machine has a displacement of 2,0 l/stroke. The exhaled air shall pass a humidifier in the exhaled air circuit, such that the exhaled air temperature, measured at the position of the sample particle filtering half mask is $(37\pm 2)^{\circ}\text{C}$ and 95% R.H. minimum.		P
8.10.3	Test conditions		P
	- Dust DRB 4/15 dolomite		P
	The size distribution of dolomite dust is given in table 3.		P
	The particle size distribution of the air borne dust at the working area of the dust chamber is given in Figure 11.		P
	This characteristic is an essential parameter, which shall be verified especially if the geometry of the test chamber is somewhat different from the model described as follows:		P
	- Continuous flow through the dust chamber: 60 m ³ /h, linear velocity 4cm/s;		P
	- Sinusoidal flow through the particle filtering half mask is delivered by a breathing machine adjusted to 15 cycles/min and 2,0 l/stroke; the		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	exhaled air shall be saturated in humidity;		
	- Concentration of the dust: $(400 \pm 100) \text{ mg/m}^3$;		P
	- Temperature of the air: $(23 \pm 2)^\circ\text{C}$;		P
	- Relative humidity of the air: $(45 \pm 15) \%$		P
	- Testing time: Until the product of measured dust concentration and exposure time is 833 mg.h/m^3 or until		P
	1) for valve particle filtering half masks the peak inhalation resistance (corresponding to a continuous flow of 95 l/min) has reached 4 mbar for class FFP1 or 5 mbar for class FFP2 or 7 mbar for class FFP3, or until the peak exhalation resistance has reached a 1,8 mbar (corresponding to 3 mbar at continuous flow of 160 l/min);		N/A
	2) for valveless particle filtering half masks the peak inhalation or the peak exhalation resistance has reached 3 mbar for class FFP1 or 4 mbar for class FFP2 or 5 mbar for class FFP3.		P
8.10.4	Test procedure		P
	Convey dust from the distributor to the dust chamber where it is dispersed into the air stream of $60 \text{ m}^3/\text{h}$.		P
	Fit the sample particle filtering half mask in a leaktight manner to a dummy head or a suitable filter holder located in the dust chamber. Connect the breathing machine and humidifier to the sample and operate for the specified testing time.		P
	The concentration of dust in the test chamber		P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	may be measured by drawing air at 2 l/min through a sampling probe equipped with a pre-weighed, high efficiency filter (open face, diameter 37 mm) located near the test sample, as shown in Figure 10.		
	Calculate the dust concentration from the weight of dust collected, the flow rate through the filter and the time of collection.		P
	Other suitable means may be used.		P
8.10.5	Assessment of clogging		P
	Following the exposure, measure the breathing resistance of the particle filtering half mask using clean air. Then measure the filter penetration in accordance with 8.11.	See 8.11	P
8.11	Filter penetration		P
	The device shall be mounted in a leaktight manner on a suitable former and subjected to the filter penetration test, ensuring that components of the device that could affect filter penetration values such as valves and harness attachment points are exposed to the challenge aerosol.		P
	Testing shall be done in accordance with EN143.		P
9.	Marking		P
9.1	Packaging		P
	The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.	Has been marked	P

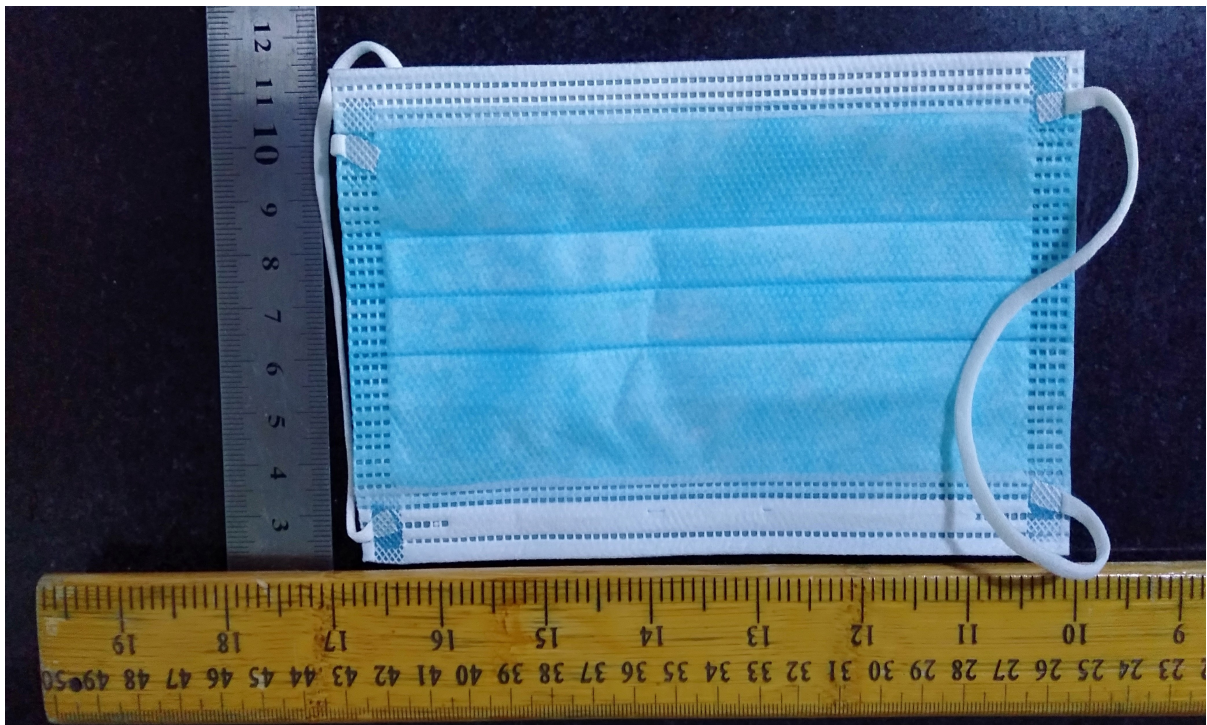
EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
9.1.1	The name, trademark or other means of identification of the manufacturer or supplier.		P
9.1.2	Type-identifying marking.		P
9.1.3	Classification:	FFP2	P
9.1.4	The number and year of publication of this European Standard.	EN 149	P
9.1.5	At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in Figure 12a, where yyyy/mm indicates the year and month.		P
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.	English	P
9.1.7	The manufacturer's recommended conditions of storage (at least the temperature and humidity) of equivalent pictogram, as shown in Figures 12c and 12d.	Refer to user's manual	P
9.18	The packing of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D".		P
10.	Information to be supplied by the manufacturer		P
10.1	Information supplied by the manufacturer shall accompany every smallest commercial available package.		P
10.2	Information supplied by the manufacturer shall be at least in the official language(s) of the country of destination.	English	P
10.3	The information supplied by the manufacturer shall contain all information necessary for	Refer to user manual	P

EN 149			
Clause	Requirement - Test	Result - Remark	Verdict
	trained and qualified persons on		
	- application/limitations;	Refer to user manual	P
	- the meaning of any color coding;	Refer to user manual	P
	- checks prior to use;	Refer to user manual	P
	- donning, fitting;	Refer to user manual	P
	- use;	Refer to user manual	P
	- maintenance (e.g. cleaning, disinfecting), if applicable;	Refer to user manual	P
	- storage;	Refer to user manual	P
	- the meaning of any symbols/pictograms used	Refer to user manual	P
	Of the equipment.		P
10.4	The information shall be clear and comprehensible. If helpful, illustrations, part numbers, marking shall be added.		P
10.5	Warning shall be given against problems likely to be encountered	Has been given	P
10.6	The information shall provide recommendations as to when the particle filtering half mask shall be discarded.		P

Photos of the sample



Photos of the sample



--- End of Test Report ---

Instructions

Product Name: Disposable protective mask

Size: 17.5×9.5cm, 14.5×9.5cm

Material: 20g non-woven fabric + 20g filter paper + 25g non-woven fabric

Color: white, blue, green (Optional)

Packaging: single OPP bag packaging, 30 pieces / box, 30 boxes / box, can also be packed according to the requirements of customers

Features: it is made of high efficiency filter paper and non-woven fabric, which can effectively block particles and bacteria in the air, and it is comfortable and convenient to wear.

Product classification: disposable mask

This mask is divided into adult and children's, with fine workmanship, exquisite packaging and guaranteed quality. It is made of three-layer non-woven fabric and middle filter paper, with good dust-proof and bacteria proof effect and good air permeability!

Correct wearing method:

1. Flat face mask, keep skin dry, white face inward, black face outward of active carbon layer;
2. Hang the ropes on both sides of the mask on both ears, adjust left and right to make the force on both ears even;
3. Unfold the three fold parts of the mask up and down to completely cover the nose and mouth;
4. Use both hands to adjust the nose bridge piece of the mask to make it fit with the nose bridge;
5. Adjust the two sides of the mask to smooth the two sides of the mask and make it fit the face;
6. This mask is disposable. It is recommended to wear it for no more than four hours.

Applicable environment: electronic, hardware, spraying, pharmaceutical, food, packaging, chemical manufacturing industry and personal hygiene use.

Corporate name: GUANGZHOU XINGHUI HEALTH CONTROL CO., LTD

Address: No.33, Zhongshan Five Road, Yuexiu District, Guangzhou City, China

EC Declaration of conformity

Council Directive (EU) 2016/425 on Personal protective equipment

GUANGZHOU XINGHUI HEALTH CONTROL CO., LTD

No.33, Zhongshan Five Road, Yuexiu District, Guangzhou City, China

Certify that the product described is in conformity with the Directive (EU) 2016/425
as amended

Product Name: Disposable protective mask

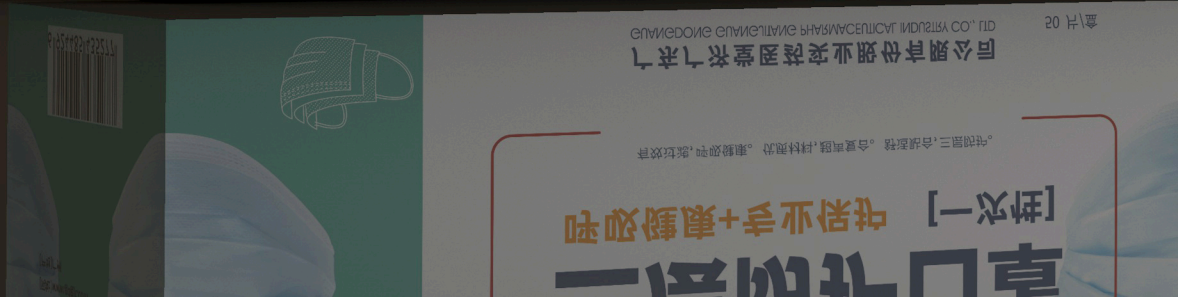
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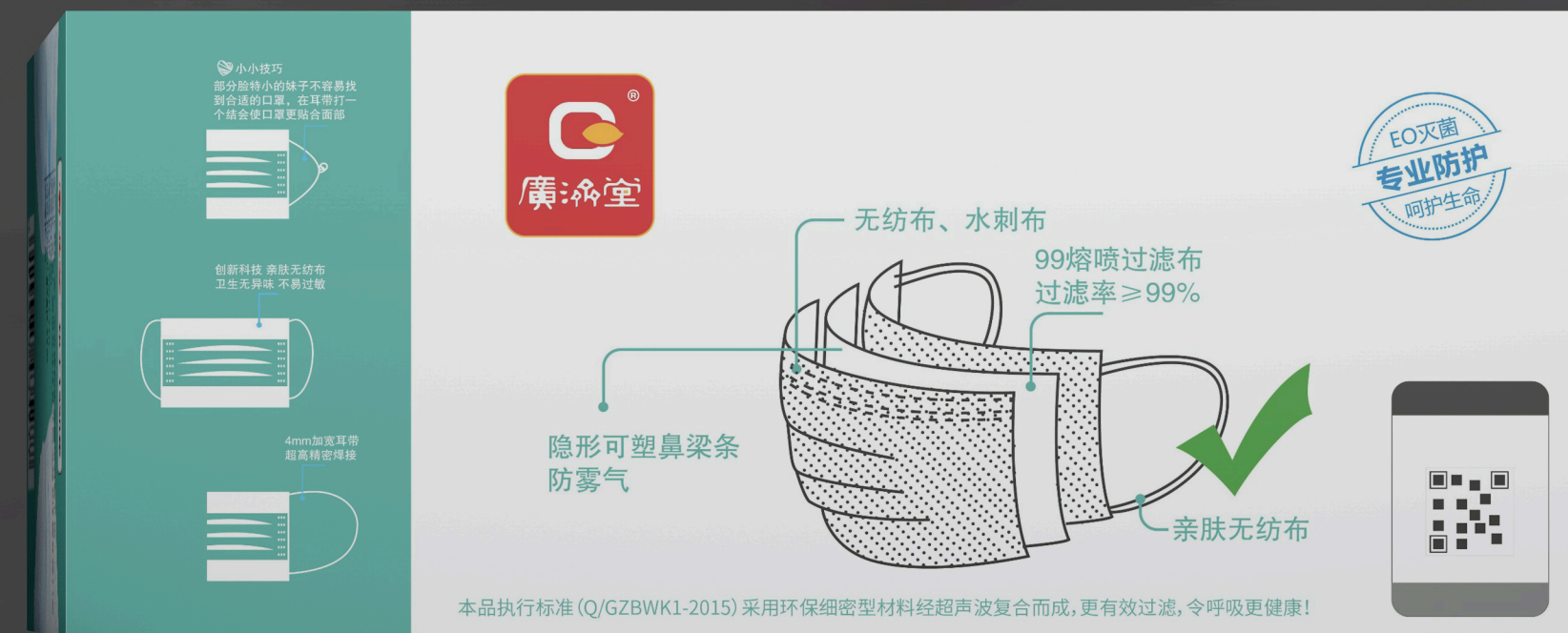
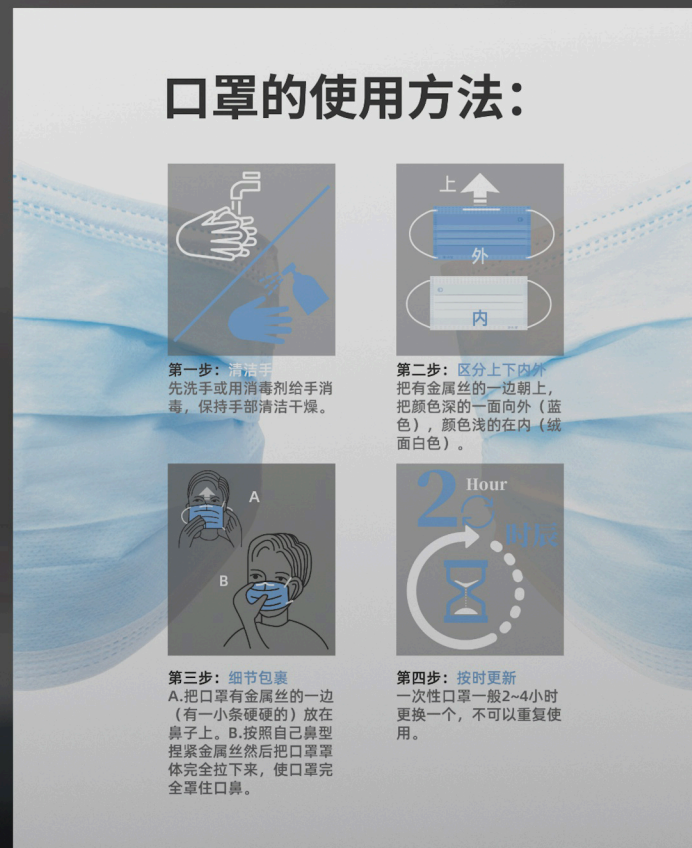
The product has been assessed by the application of the following standards:

EN 149:2001+A1:2009

Issue place and date

Company stamp and Signature of authorized personnel







630mm

350mm

100mm

107mm

205mm



👉 小技巧

部分脸特小的妹子不容易找到合适的口罩，在耳带打一个结会使口罩更贴合面部



创新科技 亲肤无纺布
卫生无异味 不易过敏



加宽耳带
超高精密焊接



本品执行标准 (GB/T 32610-2016)

采用环保细密型材料经超声波复合而成，三层防护，更有效过滤，令呼吸更健康！





350mm

100mm

107mm

205mm

630mm

贴合面部设计

亲肤舒适，透气轻薄



佩戴舒适更高



'高弹力耳挂'

高弹力材质，舒适不勒耳





正面展示



与皮肤接触层采用亲肤材质
佩戴舒适度更高



超声波焊接
内嵌式更美观

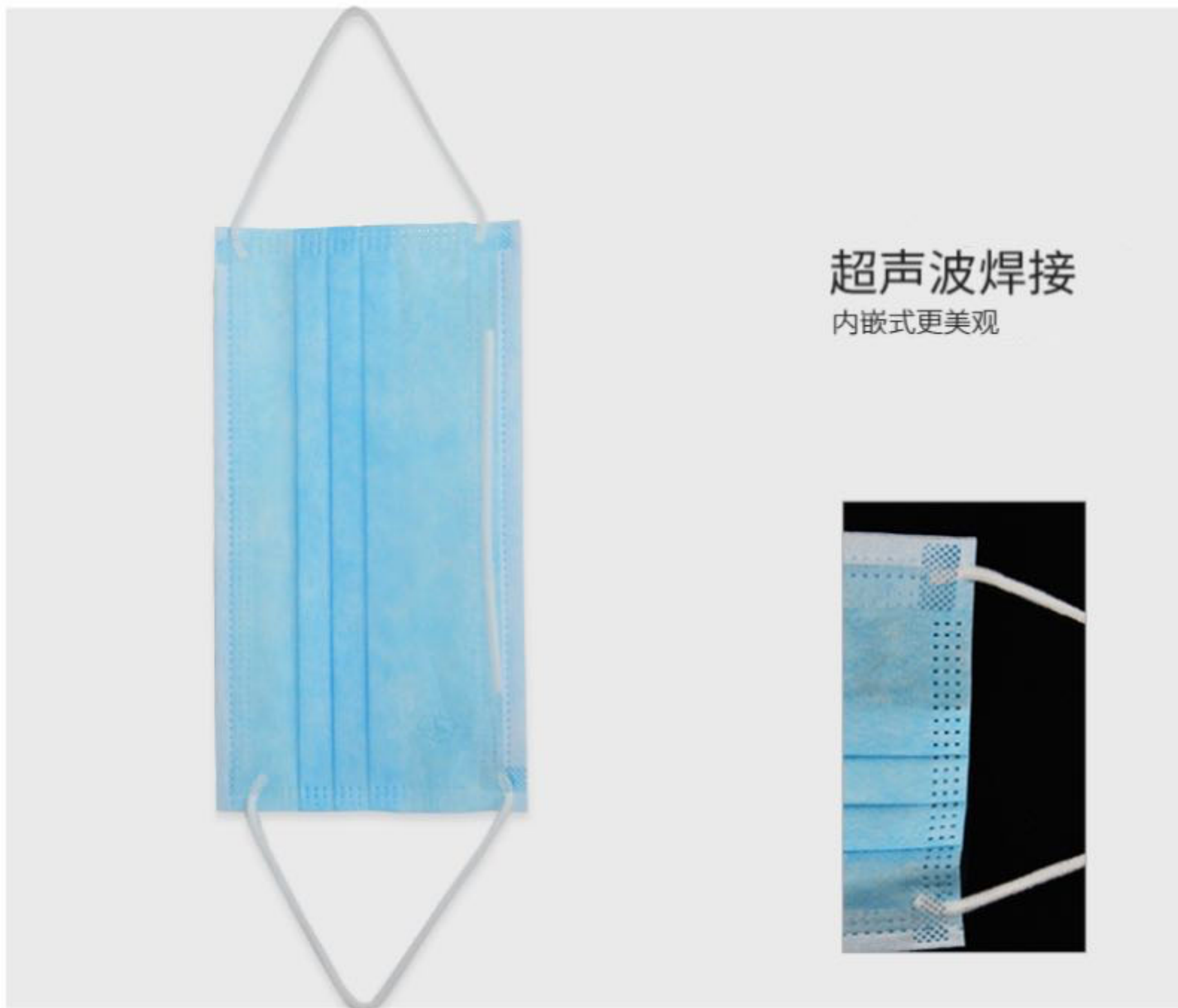




正面展示



与皮肤接触层采用亲肤材质
佩戴舒适度更高



超声波焊接
内嵌式更美观





廣生堂

产品名称: 三层防护口罩
执行标准: GB/T 32610-2016

合格证

PASS CERTIFICATE

生产日期: _____

检验员: _____

产品名称: 三层防护口罩
执行标准: GB/T 32610-2016

廣生堂

检验员: _____

日期: _____

合格证

PASS CERTIFICATE

合格证

PASS CERTIFICATE

检验员: _____

生产日期: _____



三层防护口罩

呼吸健康+专业保护 [一次性]

有效过滤 / 优质材料 / 超声复合 / 舒适贴合

广东广济堂医药实业股份有限公司
GUANGDONG GUANGJITANG PHARMACEUTICAL INDUSTRY CO., LTD

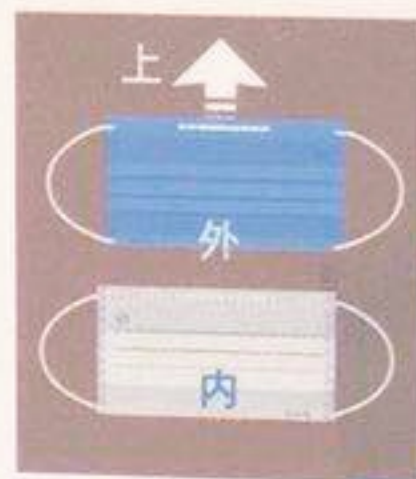
10片/袋×5袋/盒



口罩的使用方法：



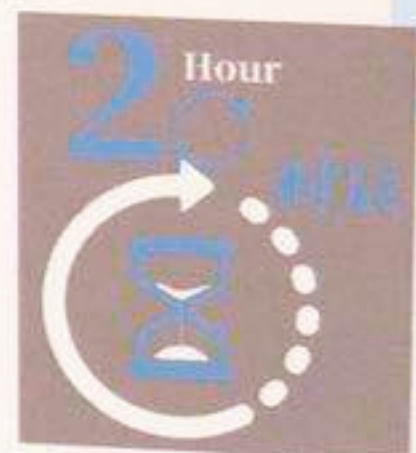
第一步：清洁手
先洗手或用消毒剂给手消毒，保持手部清洁干燥。



第二步：区分上下内外
把有金属丝的一边朝上，把颜色深的一面向外（蓝色），颜色浅的在内（绒面白色）。



第三步：细节包裹
A.把口罩有金属丝的一边（有一小条硬条）放在鼻子上。B.按照自己鼻型捏紧金属丝然后把口罩下拉，使口罩完全罩住口鼻。



第四步：按时更新
一次性口罩一般4小时更换一个，不可以重复使用。丢弃时请将口罩外部向内折叠包裹，避免被隔离在外层的病菌二次污染。



小小技巧

部分脸特小的妹子不容易找到合适的口罩。在耳带打一个结会使口罩更贴合面部



创新科技 亲肤无纺布
卫生无异味 不易过敏



加宽耳带
超高精密焊接



优质无纺布

BFE99熔喷过滤布

隐形可塑鼻梁条
防雾气



亲肤无纺布

本品执行标准 (GB/T 32610-2016)

采用环保细密型材料经超声波复合而成, 三层防护, 更有效过滤, 令呼吸更健康!

合格证
PASS CERTIFICATE

生产日期:

检验员:

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贮存温度: 10°C-40°C



三层防护口罩

呼吸健康+专业保护 [一次性]

有效过滤 / 优质材料 / 超声复合 / 舒适贴合
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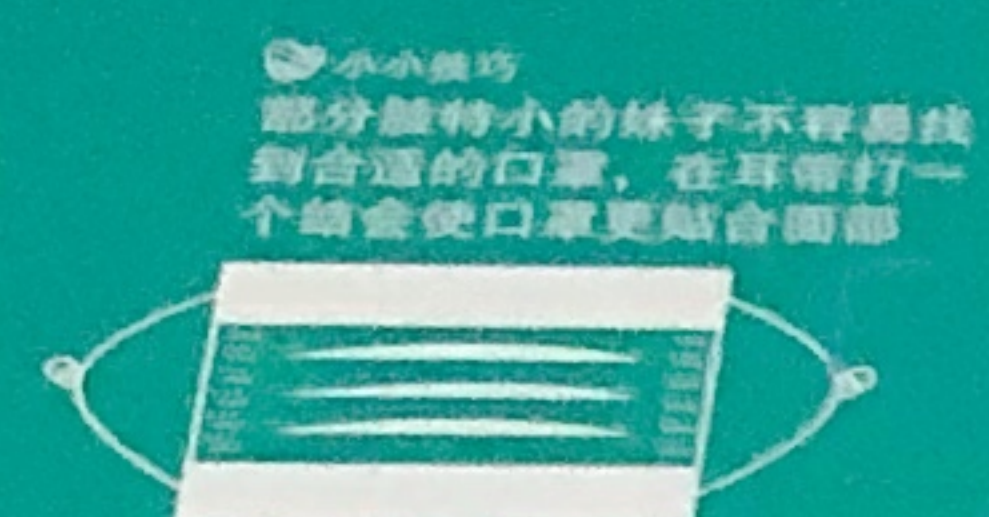
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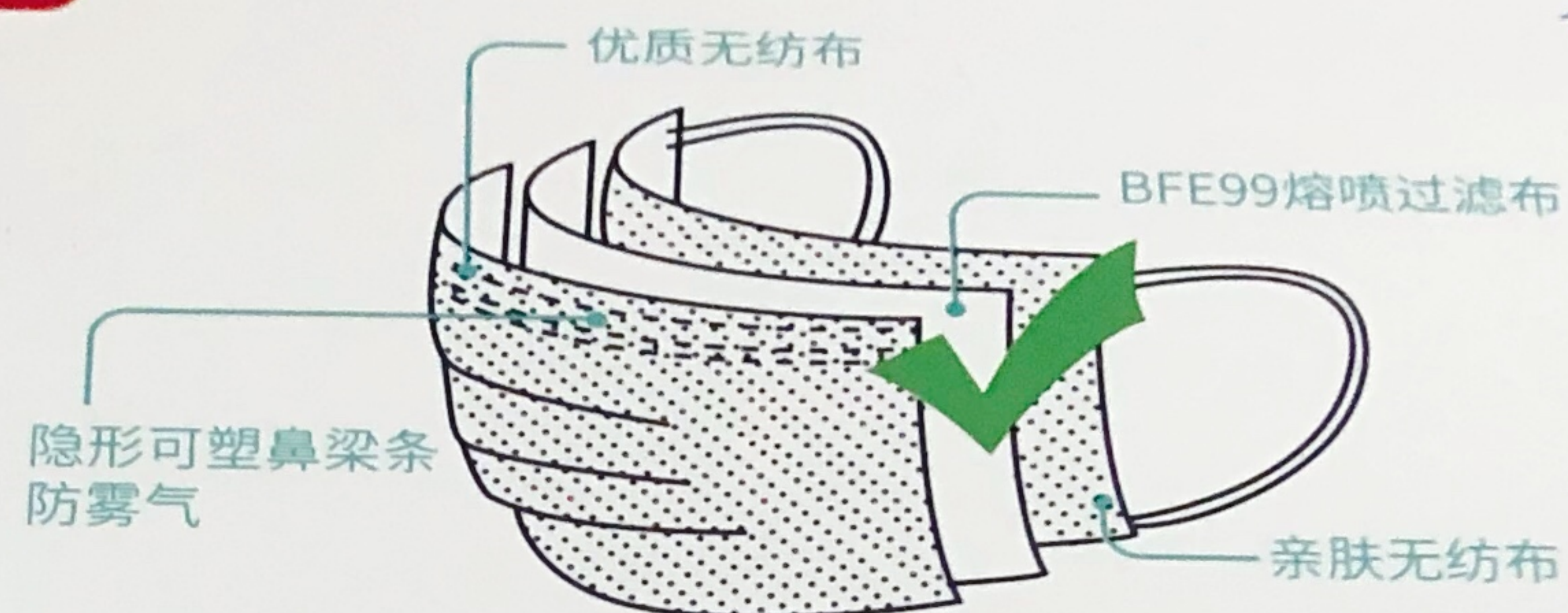




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