

桐城市正恒防护用品有限公司

Tongcheng Zhengheng protective equipment Co., Ltd

证件及产品

Documents and Products



CATALOGUE :

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地址：安徽省桐城市经济技术开发区经四路
网址：www.zhenghengmask.com

Tongcheng Zhengheng protective equipment Co., Ltd



Love is everywhere.

The world is going through a very difficult moment which demands the utmost care and attention from all of us. We are all sons, daughters, fathers and mothers. We are all love healthy human beings. It is important we all follow the advice of WHO (World Health Organization) and the governing bodies on how we handle this current situation. Protecting human life must come above any other interests. We would like to send our thoughts to everyone who has lost someone close to them, we solidarity to those who are fighting the virus, and we continued support to the amazing health professionals putting their own lives at risk to help save others. Our duty is to protect mankind from the virus, to protect families from the pain of losing loved ones, to protect society from collapse and war, Protect the earth from genocide.

-----An ordinary mother



Address: Economic Development Zone, Tongcheng County, Anqing city, Anhui, China

Email: zhmask@163.com

Contact: Life Ye

1、Company profile/公司简介

桐城市正恒防护用品有限公司位于安徽省桐城市经济技术开发区经四路，厂区占地面积约 200 亩，主要经营一次性口罩、过滤口罩、呼吸阀口罩、加湿口罩、儿童口罩、口罩原材料、耳带、鼻梁条、一次性手套、一次性鞋套、一次性浴帽、防护服、塑料包装制品、无纺布制品、劳保用品、防护用品、医疗器械研发、生产、销售；货物或技术进出口（国家禁止或涉及行政审批的货物或技术进出口除外）。

我公司拥有 KN95 设备 200 台，日产量一千万只，一次性平口设备 90 台，日产量 900 万只。公司尊崇“踏实、拼搏、责任”的企业精神，并以诚信、共赢、开创经营理念，创造良好的企业环境，以全新的管理模式，完善的技术，周到的服务，卓越的品质为生存根本，我们始终坚持用户至上 用心服务于客户，坚持用自己的服务去打动客户。



2、Business license/营业执照

	
统一社会信用代码 91340881MA2UJPEK2U(1-1)	
营业执照 (副本)	
 扫描二维码登录 '国家企业信用 信息公示系统' 了解更多登记、 备案、许可、监 管信息。	
名称	桐城市正恒防护用品有限公司
类型	有限责任公司(自然人投资或控股)
法定代表人	陆锦墩
注册资本	壹仟伍佰万圆整
成立日期	2020年03月18日
营业期限	/ 长期
住所	安徽省安庆市桐城市经济技术开发区经四路
经营范围	一次性口罩、过滤口罩、呼吸阀口罩、加湿口罩、儿童口罩、口罩原材料、耳带、鼻架条、一次性手套、一次性鞋套、一次性浴帽、防护服、塑料包装制品、无纺布制品、劳保用品、防护用品、医疗器械研发、生产、销售；货物或技术进出口(国家禁止或涉及行政审批的货物或技术进出口除外)。(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)
登记机关	2020年07月09日 
国家企业信用信息公示系统网址: http://www.gsxt.gov.cn	
市场主体应当于每年1月1日至6月30日通过国家企业信用信息公示系统报送公示	

3、White list of enterprises/企业白名单

English 登陆 | 注册
请输入关键词进行搜索
取得国外认证和注册企业查询
开具不可抗力相关事实性证明

加入商会

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中国医药保健品进出口商会

服务产业链 助力国际化

取得国外标准认证或注册的医疗物资和非医用口罩生产企业检索

桐城市正恒防护用品有限公司

检索


企业名称 (中文)	企业名称 (英文)	产品类别	统一社会信用代码	国外注册认证情况
桐城市正恒防护用品有限公司	Tongcheng Zhengheng Protective Products Co.,Ltd.	非医用口罩	91340881MA2UJUPEK2U	欧盟CE

友情链接

政府部门 副会长单位 国际机构 行业门户

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京ICP备06034461号-1 京公网安备 11010102002916号
互联网药品信息服务资格证书编号: (京)-非经营性-2020-0090



医保商会官方微信



Certificate CN20/42532

The management system of

TongCheng Zhengheng Protective Products Co, Ltd.

Jingsi Road, Tongcheng Economic and Technological Development Zone,
Tongcheng City,
Anqing, Anhui,
China.

has been assessed and certified as meeting the requirements of

Regulation (EU) 2016/425 Module C2

For the following activities

Manufacture of XINZHENGHENG (logo) 9501A particle filtering half mask.

(Note: All products marked CE0598 must have a valid EU type-examination certificate issued under Module B or a valid EC type-examination certificate issued under Article 10 of Directive 89/686/EEC.)

This certificate is valid from 14 November 2020 and remains valid subject to satisfactory surveillance audits. Issue 1. Certified since 14 November 2020

Authorised by



SGS FIMKO OY, Notified Body 0598

Takomatie 8, FI-00380 Helsinki, Finland
t +358 9 696 361 f +358 9 692 5474 www.sgs.com

Page 1 of 1



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Certificate F120/967071

TongCheng Zhengheng Protective Products Co, Ltd.

Jingsi Road, Tongcheng Economic and Technological Development Zone,
Tongcheng City,
Anqing, Anhui,
China.

It is certified that the manufacturer's technical file and the PPE product detailed on
page 2 have been assessed and found to be in accordance with

Regulation (EU) 2016/425 Module B, EU type-examination

This certificate is valid from 28 October 2020 until 28 October 2025
1. Certified since 28 October 2020

Authorised by



SGS FIMKO OY, Notified Body 0598

Takomotie 8, FI-00380, Helsinki, Finland
t +358 9 696 361 f +358 9 692 5474 www.sgs.com

Page 1 of 2



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extent of the law.



Certificate FI20/967071, continued

**TongCheng Zhengheng
Protective Products Co, Ltd.**

Regulation (EU) 2016/425

Module B, EU type-examination

Issue 1

PPE Product

XINZHENGHENG (logo) 9501A particle filtering half mask, consisting of a five layer (Polypropylene/Hot air cotton) disposable face mask, with Polyolefins covered galvanized iron wire nose piece and Polyester/Spandex Ear straps.

It is certified that the manufacturer's technical file and the above mentioned PPE have been assessed and found to meet the applicable Essential Health and Safety Requirements in Annex II of Regulation (EU) 2016/425 Personal Protective Equipment

The following have been applied:

EN 149: 2001 +A1:2009 (Respiratory protective devices- filtering half masks to protect against particles) device classification: FFP2 NR.



This certificate is issued on strict condition that appropriate checks on manufactured PPE, as detailed in Article 19(c) of the regulation are implemented and maintained while the model is in production.

Certification is based on technical file reference:

Filtering half mask(non medical) 9501A, Dated 07.09.2020

SGS Reference Number UK/CRS 241922

This certificate remains the property of SGS Fimko Oy to whom it must be returned on request

对外贸易经营者备案登记表

备案登记表编号: 02862415

统一社会信用代码: 91340881MA2UJPEK2U

进出口企业代码: _____

经营者中文名称	桐城市正恒防护用品有限公司		
经营者英文名称	TongCheng Zhengheng Protective products Co.,Ltd		
组织机构代码	_____	经营者类型 (由备案登记机关填写)	有限责任公司
住 所	安徽省安庆市桐城市经济技术开发区经四路		
经营场所 (中文)	安徽省安庆市桐城市经济技术开发区经四路		
经营场所 (英文)	Jingsi Road, Tongcheng Economic and Technological Development Zone, Tongcheng City, Anqing, Anhui, China		
联系电话	15155629999	联系传真	_____
邮政编码	231400	电子邮箱	350722526@qq.com
工商登记注册日期	2020-3-18	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	陆锦墩	有效证件号	320581198903174316
注册资金	壹仟伍佰万元	(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	变更: 经营者英文名称、经营场所 (英文)
----	-----------------------

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



2020 年 11 月 13 日



质量管理体系认证证书

证书编号: 33920Q11003ROS

兹证明:

桐城市正恒防护用品有限公司

统一社会信用代码: 91340881MA2UJPEK2U

注册地址: 安徽省安庆市桐城市龙腾街道维也纳国际城1号楼101-103

审核地址: 安徽省安庆市桐城市经济开发区和平东路与东环路交口北50米

经现场评审满足: **GB/T19001-2016/ISO9001:2015 标准**

认证范围: KN95 口罩 (非医用) 的生产和销售

发证日期: 2020年05月09日

有效期至: 2023年05月08日

年检情况

第一次监审	第二次监审	第三次监审
-------	-------	-------

注: 获证组织必须定期接受监督审核并经审核合格此证书方继续有效

中企华信认证中心有限公司

签发人:



中企华信认证中心有限公司 地址: 合肥市经济开发区翠微路与芙蓉路交口葛洲坝国际中心16层 230601

本证书的信息可通过中国国家认证认可监督管理委员会官网 (www.cnca.gov.cn) 查询或登录中企华信认证中心有限公司官方网站 (www.zqhiso.com) 查询



CERTIFICATE OF REGISTRATION

Certificate No.: 33920Q11003R0S

This is to certify the quality management systems of

Tongcheng Zhengheng Protective Equipment Co., Ltd.

Unified social credit code: 91340881MA2UJPEK2U

Registered Address: 101-103, Building I, Vienna International City, Longteng Street, Tongcheng City, Anqing City, Anhui Province

Auditing Address: 50 Meters North of the Intersection Between Heping East Road and Donghuan Road, Tongcheng Economic Development Zone, Anqing City, Anhui Province

has been assessed and registered as meeting the requirements of the:

GB/T19001-2016/ISO9001:2015

Scope of approval: Production and sales of KN95 masks (non-medical)

Approval Date : 09/05/2020

Expiry Date : 08/05/2023

Annual Audit Situation

First Annual Audit	Second Annual Audit	Third Annual Audit

Comment: certification is valid only in this requirement that authenticated organization need to be audited at regular intervals and pass it.

ZQHX CERTIFICATION CENTER CO.,LTD

Signed by:



Add: 16th Floor, Gezhouba International Center, Intersection of Cuiwei Road and Furong Road, Economic Development Zone, 230601
The certificate information can be checked on the CNCA website(www.cnca.gov.cn), also can be obtained through ZQHX certification center co., ltd website (www.zqxiso.com)

4、Test report/检测报告



中国认可
国际互认
检测
TESTING
CNAS 1.0305

检 验 报 告

TEST REPORT

№: (2020) 皖检 XF 字 第 03118 号

产品名称 耳带式 KN95 口罩
Product Name

受检单位 /
Inspected Body

委托单位 桐城市正恒防护用品有限公司
Client

检验类别 委托检验
Kind of Test

 安徽省产品质量监督检验研究院
Anhui Provincial Supervising & Testing Research Institute for Product Quality

注 意 事 项

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4. 对监督性质的各类检验报告若有异议，应于收到报告之日起十五日内向实施监督抽查的产品质量监督部门或其上级产品质量监督部门申请复查，逾期不予受理。异议期有特殊规定的，执行特殊规定。
5. 委托检验仅对该委托的样品负责。
6. 在收到报告一个月来我单位办理退样手续，逾期按无主处理。保存期有特殊规定的，执行特殊规定。
7. 扫描检验报告封面上的二维码，可识别检验报告真伪。
8. 本注意事项以中文为准，解释权属于本单位。

检测地址：安徽省合肥市包河工业区延安路 13 号、经济技术开发区天都路 33 号、包河区芜湖路 239 号、阜阳北路 238 号合肥燃气学院一楼、北城新区金岗大道与瑞丰路交汇处、滁州市来安县汉河经济开发区朝阳路 9 号。

业务联系电话：0551-63855622（建筑消防、节水排灌）、63356267（电子电器）、63355216（机械轻工）、63499510（食品化工）、63356420（纤维纺织）、62880812（黄金珠宝）、0550-2350071（轨道交通）。

网址：www.ahzjy.org.cn

REMARK

1. The test report is invalid if there are not the marks of the special stamps for test or the testing laboratory's official stamps.
2. The test report shall not be reproduced except in full, without written approval of the testing laboratory.
3. The test report is invalid without the signature of master-testor, auditor and approver, or it has been altered.
4. As to supervision tests, if there is objection, within 15 days from the date of receipt of the report should be responsible for the supervision and spot check product quality supervision department or its superior product quality supervision departments apply for review, within the time limit shall not accept it. If there are special provisions on the objection period, special provisions shall be implemented.
5. As to entrusted tests, the results presented relate only to the received samples.
6. If without objection, applicant should take back the sample within one month after receiving the test report, otherwise the sample will be abandoned. If there are special provisions on the term of deposit, special provisions shall be implemented.
7. Scan the qr code on the cover of the report to identify the authenticity of the report.
8. In case of discrepancy, the original version in Chinese shall prevail, and the right of interpretation belongs to the testing laboratory.

安徽省产品质量监督检验研究院

Anhui Provincial Supervising & Testing Research Institute for Product Quality

检 验 报 告

TEST REPORT

No: (2020)皖检 XF 字第 03118 号

共 3 页 第 1 页

产品名称 Product Name	耳带式 KN95 口罩		型号规格 Model/Type	/	
标称生产单位 Nominal Manufacturer	/		受检单位 Inspected Body	/	
委托单位 Client	桐城市正恒防护用品有限公司		抽样单位 Sampling Body	/	
委托单位地址 Client Address	/		抽样地点 Sampling Site	/	
检验项目 Test Items	共查项【详见附页】		样品特性和状态 Sample Character and Condition	外观无异常	
检验日期 Test Date	2020.4.11—2020.4.14		原编号或生产日期 Serial Number/Manufactured Date	/	
标称商标/品牌 Nominal Trade Mark/Brand	/	抽样人员 Sealing Staff	/	检查封样人员 Checking and Sealing Samples	/
检验类别 Kind of Test	委托检验	抽样基数 Sampling Base	/	样品数量 Samples Quantity	20 只
样品等级 Sample Grade	KN95	抽样日期 Sampling Date	/	到样日期 Receipt Date	2020.04.10
检验依据 Test Criteria	GB2626-2006				
检验结论 Test Conclusion	该样品按 GB2626-2006 标准检验, 所检项目合格。				
备注 Note	样品信息和外观照片见附页。				



批准:
Approved by:

王玮

审核:
Audited by:

魏伟伟

主检:
Tested by:

唐思思

安徽省产品质量监督检验研究院

检验报告附页

No: (2020) 皖检 XF 字 第 03118 号

共 3 页 第 2 页

序号	检验项目名称	技术要求	检验结果	单项判定	检测方法
/	/	KN95	/	/	/
1	过滤效率 (%) 氯化钠颗粒物	≥ 95.0	未处理样品 98.4、98.3、98.5、 98.4、98.3、98.4、 98.4、98.4、98.4、 98.4 温湿度预处理样品 97.8、97.6、97.6、 97.6、97.7	合格	GB2626-2006

安徽省产品质量监督检验研究院
检验报告附页

No: (2020)皖检 XF字 第03118号

共3页 第3页

样品信息和外观照片:



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中国认可
国际互认
检测
TESTING
CNAS L0599

Test Report SL52035272492501TX Date: July 09, 2020 Page 1 of 10

TONGCHENG ZHENGHENG PROTECTIVE PRODUCTS CO.,LTD
JINGSI ROAD, TONGCHENG ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, TONGCHENG
CITY, ANQING, ANHUI, CHINA

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

Sample Description : (A) Filtering half mask (non-medical)
 Sample color : White
 Style No : 9501A
 Country of Origin : CHINA
 Country of Destination : EU
 Sample Receiving Date : May 23, 2020
 Testing Period : May 23, 2020 - Jul 09, 2020
 Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).
 Test Performed : Selected test(s) as requested by applicant

Conclusion:

Sample No.	Recommendation Level
(A)	FFP2 NR

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

Sara Guo (Account Executive)



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Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755)83871443, or email: CN_09cstc@sgs.com
 3 Building No.888 Yuhuan Road/Xuhui District Shanghai, China 200235 1 (86-21) 61400666 f (86-21) 64958763 www.sgs.com.cn
 中国·上海·徐汇区宜山路888号3号楼 邮编: 200235 1 (86-21) 61400666 f (86-21) 64958763 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Result

Respiratory Protective Devices — Filtering Half Masks to Protect against Particles — Requirements,

Testing, Marking

(EN 149:2001+A1:2009)

Clause 7.4 Packaging

(EN 149:2001+A1:2009 Clause 8.2)

Test Requirement	Results	Comment
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.	Comply	Pass

Clause 7.5 Material*

(EN 149:2001+A1:2009, Clause 8.2 & 8.3.1 & 8.3.2)

Test Requirement	Results	Comment
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.	Comply	Pass
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.	Comply	
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Comply	
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Comply	

Clause 7.6 Cleaning and Disinfecting*

(EN 149:2001+A1:2009, Clause 8.4 & 8.5 & 8.11)

Test Requirement	Results	Comment
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. With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.	Not applicable (Not designed to be re-usable)	N.A.

Clause 7.7 Practical Performance*

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement	Results	Comment
The 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.	No imperfections	Pass

Clause 7.8 Finish of Parts

(EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
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



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Clause 7.9.1 Total Inward Leakage*

(EN 149:2001+A1:2009, Clause 8.5)

Test Requirement	Results	Comment
<p>The total inward leakage consists of three components: face seal leakage, exhalation value leakage(if exhalation value fitted) and filter penetration. For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual exercise results (i.e. 10 subjects x 5 exercises) for total inward leakage shall be not greater than: 25% for FFP1, 11% for FFP2, 5% for FFP3</p> <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</p>	Detail refer to Appendix 1	Meet FFP1 Meet FFP2

Appendix 1: Summarization of Test Data

Inward Leakage Test Data

Subject	Sample No.	Condition	Walk(%)	Head Side/side(%)	Head up/down(%)	Talk(%)	Walk(%)	Mean(%)
1#	1	A.R.	6.0	6.3	5.0	6.7	6.9	6.2
2#	2	A.R.	5.3	6.4	4.8	6.1	6.6	5.8
3#	3	A.R.	6.2	6.8	5.6	7.1	7.3	6.6
4#	4	A.R.	4.9	6.3	4.7	6.4	7.5	6.0
5#	5	A.R.	5.9	5.2	5.2	6.5	7.0	6.0
6#	6	T.C.	5.8	6.2	5.0	6.9	6.6	6.1
7#	7	T.C.	5.6	5.9	4.8	6.4	6.7	5.9
8#	8	T.C.	6.1	6.3	5.2	6.6	6.9	6.2
9#	9	T.C.	5.4	5.9	4.8	6.2	6.5	5.8
10#	10	T.C.	6.4	6.7	5.5	7.1	7.5	6.6

Facial Dimension

Subject	Face length(mm)	Face Width(mm)	Face Depth(mm)	Mouth Width(mm)
1#	120	130	109	59
2#	122	140	115	65
3#	119	160	139	55
4#	112	122	119	63
5#	110	130	118	60
6#	115	119	110	59
7#	112	123	113	55
8#	103	130	100	50
9#	118	139	130	63
10#	120	135	125	50



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Clause 7.9.2 Penetration of Filter Material*
(EN 149:2001+A1:2009, Clause 8.11 & EN 13274-7:2019)

Test Requirement	Results	Comment														
The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.	Detail refer to Appendix 2	Meet FFP1 Meet FFP2														
<table border="1"> <thead> <tr> <th rowspan="2">Classification</th> <th colspan="2">Maximum penetration of test aerosol</th> </tr> <tr> <th>Sodium chloride test 95 l/min % max.</th> <th>Paraffin oil test 95 l/min % max.</th> </tr> </thead> <tbody> <tr> <td>FFP1</td> <td>20</td> <td>20</td> </tr> <tr> <td>FFP2</td> <td>6</td> <td>6</td> </tr> <tr> <td>FFP3</td> <td>1</td> <td>1</td> </tr> </tbody> </table>			Classification	Maximum penetration of test aerosol		Sodium chloride test 95 l/min % max.	Paraffin oil test 95 l/min % max.	FFP1	20	20	FFP2	6	6	FFP3	1	1
Classification				Maximum penetration of test aerosol												
			Sodium chloride test 95 l/min % max.	Paraffin oil test 95 l/min % max.												
FFP1			20	20												
FFP2	6	6														
FFP3	1	1														

Appendix 2: Summarization of Test Data

Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)
Sodium chloride test	As received	1	0.5
		2	0.6
		3	0.5
	Simulated wearing treatment	4	0.6
		5	0.5
		6	0.7
	Mechanical strength + Temperature conditioned	7	1.6
		8	1.7
		9	1.7
Paraffin oil test	As received	10	1.2
		11	1.1
		12	1.2
	Simulated wearing treatment	13	1.1
		14	1.2
		15	1.3
	Mechanical strength + Temperature conditioned	16	2.7
		17	2.5
		18	2.7

Flow conditioning : Single filter: 95.0 L/min



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Clause 7.10 Compatibility with Skin*
(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Test Requirement	Results	Comment
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

Clause 7.11 Flammability*
(EN 149:2001+A1:2009, Clause 8.6)

Test Requirement	Results	Comment
The material used shall not present a danger for the wearer and shall not be of highly flammable nature 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.	Detail refer to Appendix 3	Pass

Appendix 3: Summarization of Test Data

Flammability

Condition	Sample No.	Result
As received	1	Burn for 0.1s
	2	Burn for 0.1s
Temperature conditioned	3	Burn for 0.1s
	4	Burn for 0.1s

Clause 7.12 Carbon Dioxide Content of The Inhalation Air*
(EN 149:2001+A1:2009, Clause 8.7)

Test Requirement	Results	Comment
The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0 % (by volume)	Detail refer to Appendix 4	Pass

Appendix 4: Summarization of Test Data

Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Result
As received	1	0.7124%
	2	0.7130%
	3	0.7121%
		Mean value :0.71%



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Clause 7.13 Head Harness*

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Test Requirement	Results	Comment
The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.	Comply	Pass
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.	Comply	

Clause 7.14 Field of Vision*

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement	Results	Comment
The field of vision is acceptable if determined so in practical performance tests.	Comply	Pass

Clause 7.15 Exhalation Valve(s)*

(EN 149:2001+A1:2009, Clause 8.2 & 8.9.1 & 8.3.4 & 8.8)

Test Requirement	Results	Comment
(a) A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	Not applicable due to exhalation valve	N.A
(b) 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.	Not applicable due to exhalation valve	
(c) 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.	Not applicable due to exhalation valve	
(d) When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10N applied for 10 s.	Not applicable due to exhalation valve	



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Clause 7.16 Breathing Resistance*
(EN 149:2001+A1:2009, Clause 8.9)

Test Requirement				Results	Comment
The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.				Detail refer to Appendix 5	Meet FFP1 Meet FFP2 Meet FFP3
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		

Appendix 5: Summarization of Test Data
Breathing resistance (mbar)

As received	Flow rate		1					2					3				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Inhalation	30 l/min	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	
		0.7	0.7	0.8	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.8	0.7	0.7	0.8	0.7	
	95 l/min	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.4	1.3	1.3	1.4	1.4	1.3	1.4	
Exhalation	160 l/min	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.4	1.3	1.3	1.4	1.4	1.3	1.4	
		1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.4	1.3	1.3	1.4	1.4	1.3	1.4	
	160 l/min	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.4	1.3	1.3	1.4	1.4	1.3	1.4	
Simulated wearing treatment	Flow rate		4					5					6				
	Inhalation	30 l/min	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.2
		95 l/min	0.7	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.7	0.7
Exhalation	160 l/min	1.4	1.3	1.4	1.4	1.3	1.3	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.4	
	160 l/min	1.4	1.3	1.4	1.4	1.3	1.3	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.4	
Temperature conditioned	Flow rate		7					8					9				
	Inhalation	30 l/min	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2
		95 l/min	0.7	0.7	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.7	0.7	0.7	0.8	0.7
Exhalation	160 l/min	1.3	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.4	1.3	
	160 l/min	1.3	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.4	1.4	1.3	1.4	1.4	1.3	

A: facing directly ahead; B: facing vertically upwards; C: facing vertically downwards; D: lying on the left side; E: lying on the right side



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Clause 7.17 Clogging*

(EN 149:2001+A1:2009, Clause 8.9 & 8.10)

Test Requirement	Results	Comment																			
<p>Clause 7.17.2 Breathing resistance 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.</p> <p>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</p>	Optional for single shift device only	NA																			
<p>Clause 7.17.3 Penetration of filter material All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.</p> <table border="1"> <thead> <tr> <th rowspan="3">Classification</th> <th colspan="2">Maximum penetration of test aerosol</th> </tr> <tr> <th>Sodium chloride test 95 l/min</th> <th>Paraffin oil test 95 l/min</th> </tr> <tr> <th>%</th> <th>%</th> </tr> </thead> <tbody> <tr> <td></td> <td>max.</td> <td>max.</td> </tr> <tr> <td>FFP1</td> <td>20</td> <td>20</td> </tr> <tr> <td>FFP2</td> <td>6</td> <td>6</td> </tr> <tr> <td>FFP3</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	Classification	Maximum penetration of test aerosol		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min	%	%		max.	max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	Optional for single shift device only	NA
Classification		Maximum penetration of test aerosol																			
		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min																		
	%	%																			
	max.	max.																			
FFP1	20	20																			
FFP2	6	6																			
FFP3	1	1																			

Clause 7.18 Demountable Parts

(EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
All demountable parts (if fitted) shall be readily connected and secured, where possible by hand	No demountable parts	N.A.

Test	Uncertainty
Total inward leakage	2.98%
Penetration of filter material	1.00%
Flammability	1.00%
Carbon dioxide content of the inhalation air	0.93%
Breathing resistance	1.90%

*: This test standard is carried out by external laboratory accredited by CNAS (China National Accreditation Service for Conformity Assessment) L10118.



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