

HYNAUT
海氏海诺®

Qingdao Hainuo Biological Engineering Co., Ltd.

青岛海诺生物工程有限公司

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Tel: +86-0532-86999302
E-mail: info@hynaut.cn

青岛海氏海诺集团

产品册——口罩

Product catalogue— Face Mask

QINGDAO HAINUO GROUP

About us

Hainuo Group was founded in 2004 and now has more than 20 subsidiary corporations. Our headquarter is located in Jiangshan industrial park in Laixi, Qingdao, which is very close to the main highway, Huashan International Golf Course, Qingdao International Airport and Qingdao Harbor. Our factory covers an area of 220,000 square meters with super geographical position and convenient transportation.

We have a dozen up-to-date factories, multiple Class 100,000 cleanrooms and Class 300,000 cleanrooms, modern logistics and storage facilities, advanced production facilities and detecting instruments. More than 2,000 professional staffs devote themselves to their job and the development of Hainuo, a lot of them are experts, professors and licensed pharmacists from Chinese Pharmaceutical Association as well as the State Council. We also have technology support and cooperation of many research institutions and companies from USA, Germany and Taiwan, China.

Hainuo keeps moving forward and we're always open to your ideas and advices. Please don't hesitate to let us know if you're interested in working with us and a deeper level of cooperation!

OUR BRANDS



HYNAUT for Overseas Market



HAINUO for Domestic Market



Face mask Series

- HYNAUT brand.
- Direct sales from the factory to ensure high quality.
- Direct contract signing to ensure safe transactions.
- CE / FDA / TGA / USA EUA and other qualifications are complete. Various product test reports are available.

HYNAUT

海氏海诺®

We have several modern workshops and logistics storage facilities that meet international standards, equipped with advanced production facilities and high-precision testing instruments. There are nearly 2,000 employees including experts, professors and licensed pharmacists from the Chinese Pharmaceutical Association. Technical support and collaboration are provided by many scientific research institutions and companies from USA, Germany and Taiwan, China.



Clean Workshop





Production

Line

Detecting instrument





Qingdao Hainuo Biological Engineering Co., Ltd is on the

Name List of Medical Devices and Supplies Companies with Certification/Authorization from other Countries



**CHINA CHAMBER OF COMMERCE FOR
IMPORT & EXPORT OF MEDICINES & HEALTH PRODUCTS**

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
青岛海诺生物工程有限公司	Qingdao Hainuo Biological Engineering Co., Ltd	医用口罩	913702857180717488	欧盟CE
海氏海诺乐享医疗科技 (青岛) 有限公司	Haishi Hainuo Lexiang Medical Technology(Qingdao)Co.,Ltd	医用口罩	91370202MA3QNT959R	欧盟CE
青岛海诺生物工程有限公司	Qingdao Hainuo Biological Engineering Co., Ltd	新型冠状病毒检测试剂	913702857180717488	欧盟CE
海氏海诺乐享医疗科技 (青岛) 有限公司	Haishi hainuo lexiang medical technology(Qingdao)Co.,Ltd	非医用口罩	91370202MA3QNT959R	欧盟CE
海氏海诺乐享医疗科技 (青岛) 有限公司	Haishi hainuo lexiang medical technology(Qingdao)Co.,Ltd.	非医用口罩	91370202MA3QNT959R	美国EUA

Qingdao Hainuo Biological Engineering Co., Ltd. under the group is a national white-listed enterprise for anti-epidemic materials, a special credit subsidy unit for financial credit granted by banks, and a white-listed enterprise for face mask approval by the State and Provincial Drug Administration.

中华人民共和国商务部 中华人民共和国海关总署 国家市场监督管理总局 公告

2020年第12号

关于进一步加强防疫物资出口质量监管的公告

在全球疫情持续蔓延的特殊时期，为更有效支持国际社会共同应对全球公共卫生危机，现就进一步加强防疫物资质量监管、规范出口秩序有关措施公告如下：

一、加强非医用口罩出口质量监管。自4月26日起，出口的非医用口罩应当符合中国质量标准或国外质量标准。

商务部确认取得国外标准认证或注册的非医用口罩生产企业清单（中国医药保健品进出口商会网站 www.cccmhpie.org.cn 动态更新），市场监管总局提供国内市场查处的非医用口罩质量不合格产品和企业清单（市场监管总局网站 www.samr.gov.cn 动态更新），非医用口罩出口企业报关时须提交电子或书面的出口方和进口方共同声明（参考附件1），确认产品符合中国质量标准或国外质量标准，进口方接受所购产品质量标准且不予于医

权威发布：口罩等防疫物资出口企业“黑名单”出炉！附2235家“白名单”企业清单！

◎ 2020-04-26 17:08:00 □ 国际贸易 □ 口罩

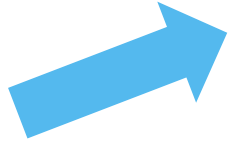
昨天（4月25日）傍晚，商务部、海关总署和国家市场监督管理总局紧急发布 2020年第12号公告，宣布进一步升级对包括非医用口罩在内防疫物资出口质量监管措施！

消息一出，业界哗然，这宣告了以瞒报，漏报，夹带和冲关等不合规口罩出口模式，已经完全行不通了！合法合规和产品合格将是口罩出口唯一出路！

在这份最新的12号公告中，三部委特别给出了一份震惊业界的白名单和黑名单！这基本可以看作是合格口罩出口企业的一本通行证，也是伪劣口罩生产企业的一份通缉令！

263	辽械注准20202140108	一次性使用医用口罩	辽宁金凤凰服饰有限公司
264	辽械注准20202140118	一次性使用医用口罩	浩宁实业（沈阳）有限公司
265	鲁械注准20152640334	普通医用口罩	山东爱达医用制品有限公司
266	鲁械注准20152640428	一次性医用口罩	临沂康利医疗器械有限公司
267	鲁械注准20162640455	一次性使用医用口罩	德州康迪医疗用品有限公司
268	鲁械注准20162640461	医用一次性口罩	山东昂扬医疗科技有限公司
269	鲁械注准20162640494	一次性使用医用口罩（非外科用）	青岛海诺生物工程有限公司
270	鲁械注准20162640492	医用口罩	山东华星医疗器械有限公司
271	鲁械注准20172640395	一次性使用医用口罩	青岛科美生物工程有限公司
272	鲁械注准20172640652	一次性使用医用口罩（非外科用）	山东朱氏药业集团有限公司
273	鲁械注准20172640889	一次性使用医用口罩	山东省聚成医疗器械有限公司
274	鲁械注准20182140392	一次性使用医用口罩	山东创新医疗器械科技有限公司
170	鲁械注准20142140149	医用外科口罩	威海鸿宇无纺布制品有限公司
171	鲁械注准20152640383	医用外科口罩	青岛盛久医疗用品有限公司
172	鲁械注准20162640237	医用外科口罩	山东创新医疗器械科技有限公司
173	鲁械注准20162640388	医用外科口罩	德州康迪医疗用品有限公司
174	鲁械注准20162640493	一次性使用医用外科口罩	青岛海诺生物工程有限公司
175	鲁械注准20162640602	医用外科口罩	青岛华星医疗器械有限公司
176	鲁械注准20172640005	医用外科口罩	日照三奇医疗卫生用品有限公司
177	鲁械注准20172640350	医用外科口罩	山东省聚成医疗器械有限公司
178	鲁械注准20172640500	一次性使用医用外科口罩	山东九尔实业集团有限公司

口罩
Face Mask Series



一次性防护口罩
Disposable Protective Face Mask



一次性防护口罩
Protective Face Mask
C006



一次性防护口罩 (儿童)
Protective Face Mask (Kid)
C011



一次性医用口罩
Disposable Medical Face Mask



一次性医用口罩TYPE I
Disposable Medical Face Mask Type I
C007



一次性医用口罩TYPE IIR
Disposable Medical Face Mask Type IIR
C010



KN95防护口罩
KN95 Protective Face Mask



KN95/FFP2防护口罩
KN95/FFP2 Protective Face Mask
C004

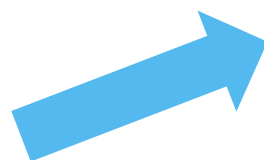


KN95防护口罩
KN95 Protective Face Mask
C005

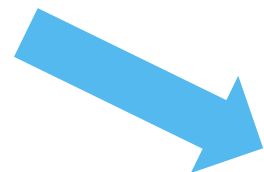


KN95防护口罩 (儿童)
KN95 Protective Face Mask (Kid)
C012

1. 一次性防护口罩
Disposable Protective Face Mask



一次性防护口罩
Protective Face Mask
C006



一次性防护口罩 (儿童)
Protective Face Mask (Kid)
C011

一次性使用防护口罩

Disposable Protective Face Mask



Model: C006

Size: 17.5*9.5cm

Disposable Face Mask

- *Non-woven+melt-blown+non-woven*
- *Personal Protective*



包装效果图

Packing Effect Drawing



50pcs/box

一次性使用防护口罩 (儿童)

Disposable Protective Face Mask (For kids)



Disposable Face Mask

- *Non-woven+melt-blown+non-woven*
- *Personal Protective*



Model:

C011

Size:

14.5*9cm

包装效果图

Packing effect drawing



50pcs/box

检验报告 T/CTCA 7-2019

Test Report T/CTCA 7-2019



检验报告

TEST REPORT



报告编号: WT204025664

第 1 页, 共 4 页

委托单位: 青岛海诺生物工程有限公司 QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD
 委托单位地址: 青岛市莱西市姜山镇工业园广东路1号NO.1 GUANGDONG ROAD, JIANGSHAN INDUSTRIAL ZONE LAIXI CITY, QINGDAO, CHINA
 样品名称: 防护口罩
 型号/规格/等级: C006, C011
 检验类别: 送样检验
 检验地点: 龙华实验基地 Longhua Experimental Base

深圳市计量质量检测研究院
(检验检测专用章)

签发日期: 2020年05月08日

批准人: 何行月 陈晶

签名: 何行月 陈晶



检验报告

报告编号: WT204025664

第 2 页, 共 4 页

样品信息:

样品名称: 防护口罩
 商标: HYNALUO海氏海诺
 型号/规格/等级: C006, C011
 样品编/批号: 200331
 生产日期: 2020-03-31
 生产单位: 青岛海诺生物工程有限公司
 生产单位地址: 青岛市莱西市姜山镇工业园
 样品数量: 50只 抽样基数: _____
 抽样地点: _____
 抽样人员: _____
 检前样品描述: 正常, Normal.

客户信息:

委托单位: 青岛海诺生物工程有限公司 QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD
 委托单位地址: 青岛市莱西市姜山镇工业园广东路1号NO.1 GUANGDONG ROAD, JIANGSHAN INDUSTRIAL ZONE LAIXI CITY, QINGDAO, CHINA
 委托单位电话: 17561677800
 邮政编码: _____
 受检单位: _____

检验信息:

委托日期: 2020年04月20日 委托单号: 8249571
 检验类别: 送样检验 获样方式: 送样
 检验日期: 2020年04月20日至 2020年05月08日
 检验环境温度: (18~25)℃ (30~70) %RH
 判定依据: T/CTCA 7-2019
 检测依据: 见附页 refer to next pages

检验结论:

检验结果见附页。
 Test result refer to next pages.

主检: 谢丹菊 郭正海 审核: 陈开江 黄建飞

检验报告 T/CTCA 7-2019

Test Report T/CTCA 7-2019



检验报告

报告编号: WT204025664

第 3 页, 共 4 页

检验项目 Test Item	标准要求 Requirement	实测结果 Test Result	单项结论 Conclusion
1. 通气阻力 (Pa) Ventilation resistance (T/CTCA 7-2019)	≤80	(YY 0469-2011) 1# 2# 3# 34.4 33.7 37.8 空气流量Flow: 30L/min	符合 Conformity
2. 颗粒物过滤效率 Particle filtration efficiency (%) (T/CTCA 7-2019)	≥80	(YY 0469-2011) 1# 2# 3# 94.23 93.98 94.66 气溶胶颗粒Aerosol chamber: NaCl 气溶胶浓度concentration of Aerosol chamber: 15mg/m ³ 温度Temperature: 24.7℃ 相对湿度 Relative humidity: 34.7%	符合 Conformity
3. 口罩带及口罩带与 口罩体的连接处断裂 强力 Tensile Strength of mask string and connect part between mask string and mask (N) (T/CTCA 7-2019)	≥10	(YY 0469-2011) 1#~3#符合 Conformity (定负荷: 10N, 持续5s) (fixed load:10N, lasting for 5s)	符合 Conformity



检验报告

报告编号: WT204025664

第 4 页, 共 4 页

检验项目 Test Item	标准要求 Requirement	实测结果 Test Result	单项结论 Conclusion
4. 细菌过滤效率(%) Bacterial filtration efficiency (BFE) (T/CTCA 7-2019)	≥95	(YY 0469-2011) 1# 2# 3# 100 100 100	符合 Conformity

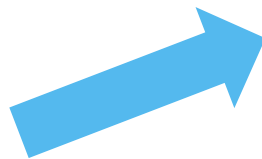
附注Note:

1. 此报告以中文为准, 英文仅作参考。The Chinese version of this test report is the standard one, the English version is only for reference.
2. 我院获CNAS认可能力范围未涉及T/CTCA 7-2019;
Testing scopes of CNAS do not involve T/CTCA 7-2019.

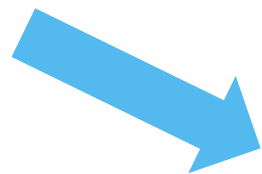


以下空白 END OF REPORT

2. 一次性医用口罩
Disposable Medical Face Mask



一次性医用口罩TYPE I
Disposable Medical Face Mask Type I
C007



一次性医用口罩TYPE IIR
Disposable Medical Face Mask Type IIR
C010

一次性使用医用口罩（非外科用）

TYPE I 非无菌

Disposable Medical Face Mask (Non-surgical)

TYPE I Non-Sterile



Disposable Face Mask

non-woven + melt-blown + non-woven

- *Personal Protective*
- *Medical EN14683 type I*



Model:

C007

Size:

17.5*9.5cm

包装效果图

Packing Effect Drawing



50pcs/box

箱规&件重尺

Packing Size

产品 (Product)	箱子尺寸 (Carton size)	毛重 (G.W.)	净重 (N.W.)	体积 (CBM)	包装规格 (Packing Size)
C007 Disposable Medical Mask 3 PLY	53*39*43cm	10kg	8.8kg	0.086m ³	50pc/box, 40box/carton

检验报告 EN14683-2019

Test Report EN14683-2019



Test Report SL52025244768001TX **Date:** May 08, 2020 **Page 1 of 2**
 QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD
 NO.1, GUANGDONG ROAD, JIANGSHAN INTERNATIONAL INDUSTRIAL PARK, LAIXI, QINGDAO

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

Sample Description : (A) Disposable Medical Face Mask: PP Non-woven, Melt-blown fabric in blue
 Style No. : C007
 Composition : (A) PP Non-woven, Melt-blown fabric
 Sample Color : (A) BLUE
 Manufacturer : QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD
 Country of Destination : EUR
 Supplier : QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Apr 14, 2020
 Testing Period : Apr 14, 2020 - May 08, 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).

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) 8307 1443, or email: cn.doccheck@sgs.com
 上海 SGS 标准技术服务有限公司 200233 1 (86-21) 61432066 1 (86-21) 64967070 www.sgs.com.cn
 中国 · 上海 · 徐汇区宜山路649号4楼 邮编: 200233 1 (86-21) 61432066 1 (86-21) 64967070 www.sgs.com.cn

Member of the SGS Group (SGS SA)



Test Report SL52025244768001TX **Date:** May 08, 2020 **Page 2 of 2**

Test Result

Medical Face Masks-Requirements and Test Methods
 (EN 14683:2019)

Clause 5.2.2 Bacterial filtration efficiency (BFE)

(BFE), %	1#	2#	3#	4#	5#
	99.6	99.8	99.6	99.7	99.7

Remark: Performance Requirement: Type I >95%, Type II >98%, Type IIR >98%
 **: This test standard is not within the accredited scope in SGS Shanghai testing centre, it is carried out by external laboratory accredited by CMA (China Metrology Accreditation)

Clause 5.2.3 Breathability (Differential Pressure)
 (EN 14683 :2019 Annex C, Flow rate 8 l/min)

Differential pressure ΔP (Pa/cm ²)	1#	2#	3#	4#	5#
	34	36	36	34	35

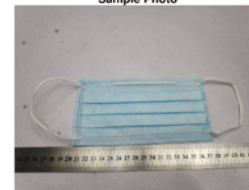
Remark: Performance Requirement: Type I <40 Pa/cm², Type II <40 Pa/cm², Type IIR <60 Pa/cm²

Clause 5.2.5 Microbial Cleanliness
 (EN 14683: 2019 Annex D)

CFU/g	1#	2#	3#	4#	5#
	25	24	22	30	34

Remark: Performance Requirement: Type I ≤30 CFU/g, Type II ≤30 CFU/g, Type IIR ≤30 CFU/g

Sample Photo



The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report



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 Attention: To check the authenticity of testing inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: cn.doccheck@sgs.com
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Member of the SGS Group (SGS SA)

检验报告 YY/T 0969-2013

Test Report YY/T 0969-2013



检验报告

TEST REPORT



(替代WT204025656报告)

第 1 页, 共 5 页

委托单位: 青岛海诺生物工程有限公司QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD.
委托单位地址: 青岛市莱西市姜山镇工业园广东路1号NO.1 GUANGDONG ROAD, JIANGSHAN INDUSTRIAL ZONE LAIXI CITY, QINGDAO, CHINA
样品名称: 见附页 Refer To Next Pages
型号/规格/等级: 非无菌 耳挂式平面型17.5cm*9.5cm
检验类别: 送样检验
检验地点: 龙华实验基地Longhua Experimental Base

深圳市计量质量检测研究院
(检验检测专用章)

批准人: 何行月

签发日期: 2020年04月30日

签名: 何行月

重要声明

Important statement

1. 本院是深圳市人民政府依法设置的产品质量监督检验机构, 系社会公益型非营利性技术机构, 为各级政府执法部门进行监督管理提供技术支持和接受社会各界的委托检验。
SMQ is a legal non-profit technical institute established by Shenzhen Municipal Government to undertake the quality supervision and inspection of products, and to provide technical support to relevant supervision and administration and also conduct commission test from the society.
2. 本院保证检验的科学性、公正性和准确性, 对检验的数据负责, 并对委托单位所提供的样品和技术资料保密。
SMQ is committed to assuring the scientificness, impartiality and accuracy of all tests carried out, responsibility for test data gained, and keeping confidential of all test samples and technical documents provided.
3. 抽样按照本院程序文件 CX11-01《抽样程序》和相应产品的检验细则的规定执行。
The sampling should be carried out according to the "sampling procedure" defined in the Procedure Document CX11-01 and relevant testing specifications.
4. 报告无主检、审核、批准人签字, 或删除, 或未盖本院“检验检测专用章”及骑缝章无效, 未经本院许可, 不得部分复印、挪用或篡改本证书/报告内容。
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5. 这样委托检验结果只对来样有效, 委托检验的样品信息及委托方信息均由委托方填写, 本院不对其真实性负责。
The test results presented in the report apply only to the tested sample. The product information and the applicant information are provided by the customer and SMQ assumes no responsibility for their validity and accuracy.
6. 未经检验机构同意, 样品委托人不得擅自使用检验结果进行不当宣传。
Any use of SMQ test result for advertisement of the tested material or product must be approved in writing by SMQ.
7. 无 CMA 标志的报告, 仅供使用方内部参考, 不具有对社会的证明作用, 含粤字编号的 CAL 标志仅适用于产品标准和判定标准。
The non-CMA report issued by SMQ is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose. CAL logo with symbol "Yue" is only relevant to product standards and reference of standards.
8. 对农产品监督检查检验结果有异议的, 可以自收到检验报告之日起五日内, 向组织实施农产品质量安全监督检查的农业行政主管部门或者其上级农业行政主管部门申请复检, 对食品监督检查报告有异议的, 可以自收到检验报告之日起七个工作日内向实施抽样检验的食品药品监督管理部门或者其上一级食品药品监督管理部门提出复检申请, 对其它检验报告有异议的, 应于报告发出之日起十五日内向本院提出。
Any objections to the testing results of supervision sampling of agricultural products should apply for retest within 5 days upon receiving the test report to the administrative department of agriculture who organizes and implements agricultural products' supervision sampling or its superior department. Any objections to the testing results of supervision sampling of food should apply for retest within 7 days upon receiving the test report to the administrative department of food and drug who organizes and implements supervision sampling for food or its superior department. Any objections to other inspection report issued by SMQ should be submitted to SMQ within 15 days after the issuance of the test report.
9. 电子版证书/报告更改后将不被追回, 委托方有义务将更改后的报告/证书提供给使用原报告/证书的相关方。
SMQ is not responsible for recalling the electronic version of the original report/certificate when any revision is made to them. The applicant assumes the responsibility of providing the revised version to any interested party who uses them.

投诉电话 Complaint hotline: 0755-86928949



检验报告

报告编号: WT204032177

第 2 页, 共 5 页

样品信息:

样品名称: 见附页 Refer To Next Pages
商标: HYNALT海氏海诺
型号/规格/等级: 非无菌 耳挂式平面型17.5cm*9.5cm
样品编/批号: 200330
生产日期: 2020-03
生产单位: 青岛海诺生物工程有限公司QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD.
生产单位地址: 青岛市莱西市姜山镇工业园广东路1号NO.1 GUANGDONG ROAD, JIANGSHAN INDUSTRIAL ZONE LAIXI CITY, QINGDAO, CHINA
样品数量: 70个 抽样基数: _____
抽样地点: _____
抽样人员: _____
检前样品描述: 正常, Normal.

客户信息:

委托单位: 青岛海诺生物工程有限公司QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD.
委托单位地址: 青岛市莱西市姜山镇工业园广东路1号NO.1 GUANGDONG ROAD, JIANGSHAN INDUSTRIAL ZONE LAIXI CITY, QINGDAO, CHINA
委托单位电话: 17561677800
邮政编码: _____
受检单位: _____

检验信息:

委托日期: 2020年04月20日 委托单号: 8249573
检验类别: 送样检验 获证方式: 送样
检验日期: 2020年04月20日 至 2020年04月29日
检验环境条件: (18~25)℃ (30~70) %RH
判定依据: YY/T 0969-2013
检测依据: YY/T 0969-2013等相关方法标准见附页and other method standards refer to next pages

检验结论:

检验结果见附页。
Test result refer to next page.

主检: 廖惠萍 廖惠萍 审核: 刘石磊 刘石磊

检验报告 YY/T 0969-2013

Test Report YY/T 0969-2013



检验报告

报告编号: WT204032177

第 3 页, 共 5 页

检验项目 Test Item	标准要求 Requirement	实测结果 Test Result	单项结论 Conclusion
1. 外观 Appearance (YY/T 0969-2013)	4.1条 4.1Requirement	(YY/T 0969-2013) 1#~3#符合Conformity	符合 Conformity
2. 结构与尺寸 Structure and size (YY/T 0969-2013)		(YY/T 0969-2013)	符合 Conformity
1). 结构Structure	4.2条 4.2Requirement	1#~3#符合Conformity	
2). 尺寸Size	4.2条 4.2Requirement	偏差Deviation rate (%) 1# 2# 3# 长度length: -0.6 -0.6 -0.6 宽度width: -1.1 -1.1 -1.1	
3. 鼻夹Nose clip (YY/T 0969-2013)		(YY/T 0969-2013)	符合 Conformity
	4.3.1条 4.3.1Requirement 4.3.2条 4.3.2Requirement	1#~3#符合 Conformity 长度length (cm): 1# 2# 3# 10.2 10.3 10.2	
4. 口罩带Mask string (YY/T 0969-2013)		(YY/T 0969-2013)	符合 Conformity
	4.4.1条 4.4.1Requirement 4.4.2条 4.4.2Requirement	符合Conformity 1#~3#符合Conformity (定负荷Fixed load: 10N, 持续continuous: 5s)	



检验报告

报告编号: WT204032177

第 4 页, 共 5 页

检验项目 Test Item	标准要求 Requirement	实测结果 Test Result	单项结论 Conclusion
5. 细菌过滤效率 (%) Bacterial filtration efficiency (BFE) (YY/T 0969-2013)	≥95	(YY 0469-2011) 1# 2# 3# 100 100 100	符合 Conformity
6. 通气阻力 (Pa/cm ²) Ventilation resistance (YY/T 0969-2013)	≤49	(YY/T 0969-2013) 1# 2# 3# 39.3 42.7 39.1 (气体流量Gas flow: 8L/min)	符合 Conformity
7. 微生物 Microorganisms (YY/T 0969-2013)		(GB 15979-2002)	符合 Conformity
细菌菌落总数 (CFU/g) Total amount of bacterial colony	≤100	<4	
大肠菌群 Coliform group	不得检出No detected	未检出Not detected	
绿脓杆菌 Pseudomonas aeruginosa	不得检出No detected	未检出Not detected	
金黄色葡萄球菌 Staphylococcus aureus	不得检出No detected	未检出Not detected	
溶血性链球菌 Streptococcus hemolyticus	不得检出No detected	未检出Not detected	
真菌Fungal colony	不得检出No detected	未检出Not detected	



检验报告

报告编号: WT204032177

第 5 页, 共 5 页

- 附注:
1. 此报告以中文为准, 英文仅作参考. The Chinese version of this test report is the standard one, the English version is only for reference.
2. 样品名称Sample description: 一次性使用医用口罩(非外科用)Disposable Medical Face Mask.
3. 样品图片Photo(s) of the sample(s):



以下空白 END OF REPORT



相关证书 EU Declaration of Conformity Certification EU Declaration of Conformity



一次性使用外科口罩

TYPE IIR 非无菌

Disposable Medical Face Mask

TYPE IIR Non-Sterile



Disposable Face Mask

non-woven + melt-blown + non-woven

- *Personal Protective*
- *Medical EN14683 type IIR*



Model:

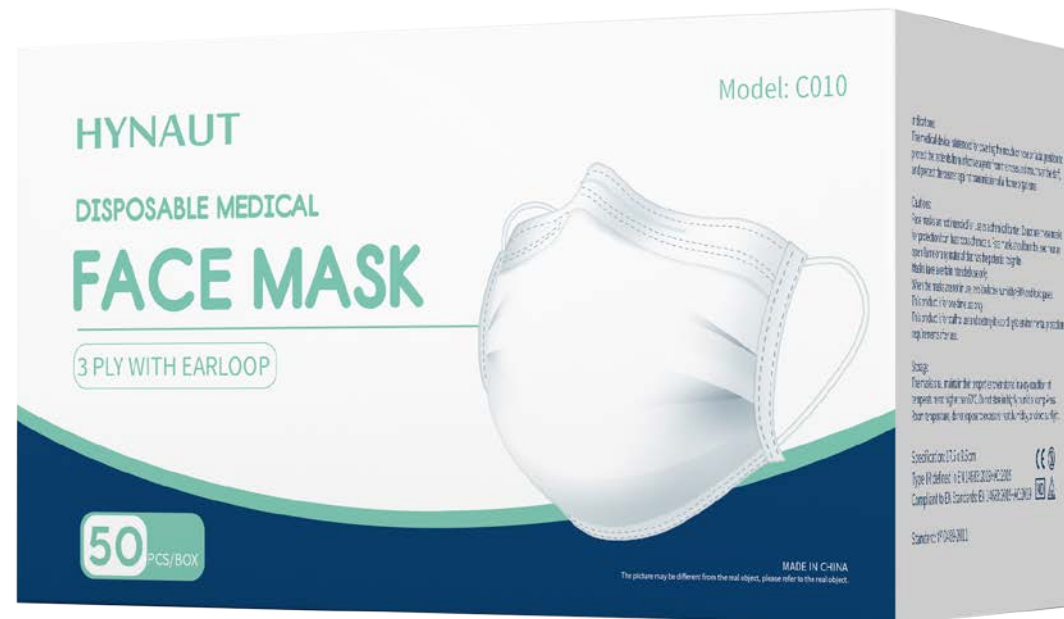
C010

Size:

17.5*9.5cm

包装效果图

Packing effect drawing



50pcs/box

箱规&件重尺

Packing Size

产品 (Product)	箱子尺寸 (Carton size)	毛重 (G.W.)	净重 (N.W.)	体积 (CBM)	包装规格 (Packing Size)
C010 Disposable Medical Face Mask 3 PLY	53*39*43cm	10kg	8.8kg	0.086m ³	50pc/box, 40box/carton

检验报告 EN 14683:2019

Test Report EN 14683:2019



中国认可
国际互认
检测
TESTING
CNAS L0599

Test Report SL52025256537201TX Date: May 21, 2020 Page 1 of 3

QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD
JIANGSHAN INDUSTRIAL PARK, LAIXI, QINGDAO, CHINA

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

Sample Description : (A) Disposable Medical Face Mask
Style No. : C010
Composition : (A) PP Non-woven, Melt-blown fabric
Sample Color : (A) Blue
Manufacturer : QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD
Country of Destination : EUR
Supplier : QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD

Proposed Care Instruction : -

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : May 05, 2020
Testing Period : May 09, 2020 - May 21, 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).

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

Sara Guo

Sara Guo (Account Executive)



Test Report SL52025256537201TX Date: May 21, 2020 Page 2 of 3

Test Result

Medical Face Masks-Requirements and Test Methods (EN 14683:2019)

Clause 5.2.2 Bacterial filtration efficiency (BFE) (EN 14683 :2019 Annex B)

(BFE), %	1#	2#	3#	4#	5#
	>99.9	99.9	>99.9	99.9	99.9

Remark: Performance Requirement: Type I $\geq 95\%$, Type II $\geq 98\%$, Type IIR $\geq 98\%$
* This test standard is not within the accredited scope in SGS Shanghai testing centre, it is carried out by external laboratory accredited by CMA (China Metrology Accreditation).

Clause 5.2.3 Breathability (Differential Pressure) (EN 14683 :2019 Annex C, Flow rate 8 l/min)

	1#	2#	3#	4#	5#
Differential pressure ΔP (Pa/cm ²)	34	34	35	36	35

Remark: Performance Requirement: Type I <40 Pa/cm², Type II <40 Pa/cm², Type IIR <60 Pa/cm²

Clause 5.2.4 Splash Resistance (ISO 22609 :2004, Pressure 16.0 kPa)

Penetration on inside surface							
1#	2#	3#	4#	5#	6#	7#	8#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
9#	10#	11#	12#	13#	14#	15#	16#
Pass	Pass	Pass	Fail	Pass	Pass	Pass	Pass
17#	18#	19#	20#	21#	22#	23#	24#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
25#	26#	27#	28#	29#	30#	31#	32#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Number of Pass:	31						
Overall result:	Acceptable						

Remark:
1) Performance Requirement Type I: N/A, Type II: N/A, Type IIR: ≥ 16.0 kPa
2) Distance of the medical face mask target area surface to the tip of cannula is 300 \pm 10mm.
3) Condition and Test temperature (21 \pm 5) °C, relative humidity (85 \pm 10)%
4) An acceptable quality limit of 4.0% is met for a single sampling plan when 29 or more of the 32 tested specimens show pass results



Test Report SL52025256537201TX Date: May 21, 2020 Page 3 of 3

Clause 5.2.5 Microbial Cleanliness (EN 14683: 2019 Annex D)

	1#	2#	3#	4#	5#
CFU/g	<1	<1	<1	<1	<1

Remark: Performance Requirement: Type I ≤ 30 CFU/g, Type II ≤ 30 CFU/g, Type IIR ≤ 30 CFU/g

Sample Photo



The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report

相关证书 EU Declaration of Conformity Certification EU Declaration of Conformity

EU Declaration of Conformity

Manufacturer: QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD
NO.1 GUANGDONG ROAD,JIANGSHAN INDUSTRIAL
ZONE LAIXI CITY, QINGDAO, CHINA
Tel: +86-532-86463333/86464444

SRN: /

European Representative: CMC Medical Devices & Drugs S.L.
Horacio Lengó Nº 18, CP 29006, Málaga, Spain

Product Name: Disposable Medical Face Mask
Product Type: EN14683:2019 TYPE IIR
Product Code: C010
Specification: 17.5cmx9.5cm
GMDN Code: 12-458

Classification (MDD, Annex IX): Class I, Rule 1.
Conformity Assessment Route: Annex IX of MDD 93/42/EEC.

We herewith declare that the above mentioned products meet the transposition into national law, the provisions of the following EU Regulation and Standards. All supporting documentations are retained under the premises of the manufacturer.

The manufacturer is exclusively responsible for the declaration of conformity.


General applicable regulations, directives:
Medical Device Directive: COUNCIL DIRECTIVE 93/42/EEC of June 1993 concerning medical devices (MDD 93/42/EEC). Amended by DIRECTIVE 2007/47/EC of 5 September 2007.

Applied standards, common specification, guidance:
EN 14683:2019+AC:2019, EN ISO 15223-1:2016, EN 1041:2008+A1:2013, EN ISO 14971:2012, EN 62366-1:2015+AC:2015, ISO 10993-1:2018, ISO 10993-5:2009, ISO 10993-10:2010, MDCG 2019-15.

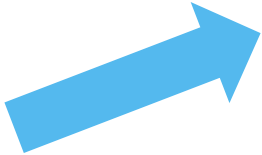
Signature: *Gong Ximing*

Name: General Manager
Position: Qingdao
Place/date: Apr 2020

File No.: HN/CE01-01, ver.A10

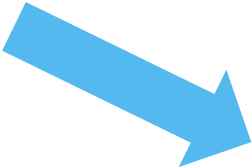
3. KN95防护口罩
KN95 Protective Face Mask



KN95/FFP2防护口罩
KN95/FFP2 Protective Face Mask
C004



KN95防护口罩
KN95 Protective Face Mask
C005



KN95防护口罩 (儿童)
KN95 Protective Face Mask (Kid)
C012

KN95防护口罩/FFP2防护口罩

KN95 Protective Face Mask/FFP2 Protective Face Mask



KN95 Protective Face Mask (Folded)



- 4-ply design
- non-woven + melt-blown x2 + non-woven
- Four layers of protection, multiple filtration, filtration efficiency $\geq 95\%$.
Three-dimensional design, very comfortable to wear.

Model:

C004

Size:

14.5*13cm

包装效果图 KN95

Packing Effect Drawing KN95



50pcs/box



20pcs/box

包装效果图 FFP2

Packing Effect Drawing FFP2

16.5*8*19.5cm



5pcs/bag



20pcs/box

箱规&件重尺 KN95&FFP2

Packing Size KN95&FFP2

产品 (Product)	盒子尺寸 (Box size)	包装规格 (Packing size)	箱子尺寸 (Carton size)	CBM
C004 KN95 50pcs/box	14*13*16cm	50pcs/box*32boxes=1600pcs	58.0*54.0*34.3cm	0.107
C004 KN95 20pcs/box	17.5*8*23.5cm	20pcs/box*30boxes=600pcs	58.0*54.0*34.3cm	0.113
C004 KN95 1pc/bag	/	200pcs/ctn	34*20.5*22.5cm	0.016

检验报告 KN95 GB2626-2006

Test Report KN95 GB2626-2006



Test Report

(2020) WSZ FHL NO.F0337

Product Name KN95 Protective Face Mask

Client Qingdao Hainuo Biological Engineering Co.,Ltd

Manufacturer Qingdao Hainuo Biological Engineering Co.,Ltd


Test Type Entrusted inspection

Jiangsu Guojian Testing Technology Co., Ltd.



Test Report

[2020] WSZ FHL NO.F0337 Page 1 of 4

Product name	KN95 Protective Face Mask	Specification	Disposable Folded L
		Brand	海氏海诺
Client/Add/Tel	Qingdao Hainuo Biological Engineering Co.,Ltd/No.1 Guangdong Road,Jangshan Industrial Zone Laixi City,Qingdao City,Shandong Province,China/+86 0532-86463333		
Manufacturer/ Add/Tel	Qingdao Hainuo Biological Engineering Co.,Ltd/No.1 Guangdong Road,Jangshan Industrial Zone Laixi City,Qingdao City,Shandong Province,China/+8617561677800		
Sample grade	KN95	Sample number	GW F0337-2020
Sample quantity	50 pcs	Receiving date of sample	28/04/2020
Test type	Entrusted inspection	Article number/Batch number:Style number	200408
Test date	12/05/2020-15/05/2020	Testing sites	Testing room
Sample state	Meeting the requirements of testing	Sample description	—
Test standard(s)	GB 2626-2006 Respiratory protective equipment -Non-powered air-purifying particle respirator		
Test items	General requirements, appearance requirements, respiratory resistance, head harness, flammability, dead space, vision, filter efficiency, total inward leakage		
Test conclusion	The sample upon testing, the test items meet the requirements of the GB 2626-2006 standard. The detail of test results see on Pages 2-4.		
Note	For the entrusted sample test, the technical responsibilities are undertaken for the test results of the supplied samples only.		

Approver: 苏福祥 Reviewer: 万佳 Chief Tester: 杨莹

Test Report

[2020] WSZ FHL NO.F0337 Page 2 of 4

S.No.	Test item	Unit	Technical requirements	Test result	Single item decision	
1	General requirements	—	Materials shall have sufficient strength and shall not break or deform during the service life. The design shall be less prone to structural damage; the design, composition and installation of components shall not pose any danger to the user; headband design shall be adjustable, easy to wear and removal, able to hold the mask firmly on the face and not show significant compression or tenderness when worn; The mask shall have a small dead space and a larger field of view as much as possible; disposable mask structure shall be able to ensure close contact with the face, and shall not be deformed during the service life.	Meeting the requirements	Qualified	
2	Appearance requirements	—	The surface of the sample shall not be damaged, deformed and have obvious other defects; components and structures shall be able to withstand normal conditions of use and the temperature, humidity and mechanical impact possibly encountered; headband shall be adjustable, and the replaceable mask headband design shall be replaceable; after the pretreatments of temperature, humidity and mechanical strength, the parts shall not fall off, be damaged and deformed.	Meeting the requirements	Qualified	
3	Respiratory resistance	Pa	Total inspiratory resistance ≤ 350	Untreated	120.5	Qualified
					118.7	
		Pre-treated		116.4		
				119.3		
Pa	Total expiratory resistance ≤ 250	Untreated	90.4	Qualified		
			89.1			
Pre-treated		86.5				
		89.2				

检验报告 KN95 GB2626-2006

Test Report KN95 GB2626-2006

Test Report

[2020] WSZ FHL NO.F0337 Page 3 of 4

S.No	Test item	Unit	Technical requirements	Test result	Single item decision	
4	Head harness	—	Not appearing slippage or breakage to withstand 10N tensile force lasting 10s .	Untreated	No slippage or breakage occurred	Qualified
				Pretreated	No slippage or breakage occurred	
5	Flammability	—	Parts exposed to the flame shall not burn after having been removed from the flame, if burned, the afterflame time shall not exceed 5s.	Untreated	The mask burned. The afterflame time is 0.1s.	Qualified
				Pretreated	The mask burned. The afterflame time is 0.1s.	
					The mask burned. The afterflame time is 0.1s.	
				The mask burned. The afterflame time is 0.1s.		
6	Dead space	—	≤1%	0.09%	Qualified	
7	Vision	—	Vision below ≥60°	83.1°	Qualified	
8	Filter efficiency	—	≥95.0%	Untreated	97.3%	Qualified
					97.6%	
					97.2%	
					97.4%	
					97.5%	
					97.4%	
					97.3%	
				Pretreated	97.3%	
					97.5%	
					97.4%	
					97.5%	
					97.4%	
					97.3%	
					97.4%	

Test Report

[2020] WSZ FHL NO.F0337 Page 4 of 4

S.No	Test item	Unit	Technical requirements	Test result							Single item decision	
				Subjects	E1 (%)	E2 (%)	E3 (%)	E4 (%)	E5 (%)	TIL (%)		
9	Total inward leakage	—	TIL <11% for at least 46 exercises in 50 subjects, and TIL <8% for at least 8 of 10 subjects.	Untreated	1 [#]	5.4	6.3	6.4	6.4	5.9	6.1	Qualified
					2 [#]	5.3	6.2	6.3	6.3	5.8	6.0	
					3 [#]	6.0	6.8	7.1	6.9	6.3	6.6	
					4 [#]	6.1	6.6	7.0	6.7	6.2	6.5	
					5 [#]	5.9	6.7	6.6	6.8	6.1	6.4	
				Pretreated	6 [#]	5.5	6.1	6.3	6.0	5.5	5.9	
					7 [#]	6.0	6.4	6.4	6.5	6.0	6.3	
					8 [#]	5.0	5.7	5.7	5.9	5.2	5.5	
					9 [#]	5.5	6.3	6.3	6.2	5.6	6.0	
					10 [#]	4.9	5.9	5.9	6.0	5.3	5.6	
Note												

The end

检验报告 FFP2 EN149

Test Report FFP2 EN149

Report No.: [2020] WSZ FHL NO.W0437

Report No.: [2020] WSZ FHL NO.W0437

Report No.: [2020] WSZ FHL NO.W0437

Report No.: [2020] WSZ FHL NO.W0437

S.No (CLNo)	Test item	Unit	Technical requirements	Test result	Single item decision
1 (7.3)	Visual inspection	Marking/ information	Marking and the information supplied by the manufacturer, requirements refer to CL9 and CL10	The clause were not required	NRq
2 (7.4)	Packaging	Visual inspection	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.	Particle filtering half masks packaged and protected against mechanical damage and contamination.	Pass
3 (7.5)	Material	Visual inspection	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.	Materials were suitable withstand handling and wear.	Pass
			After undergoing S.W., none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.	Sample 1: neither facepiece nor straps have mechanical failure Sample 2: neither facepiece nor straps have mechanical failure Sample 3: neither facepiece nor straps have mechanical failure	
			After undergoing S.W. and T.C., none of the particle filtering half masks shall not collapse.	Sample 4: no collapse Sample 5: no collapse Sample 6: no collapse	
			Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Not constitute a hazard or nuisance for the wearer	
4 (7.6)	Cleaning and disinfecting		Particle filtering half mask designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer. Testing shall be done in accordance with 8.4 and 8.5.	<input type="checkbox"/> Fulfill the requirements after testing, or <input checked="" type="checkbox"/> The Particle filtering half mask is NOT re-usable according to information supplied by manufacturer	N/A

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Test Report Form No. EN149_C
Dated 2020-05

S.No (CLNo)	Test item	Unit	Technical requirements	Test result	Single item decision
5 (7.7)	Practical performance	Head harness comfort	Head harness should be comfort.	Sample 1: has the feeling of comfortable wearing Sample 2: has the feeling of comfortable wearing	Pass
		Security of fastenings	Fastenings are safe and reliable	Sample 1: All fastenings are firm Sample 2: All fastenings are firm	
		Field of vision	Field of vision is acceptable	Sample 1: Having a wider visual field Sample 2: Having a wider visual field	
6 (7.8)	Finish of parts	Visual inspection	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.	Parts of the device have no sharp edges and burrs	Pass
7 (7.9.2)	Leakage - Penetration of filter material	Paraffin oil	≤6%	A.R. ¹⁾ 0.3% 0.4% 0.4%	Pass
				S.W. ²⁾ 0.4% 0.3% 0.3%	
				M.S.+ T.C. ²⁾ 0.5% 0.7% 0.4%	
				A.R. ¹⁾ 1.7% 1.6% 1.4%	
				S.W. ²⁾ 1.6% 1.6% 1.5%	
				M.S.+ T.C. ²⁾ 5.7% 5.8% 5.6%	
¹⁾ average penetration over a time of 30s, beginning 3 min after the start of the test reported ²⁾ max. penetration during exposure test reported. Note: The penetration of the filter of the particle filtering half mask shall meet the requirements below: Maximum penetration of sodium chloride aerosol test 95 l/min max. FFP1: 20%, FFP2: 6%, FFP3: 1% Maximum penetration of paraffin oil aerosol test 95 l/min max. FFP1: 20%, FFP2: 6%, FFP3: 1%					

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Test Report Form No. EN149_C
Dated 2020-05

S.No (CLNo)	Test item	Unit	Technical requirements	Test result	Single item decision
8 (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.	A.R. 5 pcs all don't cause irritation T.C. 5 pcs all don't cause irritation	Pass
9 (7.11)	Flammability		When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5s after removal from the flame.	A.R. The Sample is burning. Burning time: 0.1s The Sample is burning. Burning time: 0.1s	Pass
				T.C. The Sample is burning. Burning time: 0.1s The Sample is burning. Burning time: 0.1s	
10 (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). Remark: 3 half masks (S1, S2 and S3) A.R. tested.	Sample 1 0.6237%	Pass
				Sample 2 0.6331%	
				Sample 3 0.6320%	
				average 0.63%	
11 (7.13)	Head harness		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	A.R. All of 5 pieces particle filtering half mask meet the requirements	Pass
				T.C. All of 5 pieces particle filtering half mask meet the requirements	
12 (7.14)	Field of vision		The field of vision is acceptable if determined so in practical performance tests.	The two samples both have a wider visual field	Pass

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S.No (CLNo)	Test item	Unit	Technical requirements	Test result	Single item decision
13 (7.15)	Exhalation valve(s)	Visual inspection	A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	No exhalation valve(s)	N/A
			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.	No exhalation valve(s)	
			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.	No exhalation valve(s)	
			Strength of attachment of exhalation valve housing	When the exhalation valve housing is attached to the facemask, it shall withstand axially a tensile force of 10 N applied for 10 s.	No exhalation valve(s)
14 (7.17)	Clogging - Breathing resistance & Penetration of filter material		Optional for single shift use devices, mandatory for re-usable devices. Tested by Cl. 7.17.1/2/3.	<input type="checkbox"/> Tests results refer to Table C&D, or <input checked="" type="checkbox"/> Tests not requested for single shift use face mask	N/A
15 (7.18)	Demountable parts		All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.	No demountable parts	N/A

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Dated 2020-05

检验报告 FFP2 EN149

Test Report FFP2 EN149

Report No.: [2020] WSZ FHL NO.W0437

Report No.: [2020] WSZ FHL NO.W0437

Report No.: [2020] WSZ FHL NO.W0437

Report No.: [2020] WSZ FHL NO.W0437

Table A- Leakage—Total Inward Leakage

S.No. (CLNo)	Test item	Unit	Technical requirements ¹⁾	Test result							Single item decision
				Exercises	E1 (%)	E2 (%)	E3 (%)	E4 (%)	E5 (%)	TIL (%)	
16 (7.9.1)	Leakage—Total inward leakage	—	At least 46 out of the 50 individual exercise results shall be not greater than 11% . And in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than 8% .	A.R.	6.2	8.9	8.0	8.0	6.5	7.5	Pass
					6.1	7.8	8.0	8.8	6.1	7.4	
					5.7	8.3	8.4	7.0	5.7	7.0	
					5.8	8.1	7.5	7.6	5.4	6.9	
					5.7	7.4	7.7	7.4	5.6	6.8	
				T.C.	6.0	8.8	8.2	9.0	6.3	7.7	
					6.2	8.1	8.3	8.8	6.7	7.6	
					5.7	7.1	8.4	8.1	5.9	7.0	
					5.6	7.7	8.0	7.7	5.2	6.8	
					5.5	7.5	7.6	7.7	5.7	6.7	

Note 1: 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 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.

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Table B- Breathing Resistance

S.No. (CLNo)	Test item	Unit	Technical requirements ¹⁾	Test result						Single item decision
				Exercises	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side	
17 (7.16)	Breathing resistance	Inhalation 30 L/min	≤0.7	A.R.	0.4	0.4	0.4	0.4	0.4	Pass
					0.3	0.4	0.4	0.4	0.4	
					0.4	0.4	0.4	0.4	0.4	
				S.W.	0.4	0.4	0.3	0.4	0.4	
					0.4	0.4	0.3	0.4	0.4	
					0.4	0.4	0.3	0.4	0.4	
	T.C.	0.4	0.4	0.4	0.4	0.4				
		0.3	0.4	0.3	0.4	0.4				
		A.R.	1.4	1.5	1.5	1.4	1.4	Pass		
			1.5	1.5	1.4	1.4	1.5			
			1.5	1.5	1.5	1.4	1.5			
		S.W.	1.5	1.5	1.4	1.5	1.5			
1.4	1.4		1.4	1.4	1.4					
1.5	1.5		1.5	1.5	1.4					
T.C.	1.4	1.4	1.4	1.4	1.5					
	1.5	1.4	1.4	1.4	1.5					
	A.R.	1.9	1.9	1.8	1.9	1.9	Pass			
		1.9	1.9	1.9	1.9	1.8				
		1.8	1.9	1.9	1.8	1.8				
	S.W.	1.9	1.9	1.9	2.0	1.9				
1.9		1.9	2.0	1.9	1.9					
1.9		1.9	2.0	2.0	1.9					
T.C.	1.9	1.9	1.9	1.9	1.9					
	2.0	2.0	1.9	1.9	1.9					
	1.9	1.9	2.0	2.0	2.0					

Note 1: Limitation may need be changed according to classification, refer to Table 2—Breathing resistance of EN 149:2001 +A1:2009 for the Technical requirements.

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Table C- Clogging Test—Breathing resistance

S.No. (CLNo)	Test item ¹⁾²⁾	Unit	Technical requirements ¹⁾³⁾ (mbar)	Test result						Single item decision		
				Exercises	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side			
18 (7.17)	Clogging test—Breathing resistance	Inhalation 95 L/min	mbar	—	A.R.						N/A	
					T.C.							
		Exhalation 95 L/min	mbar	—	A.R.							N/A
					T.C.							

Note 1: Valved particle filtering half masks
After clogging the inhalation resistances shall not exceed FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar at 95 l/min continuous flow. The exhalation resistance shall not exceed 3 mbar at 160 l/min continuous flow.
Note 2: 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 95 l/min continuous flow.

Table D- Clogging Test—Penetration of filter material

S.No. (CLNo)	Test item	Unit	Technical requirements	Test result	Single item decision
19 (7.17)	Clogging test—Penetration of filter material	Paraffin oil	—	A.R.	N/A
				T.C.	
				T.C.	

Note: Maximum penetration of test aerosol test 95 l/min max. FFP1: 20%, FFP2: 6%, FFP3: 1%

Abbreviations :

A.R. As received	M.S. Mechanical strength	S.W. Simulated wearing treatment
T.C. Temperature conditioned	F.C. Flow conditioned	C.D. Cleaning and Disinfecting

Test item	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%

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Annex A- Sample Photo



The end

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Dated 2020-05

KN95防护口罩

KN95 Protective Face Mask



KN95 Protective Face Mask (Willow Leaf)



- 4-ply design
- non-woven + melt-blown x2 + non-woven
- Four layers of protection, multiple filtration, filtration efficiency $\geq 95\%$.
Willow-leaf cut, fits the face more comfortably.

Model: C005

Size: 20*8.5cm

包装效果图 Packing Effect Drawing



20pcs/box



50pcs/box

箱规&件重尺

Packing Size

产品 (Product)	盒子尺寸 (Box size)	包装规格 (Packing size)	箱子尺寸 (Carton size)	CBM
C004 KN95 50pcs/box	14*13*16cm	50pcs/box*32boxes=1600pcs	58.0*54.0*34.3cm	0.107
C004 KN95 20pcs/box	17.5*8*23.5cm	20pcs/box*30boxes=600pcs	58.0*54.0*34.3cm	0.113
C004 KN95 1pc	/	200pcs/ctn	34*20.5*22.5cm	0.016

检验报告 GB2626-2006

Test Report GB2626-2006



检验报告

TEST REPORT



报告编号: WT204029177

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委托单位: 青岛海诺生物工程有限公司 QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD.
委托单位地址: 见附页 Refer To Next Pages
样品名称: KN95防护口罩: KN95 Protective Face Mask
型号/规格/等级: C005
检验类别: 送样检验
检验地点: 龙华实验基地 Longhua Experimental Base

深圳市计量质量检测研究院
(检验检测专用章)

签发日期: 2020年05月25日

批准人: 邓海英

签名: 邓海英

重要声明

Important statement

1. 本院是深圳市人民政府依法设置的产品质量监督检验机构, 系社会公益型非营利性技术机构, 为各级政府执法部门进行监督管理提供技术支持和接受社会各界的委托检验。
SMO is a legal non-profit technical institute established by Shenzhen Municipal Government to undertake the quality supervision and inspection of products, and to provide technical support to relevant supervision and administration and also conduct commission test from the society.
2. 本院保证检验的科学性、公正性和准确性, 对检验的数据负责, 并对委托单位所提供的样品和技术资料保密。
SMO is committed to assuring the scientificness, impartiality and accuracy of all tests carried out, responsibility for test data gained, and keeping confidential of all test samples and technical documents provided.
3. 抽样按照本院程序文件 CX11-01《抽样程序》和相应产品的检验细则的规定执行。
The sampling should be carried out according to the "sampling procedure" defined in the Procedure Document CX11-01 and relevant testing specifications.
4. 报告无主检、审核、批准人签字, 或涂改, 或未盖本院“检验检测专用章”及骑缝章无效。未经本院许可, 不得部分复制、挪用或篡改本证书/报告内容。
Any report having not been signed by relevant responsible engineer, reviewer or authorized approver, or having been altered without authorization, or having not been stamped by both the "Dedicated Testing/Inspection Stamp" and the sealing stamp is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report/certificate is not permitted without the written authorization of SMO.
5. 送样委托检验结果仅对来样有效; 委托检验的样品信息及委托方信息均由委托方填写, 本院不对其真实性及准确性负责。
The test results presented in the report apply only to the tested sample. The product information and the applicant information are provided by the customer and SMO assumes no responsibility for their validity and accuracy.
6. 未经检验机构同意, 样品委托人不得擅自使用检验结果进行不当宣传。
Any use of SMO test result for advertisement of the tested material or product must be approved in writing by SMO.
7. 无 CMA 标志的报告, 仅供使用方内部参考, 不具有对社会的证明作用。含粤字编号的 CAL 标志仅适用于产品标准和判定标准。
The non-CMA report issued by SMO is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose. CAL logo with symbol "Yue" is only relevant to product standards and reference of standards.
8. 对农产品监督检查检验结果有异议的, 可以自收到检验报告之日起五日内, 向组织实施农产品质量安全监督检查的农业行政主管部门或者其上级农业行政主管部门申请复检。对食品监督检查报告有异议的, 可以自收到检验报告之日起七个工作日内向实施抽样检验的食品药品监督管理部门或者其上一级食品药品监督管理部门提出复检申请。对其它检验报告有异议的, 应于报告发出之日起十五日内向本院提出。
Any objections to the testing results of supervision sampling of agricultural products should apply for retest within 5 days upon receiving the test report to the administrative department of agriculture who organizes and implements agricultural products' supervision sampling or its superior department. Any objections to the testing results of supervision sampling of food should apply for retest within 7 days upon receiving the test report to the administrative department of food and drug who organizes and implements supervision sampling for food or its superior department. Any objections to other inspection report issued by SMO should be submitted to SMO within 15 days after the issuance of the test report.
9. 电子版证书/报告更改后将不被追回, 委托方有义务将更改后的报告/证书提供给使用原报告/证书的相关方。
SMO is not responsible for recalling the electronic version of the original report/certificate when any revision is made to them. The applicant assumes the responsibility of providing the revised version to any interested party who uses them.

投诉电话 Complaint hotline: 0755-86928949



检验报告

报告编号: WT204029177

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样品信息:

样品名称: KN95防护口罩: KN95 Protective Face Mask
商标: HYNAUT 海氏海诺
型号/规格/等级: C005
样品编/批号: 200405
生产日期: 2020-04-05
生产单位: 青岛海诺生物工程有限公司 QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD.
生产单位地址: 见附页 Refer To Next Pages
样品数量: 45只 抽样基数: _____
抽样地点: _____
抽样人员: _____
检测前样品描述: 正常. Normal.

客户信息:

委托单位: 青岛海诺生物工程有限公司 QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD.
委托单位地址: 见附页 Refer To Next Pages
委托单位电话: 17561677800
邮政编码: _____
受检单位: _____

检验信息:

委托日期: 2020年04月24日 委托单号: 8249747
检验类别: 送样检验 获样方式: 送样
检验日期: 2020年04月24日 至 2020年05月25日
检验环境条件: (18-25) °C (30-70) %RH
判定依据: GB 2626-2006
检测依据: GB 2626-2006

检验结论:

检验结果见附页。
Test result refer to next pages.

主检: 林月明 林月明 审核: 王燕归 王燕归

检验报告 GB2626-2006

Test Report GB2626-2006

检验报告

报告编号: WT204029177

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检验项目 Test Item	标准要求 Requirement	实测结果 Test Result	单项结论 Conclusion
1. 过滤效率(%) Filtration efficiency (GB 2626-2006)	用氯化钠颗粒物检测: NaCl Non-oil aerosols KN95 ≥ 95.0	(GB 2626-2006) 未预处理样品Unpretreated sample: 1#: 98.34 2#: 98.30 3#: 98.19 4#: 98.33 5#: 98.38 6#: 98.17 7#: 98.26 8#: 98.11 9#: 98.26 10#: 98.27 KN类 KN-Series 温度Temperature: 24.7℃ 相对湿度Relative humidity: 34.7% 颗粒物Aerosol chamber: NaCl 颗粒物浓度Concentration of aerosol chamber: 15mg/m ³ (检测流量Flow meter rate: 85L/min)	符合 Conformity
2. 呼吸阻力(Pa) Resistance of inhalation and exhalation (GB 2626-2006)	总吸气阻力Total Inhalation Resistance ≤350 总呼气阻力Total exhalation Resistance ≤250	(GB 2626-2006) 吸气阻力Inhalation resistance: 未预处理样品Unpretreated sample: 1# 2# 48.7 53.0 呼气阻力Exhalation resistance: 未预处理样品Unpretreated sample: 1# 2# 64.3 65.1 (通气量: 85L/min) (Flow: 85L/min)	符合 Conformity



检验报告

报告编号: WT204029177

第 4 页, 共 5 页

检验项目 Test Item	标准要求 Requirement	实测结果 Test Result	单项结论 Conclusion
3. 头带Head harness (GB 2626-2006)	随弃式面罩Disposable facepiece: 10N, 持续10s 10N, continuous 10s 不应出现滑脱或断裂 No slippage or breakage	(GB 2626-2006) 未预处理样品Unpretreated sample: 1#~2#: 符合Pass	符合 Conformity
4. 可燃性 Flammability (GB 2626-2006) 续燃时间(s) Afterflame time	≤5	随弃式面罩Disposable facepiece: 未预处理样品Unpretreated sample: 1# 2# 0.0 0.0 头模鼻尖位移速度: 60mm/s Displacement speed of Head mold nose tip: 60mm/s 距离燃烧器顶端20mm处的火焰温度: 817℃ Flame temperature at 20mm from the top of the burner: 817℃	符合 Conformity



附注Note:

1. 此报告以中文为准, 英文仅作参考。The Chinese version of this test report is the standard one, the English version is only for reference.
2. 生产单位地址、委托单位地址Manufacturer Address, Applicant Address:
青岛市莱西市姜山镇工业园广东路1号
NO.1 GUANGDONG ROAD, JIANGSHAN INDUSTRIAL ZONE LAIXI CITY, QINGDAO, CHINA

检验报告

报告编号: WT204029177

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以下空白 END OF REPORT



KN95防护口罩（儿童）

KN95 Protective Face Mask (For Kids)



KN95 Protective Face Mask (For kids)



- 4-ply design
- non-woven + melt-blown x2 + non-woven
- Four layers of protection, multiple filtration, filtration efficiency $\geq 95\%$.

Model: C012

Size: 12*10.5cm

包装效果图

Packing Effect Drawing



1pc/pack



200pcs/carton

箱规&件重尺

Packing Size

产品 (Product)	箱子尺寸 (Carton size)	毛重 (G.W.)	净重 (N.W.)	体积 (CBM)	包装规格 (Packing Size)
C012 KN95 Protective Face Mask Kid	32.5*19*18.5cm	1.6kg	1.35kg	0.012m ³	200pcs/carton

检验报告 GB2626-2006

Test Report GB2626-2006



检验报告

TEST REPORT



报告编号: WT204027715

第 1 页, 共 6 页

委托单位: 青岛海诺生物工程有限公司QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD.
委托单位地址: 青岛市莱西市姜山镇工业园广东路1号NO.1 GUANGDONG ROAD, JIANGSHAN INDUSTRIAL ZONE LAIXI CITY, QINGDAO, CHINA
样品名称: KN95防护口罩 KN95 Protective Face Mask
型号/规格/等级: C012 / Size S
检验类别: 送样检验
检验地点: 龙华实验基地Longhua Experimental Base

深圳市计量质量检测研究院
(检验检测专用章)

批准人: 邓海英

签发日期: 2020年05月15日

签名: 邓海英

重要声明

Important statement

1. 本院是深圳市人民政府依法设置的产品质量监督检验机构, 系社会公益型非营利性技术机构, 为各级政府执法部门进行监督管理提供技术支持并接受社会各界的委托检验。
SMQ is a legal non-profit technical institute established by Shenzhen Municipal Government to undertake the quality supervision and inspection of products, and to provide technical support to relevant supervision and administration and also conduct commission test from the society.
2. 本院保证检验的科学性、公正性和准确性, 对检验的数据负责, 并对委托单位所提供的样品和技术资料保密。
SMQ is committed to assuring the scientificity, impartiality and accuracy of all tests carried out, responsibility for test data gained, and keeping confidential of all test samples and technical documents provided.
3. 抽样按照本院程序文件 CX11-01《抽样程序》和相应产品的检验细则的规定执行。
The sampling should be carried out according to the "sampling procedure" defined in the Procedure Document CX11-01 and relevant testing specifications.
4. 报告无主检、审核、批准人签字, 或涂改, 或未盖本院“检验检测专用章”及骑缝章无效。未经本院许可, 不得部分复印、挪用或篡改本证书/报告内容。
Any report having not been signed by relevant responsible engineer, reviewer or authorized approver, or having been altered without authorization, or having not been stamped by both the "Dedicated Testing/Inspection Stamp" and the sealing stamp is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report/certificate is not permitted without the written authorization of SMQ.
5. 送样委托检验结果仅对来样有效; 委托检验的样品信息及委托方信息均由委托方填写, 本院不对其真实性及准确性负责。
The test results presented in the report apply only to the tested sample. The product information and the applicant information are provided by the customer and SMQ assumes no responsibility for their validity and accuracy.
6. 未经检验机构同意, 样品委托人不得擅自使用检验结果进行不当宣传。
Any use of SMQ test result for advertisement of the tested material or product must be approved in writing by SMQ.
7. 无 CMA 标志的报告, 仅供使用方内部参考, 不具有对社会的证明作用。含粤字编号的 CAL 标志仅适用于产品标准和判定标准。
The non-CMA report issued by SMQ is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose. CAL logo with symbol "Yue" is only relevant to product standards and reference of standards.
8. 对农产品监督检查检验结果有异议的, 可以自收到检验报告之日起五日内, 向组织实施农产品质量安全监督检查的农业行政主管部门或者其上级农业行政主管部门申请复检。对食品监督检查检验结果有异议的, 可以自收到检验报告之日起七个工作日内向实施抽样检验的食品药品监督管理部门或者其上一级食品药品监督管理部门提出复检申请。对其它检验报告有异议的, 应于报告发出之日起十五日内向本院提出。
Any objections to the testing results of supervision sampling of agricultural products should apply for retest within 5 days upon receiving the test report to the administrative department of agriculture who organizes and implements agricultural products' supervision sampling or its superior department. Any objections to the testing results of supervision sampling of food should apply for retest within 7 days upon receiving the test report to the administrative department of food and drug who organizes and implements supervision sampling for food or its superior department. Any objections to other inspection report issued by SMQ should be submitted to SMQ within 15 days after the issuance of the test report.
9. 电子版证书/报告更改后将不被追回, 委托方有义务将更改后的报告/证书提供给使用原报告/证书的相关方。
SMQ is not responsible for recalling the electronic version of the original report/certificate when any revision is made to them. The applicant assumes the responsibility of providing the revised version to any interested party who uses them.

投诉电话 Complaint hotline: 0755-86928949



检验报告

报告编号: WT204027715

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样品信息:

样品名称: KN95 Protective Face Mask
商标: HYNALT 海氏海诺
型号/规格/等级: C012 / Size S
样品编/批号: 200405
生产日期: 2020-04-05
生产单位: 青岛海诺生物工程有限公司Qingdao Hainuo Biological Engineering Co., Ltd
生产单位地址: 青岛市莱西市姜山镇工业园Jiangshan Industrial Park, Laixi, Qingdao, China
样品数量: 50只 抽样基数: _____
抽样地点: _____
抽样人员: _____
检前样品描述: 正常, Normal.

客户信息:

委托单位: 青岛海诺生物工程有限公司QINGDAO HAINUO BIOLOGICAL ENGINEERING CO., LTD.
委托单位地址: 青岛市莱西市姜山镇工业园广东路1号NO.1 GUANGDONG ROAD, JIANGSHAN INDUSTRIAL ZONE LAIXI CITY, QINGDAO, CHINA
委托单位电话: 17561677800
邮政编码: _____
受检单位: _____

检验信息:

委托日期: 2020年04月22日 委托单号: 8249678
检验类别: 送样检验 获样方式: 送样
检验日期: 2020年04月22日至2020年05月15日
检验环境条件: (18~25)℃ (30~70)RH
判定依据: GB 2626-2006
检测依据: GB 2626-2006

检验结论:

检验结果见附页。
Test result refer to next pages.

检验报告 GB2626-2006

Test Report GB2626-2006

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报告编号: WT204027715

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检验项目 Test Item	标准要求 Requirement	实测结果 Test Result	单项结论 Conclusion
1. 外观检查 Appearance (GB 2626-2006)	5.2条规定 5.2 Requirement	(GB 2626-2006) 1#~2#符合 Conformity	符合 Conformity
2. 过滤效率(%) Filtration efficiency (GB 2626-2006)	用氯化钠颗粒物检测: NaCl KN95≥95.0	(GB 2626-2006) 未预处理样品Unpretreated sample: 1#: 99.82 2#: 99.85 3#: 99.80 4#: 99.87 5#: 99.77 6#: 99.89 7#: 99.82 8#: 99.86 9#: 99.79 10#: 99.80 预处理样品Pretreated sample: 1#: 99.73 2#: 99.60 3#: 99.70 4#: 99.53 5#: 99.61 KN类 KN-Series 温度Temperature: 25.0℃ 相对湿度Relative humidity: 34.7% 颗粒物Aerosol chamber: NaCl 颗粒物浓度Concentration of aerosol chamber: 15mg/m ³ (检测流量Flow meter rate: 85L/min)	符合 Conformity

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检验项目 Test Item	标准要求 Requirement	实测结果 Test Result	单项结论 Conclusion
3. 呼吸阻力(Pa) Resistance of inhalation and exhalation (GB 2626-2006)	总吸气阻力Total inhalation Resistance ≤350 总呼气阻力Total exhalation Resistance ≤250	(GB 2626-2006) 吸气阻力Inhalation resistance: 未预处理样品Unpretreated sample: 1#: 2# 80.4 83.8 预处理样品Pretreated sample: 1#: 2# 95.4 103.8 呼气阻力Exhalation resistance: 未预处理样品Unpretreated sample: 1#: 2# 87.7 90.5 预处理样品Pretreated sample: 1#: 2# 94.0 104.3 (通气量: 85L/min) (Flow: 85L/min)	符合 Conformity
4. 死腔(%) Dead space (GB 2626-2006)	≤1	(GB 2626-2006) 抛弃式面罩Disposable facepiece: 0.50 (温度Temperature: 23.6℃)	符合 Conformity
5. 头带Head harness (GB 2626-2006)	抛弃式面罩Disposable facepiece: 10N, 持续10s 10N, continuous 10s 不应出现滑脱或断裂 No slippage or breakage	(GB 2626-2006) 未预处理样品Unpretreated sample: 1#~2#: 符合Pass 预处理样品Pretreated sample: 1#~2#: 符合Pass	符合 Conformity

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检验项目 Test Item	标准要求 Requirement	实测结果 Test Result	单项结论 Conclusion
6. 可燃性 Flammability (GB 2626-2006) 续燃时间(s) Afterflame time	≤5	(GB 2626-2006) 抛弃式面罩Disposable facepiece: 未预处理样品Unpretreated sample: 1#: 2# 0.0 0.0 预处理样品Pretreated sample: 1#: 2# 0.0 0.0 头模鼻尖位移速度: 60mm/s Displacement speed of Head mold nose tip: 60mm/s 距离燃烧器顶端20mm处的火焰温度: 812℃ Flame temperature at 20mm from the top of the burner: 812℃	符合 Conformity

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附注Note:

1. 此报告以中文为准, 英文仅作参考, The Chinese version of this test report is the standard one, the English version is only for reference.

2. 温度湿度预处理, 顺序按下述条件处理:

The sequence of temperature and humidity pretreatment is as follows:

- 在(38±2.5)℃和(85±5)%相对湿度环境放置(24±1)h
Place at (38 ± 2.5) °C and (85 ± 5)% relative humidity for (24 ± 1) hours;
- 在(70±3)℃干燥环境处理(24±1)h
Treatment in dry environment at (70 ± 3) °C for (24 ± 1) hours;
- (-30±3)℃环境放置(24±1)h
Place at (-30 ± 3) °C for (24 ± 1) hours;

样品温度经恢复至室温后5h, 再进行检测

After the sample temperature is restored to room temperature for 5 hours, the test shall be carried out again.

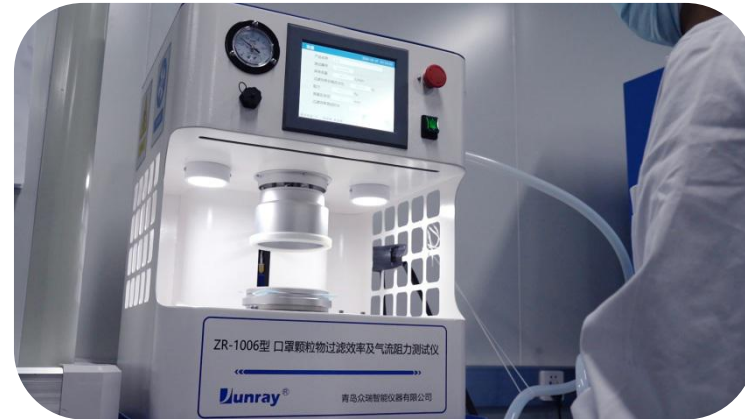
检验报告

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After the outbreak of the coronavirus COVID-19, the company invested more than 80 million yuan and added a number of new production lines for disposable medical face masks, KN95 protective masks, alcohol & iodine wipes and PE gloves production lines. Currently, the daily output of face masks reaches 3.6 million.

Related Reports from CCTV, Xinhua Net, Qingdao News





The Group has donated to Wuhan & Qingdao Medical Team, Ban Ki-moon Foundation and other domestic and foreign anti-epidemic first-line donations including protective supplies, alcohol disinfection products and daily necessities, with a total value of more than 10 million yuan.

Partners: China's top 100 chain pharmacies





Partners



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healthy and beautiful life.***

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