KN95 Nano Fiber Membrane Mask

World Advanced Nanotechnology

Advantage I

 $0.3 \,\mu\text{m}$ Filtration Efficiency $\geq 95\%$ Aerosol Filtration Efficiency $\geq 95\%$ PM2.5 Filtration Efficiency $\geq 99.99\%$

Advantage II

6 Layers (from Outside to Inside):

1st Layer: Non-woven Fabric
2nd Layer: Non-woven Fabric
3rd Layer: Nanofiber Membrane
4th Layer: Non-woven Fabric

5th Layer: Hydrophilic Hot Air Cotton

6th Layer: Skin Friendly Non-woven Fabric

Advantage III

Smooth Breathing
Size 14x15cm

Advantage IV

Longer Service Life

3 Times More than Common Mask





Main Functions

anti haze, PM2.5

prevent pollen and dust prevent fog and smoke anti bacteria and virus ventilation and moisture removal without fluorescent agent







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Introduction to product packaging

Product instructions

HOW TO USE



Step 1. Unfold and hold the FFP2 respirator with nose clip on top.



Step 2. Place the FFP2 respirator over nose and mouth and pinch the nose clip to conform to your nose.



Step 3. Hang the ear straps behind the ears.



Step 4. Mould the nose clip tightly to secure facial fit. Check seal in each use.

REMINDER

- When the AQI is below Level 3, please change the respirator every 3 days.
- When the AQI is Level 4, please change the respirator every 2 days.
- · When the AQI is Level 5, please change the respirator every day.
- · For better protection, please wear the mask as directed.

WARNING

- · Store in a cool dry place.
- · This product is not suitable for people with low vital capacity.
- · It is not recommended to use this product in poor air circulation environment or during sleep.
- · If there is breathing difficulty discontinue use immediately.

Batch number:20200401 Expiry date:

Made in China
Jiangsu Jiulang High-tech Co., Ltd.
29 Buyue Rd. Pukou, Nanjing, China
www.jiulang-tech.com/en/
Sole Distributed by
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Zhen Jiang Star Group
www.zhenjiangstargroup.com

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KN95 Respirator PPE Test Report

(File No.:BTS-23485P)

File No.: BTS-23485P P1/12





PPE Test Report

Report Number: BTS-23485P Date: Mar.29, 2020

Applicant Name: JIANGSU JIULANG HIGH-TECH CO., LTD

Applicant Address: NO.29, Bu yue Road, Qiaolin Sub-district, Pukou District,

Nanjing City, Jiangsu Province, China

Product : KN95 respirator

Brand name/Trade mark: \

Model(s): MF-01(class of device: FFP2 NR D)

According to : EN 149:2001+A1:2009

File No.: BTS-23485P P2/12

Martinopo por por				
Manufacturer	JIANGSU JIULANG	HIGH-TECH CO., LTD		
Applicant	NO.29, Bu yue Road, Qiaolin Sub-district, Pukou District, Nanjing City,			
Address	Jiangsu Province, Ch	Jiangsu Province, China		
Trade mark :	\	\		
Machinery				
Product Name	KN95 respirator			
Main Model	KN95 respirator			
Series Model(s)	MF-01(class of devic	e: FFP2 NR D)		
File No.	BTS-23485P			
Standards	EN 149:2001+A1:2009			
Compliance				
Date of Testing	Mar.29, 2020			
Testing	Shanghai Biaotong Testing Technology Service Co., Ltd			
Laboratory	No.11Lane 225, Jinxiang Road, Jinqiao Pudong, Shanghai,China.			
Tested by	Apollo Apollo BTS			
Approved by	Jack Yang	Jack yand 报告专用章 和 BTS 报告专用章		

Note:

- 1. The test results only respond to the tested sample, and are invalided as separately used.
- 2. Reproduction of this report without a written approval or permission is strictly prohibited.

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5	Classification	Classification	
	Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices:	Complied with standard, see appended.	Р
	- FFP1	FFP1	N
	- FFP2	FFP2	Р
	- FFP3	FFP3	N

6	Designation	Р
	Particle filtering half masks meeting the requirements of this European Standard.	Р
	Year of publication, classification	

7	Requirements		Р
7.1	In all tests all test samples shall meet the requirements	Complied see bellow	Р
7.2	Nomial values and tolerances		Р
	Unless otherwise specified, the values stated in this European Standard are expressed as normal values.	Actual using value is clear	Р
7.3	Visual inspection		Р
	The visual inspection shall also include the marking and the information supplied by the manufacturer.	Clear marking is provided, see sample body	Р
7.4	Packaging		Р
	Masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.	Distinct design and warning are made on packaging, see sample body	Р
7.5	Material		Р
	Materials used shall be suitable to withstand handling and wear over the period. Any material from the filter media released shall not constitute a hazard or nuisance for the wearer.	Comfortable wearing, when releasing no hazards is produced	Р
7.6	Cleaning and disinfecting		N
	The materials used shall withstand the cleaning and disinfecting	Single-use equipment	N

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7.7	Practical performance		Р
	The particle filtering half mask shall undergo practical performance tests under realistic conditions.	Complied, see bellow test	Р
7.8	Finish of parts	Soft equipment	N
	Parts likeyl to come into contact with the wearer shall have no sharp edges or burrs		N
7.9	Leakage		Р
7.9.1	Total inward leakage		Р
	The laboratory tests shall wearer to protect with high probability against the potential hazard to be expected.	Enough safe condition is provide	Р
	Exercise results for total inward leakage shall be not greater than 25% for FFP1 11% for FFP2	FFP2, See below test table	Р
	5% for FFP3		
7.9.2	Penetration of filter material		Р
	Meet the requirements of Table 1	FFP2 Sodium chloride test: 7.6% Paraffin oil test: 8.1%	Р
7.10	Compatibility with skin		Р
	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.	Have no irritation or adverse effect to skin and health	Р
7.11	Flammability	Have no such hazard	Р
	The material used shall not present a danger for the wearer and shall not be of highly flammable nature.		Р
7.12	Carbon dioxide content of the inhalation air		N
	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).	<1.0%	Р
7.13	Head harness		
	Head harness shall be designed so that mask can be doned and removed easily.	The design is considered	Р

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	Head harness shall be adjustable or self-adjusting and sufficiently robust to hold the mask firmly in position.	The design is considered	Р
7.14	Field of vision		Р
	The field of vision is acceptable if determined so in practical performance tests.	Clear field of vision when wearing	Р
7.15	Exhalation valve(s)		Ν
	A particle filtering half mask may have one or more exhalation valve(s) and shall function correctly in all orientations.		N
	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		N
	Exhalation valve(s) shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.		N
	Exhalation valve housing is attached to the faceblank, and withstand axially a tensile force of 10 N applied for 10 s.		N
7.16	Breathing resistance		Р
	The breathing resistances apply to valved and valveless and shall meet the requirements	Complied, seebelow test table	Р
7.17	Clogging		Р
7.17.1	General	Single-use device	Р
	For single-use devices clogging test is an optional test.		Р
	Devices designed to be resistant to clogging, shown by a slow increase		Р
	The specified breathing resistances shall not be exceeded before the required dust load of 833 mg·h/m3.		Р
7.17.2	Breathing resistance		Р
7.17.2. 1	Valved particle filtering half masks		N
7.17.2. 2	Valveless particle filtering half masks		Р

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	After clogging the inhalation and exhalation resistances shall not exceed - FFP1: 3 mbar - FFP2: 4 mbar - FFP3: 5 mbar	FFP2: <4 mbar	Р
	at 95 I/min continuous flow.		Р
7.17.3	Penetration of filter materia		Р
	All types claimed to meet the clogging requirement shall also meet the penetration requirements given in 7.9.2 after the treatment.		Р
7.18	Demountable parts	No any such part	N
	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.		

8	Testing		Р
8.1	General		Р
	No special measuring devices and methods are specified, commonly used devices and methods shall be used.	Common methods	Р
8.2	Visual inspection		Р
	The visual inspection is carried out appropriate by the test house prior to laboratory or practical performance tests.	Considered	Р
8.3	Conditioning		Р
8.3.1	Simulated wearing treatment		Р
	A breathing machine is adjusted to 25 cycles/min and 2,0 l/stroke.	25 cycles/min 2,0 l/stroke.	Р
	For testing, a saturator is incorporated in the exhalation line between the breathing machine and the dummy head,	a saturator incorporated by breathing machine and the dummy head	Р
	The spilling out of the dummy's mouth and contaminating the particle filtering half mask the head shall be incline	Incline considered	Р
8.3.2	Temperature conditioning		Р
	Exposet masks to the following thermal cycle:	Complied	Р
	a) for 24 h to a dry atmosphere of (70 \pm 3) $^{\circ}\mathrm{C}$;		Р

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b) for 24 h to a temperature of (-30 \pm 3) $^{\circ}$ C;		Р
Allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing.	5h	Р

9	Marking		
9.1	Packaging		Р
	The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.	Complied, clearly marked	Р
9.1.1	The name, trademark or other means of identification of the manufacturer or supplier.	See user manual	Р
9.1.2	Type-identifying marking.		Р
9.1.3	Classification: FFP1, FFP2, FFP3.	FFP2	Р
9.1.4	The number and year of publication of this European Standard.	See above	Р
9.1.5	At least the year of end of shelf life.	3 years	Р
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 used	
9.1.7	The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d.	See user manual	Р
9.1.8	The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D".		Р
9.2	Particle filtering half mask		Р
	Particle filtering half masks		Р
	Complying with this European Standard shall be clearly and durably marked with the following:		Р
9.2.1	The name, trademark or other means of identification of the manufacturer or		Р

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	supplier.		
9.2.2	Type-identifying marking.		Р
9.2.3	The number and year of publication of this European Standard.	See above	Р
9.2.4	The symbols FFP1, FFP2 or FFP3 according to class.	FFP2	Р
9.2.5	If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the class designation (see 9.2.4).		N
9.2.6	Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.		N

10	Information to be supplied by the manu	facturer	Р
10.1	Information supplied by the manufacturer shall be at least in the official language(s) of the country of destination.	English	Р
10.3	The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on - application/limitations; - the meaning of any colour coding; - checks prior to use; - donning, fitting; - use; - maintenance (e.g. cleaning, disinfecting), if applicable; - storage; - the meaning of any symbols/pictograms used of the equipment.	See user manual See user manual	P
10.4	The information shall be clear and comprehensible. If helpful, illustrations, part numbers, marking shall be added.	Clearly considered	Р

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40.5	Maraine als all heavines are instrumed large	0	
10.5	Warning shall be given against problems likely to be encountered, for example:	See user manual	P
	- fit of particle filtering half mask (check prior to use);		
	- it is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal;		
	- air quality (contaminants, oxygen deficiency);		
	- use of equipment in explosive atmosphere.		
10.6	The information shall provide recommendations as to when the particle filtering half mask shall be discarded.		Р

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Attachments: test table

Table 8.5 Leakage		test	Р			
Models		Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Test subject walk (km/h)		5	5	5	5	5
Particle size distribution(um)		0.08~1.6	0.08~1.6	0.08~1.6	0.08~1.6	0.08~1.6
NaCl flow rat (L/min)	te	99~104	99~104	99~104	99~104	99~104
NaCl concentration before mask (mg/m3)		7.9~8.3	7.9~8.3	7.9~8.3	7.9~8.3	7.9~8.3
NaCl concentration after mask (mg/m3)		0.49	0.48	0.49	0.50	0.49
Note: Test ark volume is 2m ³						

Test result total inward Leakage is 6.2%<11%

Table 8.9-1 Inhalatio		on breathing resistance test at 30 L/min				Р
Models Item		Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Inhalation gas velocity (L/min)		30	30	30	30	30
Maximum resistance (mbar)		0.66	0.65	0.67	0.65	0.63
Note: Maximum permitted resistance <1.0 mbar						

Table 8.9-2 Inha	Inhalation breathing resistance test at 95 L/min				
Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5

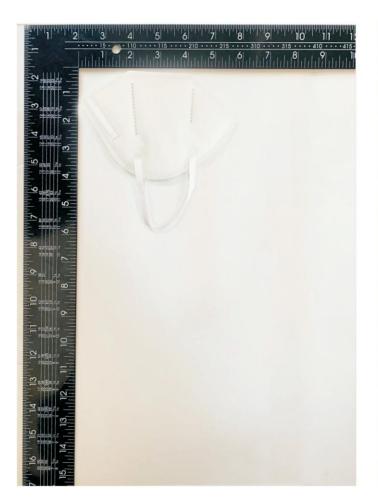
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Inhalation gas velocity (L/min)	95	95	95	95	95
Maximum resistance (mbar)	2.21	2.22	2.25	2.21	2.23
Note: Maximum permitted resistance < 3.0 mbar					

Table 8.9-3 Exhalation		ion breathing resistance test at 160 L/min				Р
Models		Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Exhalation (L/min)		160	160	160	160	160
Maximum resi (mbar)		2.35	2.36	2.41	2.39	2.35

Note: Maximum permitted resistance < 3.0 mbar

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16 ====**END**====

Form QAT_10-M04, version 00, effective since March 6th, 2020

Certificate of Compliance

No. 4M200327T.JJH0Q83



Certificate's Holder: JIANGSU JIULANG HIGH-TECH CO., LTD NO.29, Bu yue Road, Qiaolin Sub-district, Pukou District, Nanjing City, Jiangsu Province, China

Certification ECM Mark:



Product: Model(s): KN95 respirator MF-01 (class of device: FFP2 NR D)

Verification to: Standard:

EN 149:2001+A1:2009

related to CE Directive(s):
R 2016/425 (Personal Protective Equipment)

Remark: This document has been issued on a voluntary basis and upon request of the manufacturer, it is our opinion that the technical documentation received from the manufacturer is satisfactory for the requirements of the ECM Certification Mark. The conformity mark above can be affixed on the products accordingly to the ECM regulation about its release and its use.

Additional information and clarification about the Marking:



The manufacturer is responsible for the CE Marking process, and if necessary, must refer to a Notified Body. This document has been issued on the basis of the regulation on ECM Voluntary Mark for the certification of products, RG01_ECM rev.3 available at: www.entecerma.it

Issuance date: 27 March 2020 Expiry date: 26 March 2025

> Reviewer Technical expert Amanda Payne



Ente Certificazione Macchine Srl

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证书号第2804550号





发明专利证书

发明名称:一种智能膜材料防雾霾口罩

发 明 人: 仲兆祥;武军伟;周群;郭红林

专 利 号: ZL 2016 1 1215953.5

专利申请日: 2016年12月26日

专 利 权 人: 江苏久朗高科技股份有限公司

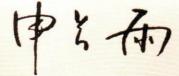
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局长申长雨





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检验检测报告

TEST REPORT



国家服饰及布艺产品质量监督检验中心(江苏) National Apparel and Cloth Art Products Quality Supervision and Inspection Center(Jiangsu) 江苏省纺织产品质量监督检验研究院 Jiangsu Textiles Quality Services Inspection Testing Institute

江苏省纺织产品质量监督检验研究院 检验报告





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JS1-I	FW202000682		人 4 风 另 1 风
产品名称	口罩	型号规格	_
委托单位	江苏久朗高科技股份有限公司	商 标	_
地址	南京市浦口区桥林街道步月路29号12幢-204	检验类别	委托送样
生产单位	江苏久朗高科技股份有限公司	样品等级 安全类别	KN95/—
地址	南京市浦口区桥林街道步月路29号12 幢-204	到样日期	2020-03-24
抽样地点		检验日期	2020-03-24~2020-03-27
样品数量	60只	分包情况	_
抽样基数 抽样批量	—/—	样品状态	符合检验要求
批号或货 号或款号		生产日期	-
检验/判定 依据	GB 2626-2006《呼吸防护用品 自吸过	滤式防颗粒物	7呼吸器》
检验结论	见检测结果页。 签发日期:	2020年0	3月27日
备注			

批准:



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地址:南京市尤华东街3号邮编:210007 电话/传真:025-85770158/85770018

检测结果



共2页第2页

序号	检验项目		测试方法	技术要求	检验结果	单项判定
1	过滤效率(%)	未处理样	GB2626-2006	≥95.0	98. 4, 98. 4, 98. 1, 98. 2 , 98. 1, 98. 2, 98. 1, 98. 3, 98. 2, 98. 2	合格
2	吸气阻力(Pa)	未处理样	GB2626-2006	≤350	165, 177	合格
3	呼气阻力(Pa)	未处理样	GB2626-2006	≤250	137, 141	合格

