

Basic Info

Product name : DUHA kn95 non -medical particular respirator

Mask size:15.5cm × 10.5cm , 4mm thick

Filter layer:five layers ,two layers of 50g non-woven fabric, two layers of 25g melt blown fabric and one layer of 50g hot air cotton

Filter rate: 95%

Total inhale resistance [Pa]: 350pa

Total exhalation resistance [Pa]: 250pa

Flammability (s): 5s

Per mask (not include delivery)

1.Chinese Factory price with tax:

8RMB =1.05 EUR=1.13 USD

2.Agency fee:6RMB=0.78EUR=0.85USD

Total: 14RMB=1.82EUR=1.98USD(Settled in RMB)

Minimum order:5000 pieces

Delivery :

1.cargo ship freight ,45RMB =6.4USD /kilo

(Volume weight) ,per mask is around 0.7RMB=0.1USD
=0.09EUR ,actual charge

according to the actual weight ,arriving within 20days

2.charter plane freight ,150RMB =21USD/kilo

(Volume weight) ,per mask is around 2RMB=0.3USD=
0.27EUR ,actual charge

according to the actual weight ,arriving 7-10days

The Outlook



Non-medical

KN95

PROTECTIVE MASKS

Model:DH-510



COMFORTABLE

3D

DESIGN



Anti-germ



Anti-fog



Anti-dust



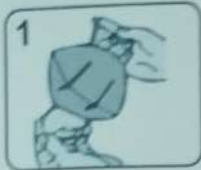
Anti-spray



10

 PCS

HOW TO WEAR THE MASK



1. Open the face mask, hold the ear straps with both hands and let the nose clips be above the mask.
2. Keep the lower part of the mask close to your chin to cover your mouth and nose.
3. Hang on the ear straps to both ears separately.
4. Press the nose clip with both hands. Press from both sides of the nose to the face until they are completely pressed into the shape of the nose bridge.

Matters need attention

1. Please confirm whether the packaging is intact before use. Do not use if the packing is damaged.
2. Use with caution for those who are allergic to non-woven fabrics and those with abnormal cardiopulmonary function.
3. This package is portable and belongs to personal products.
4. Children shall use it under the guardian. If you feel unwell, please stop using it immediately.
5. This product is not suitable for wearing in toxic gas environment

Scope of Application:

industrial production, food processing, self protection.

Authorized Manufacturer: GUANGDONG DONGHUA
OPTOELECTRONICS TECHNOLOGY CO.,LTD

Address of Manufacturer: Kengkou Ind Zone, Dean Village,
Houjie Town, Dongguan, Guangdong, China

Validity: 3years

CE Non-medical Executive standard:

EN149-2001+A1-2009

KN95 Non-medical Executive standard :

GB2626-2006

European protective mask classification: FFP2

Made in China

Non-medical



6 973077 950070



Particle filtration efficiency \geq KN95

KN95

PROTECTIVE MASKS



Particulate matter



Fog prevention and haze

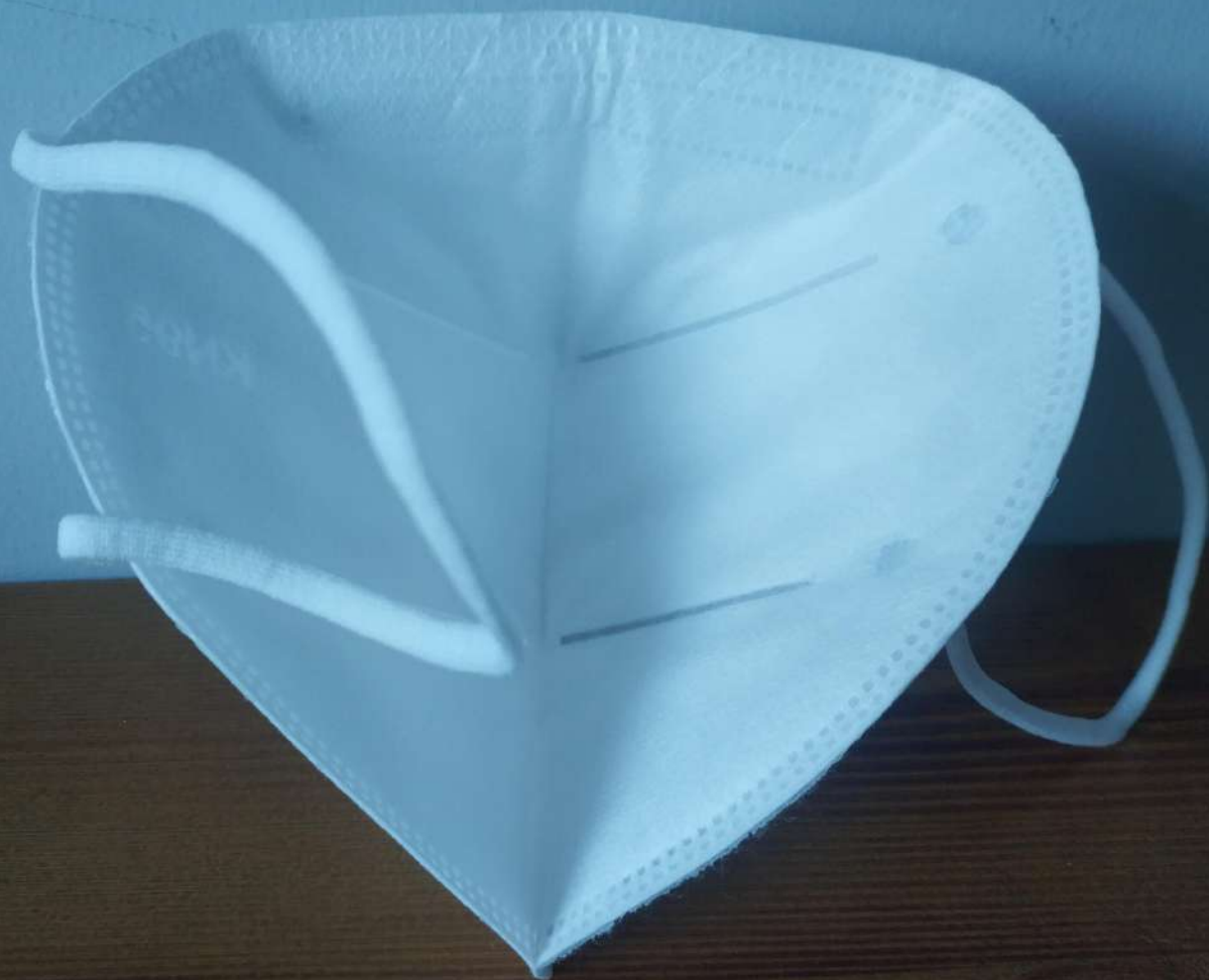


Dust prevention



Anti-spray











certificate and test report



Certificate of Compliance

No. 4M200402T.GDO0W09

Technical Construction File no. 20ZCTS0323025SP

Certificate's Holder: GUANGDONG DONGHUA OPTOELECTRONICS TECHNOLOGY CO., LTD.
Kengkou Ind Zone, Dean Village, Houjie Town, 523943, Dongguan, Guangdong, China

Manufacturer: GUANGDONG DONGHUA OPTOELECTRONICS TECHNOLOGY CO., LTD.
Kengkou Ind Zone, Dean Village, Houjie Town, 523943, Dongguan, Guangdong, China

Certification ECM Mark:



Product: Particulate Respirator
Model(s): DH-510

Verification to: Standard:
EN149-2001+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 according 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: 02 April 2020

Expiry date: 01 April 2025

Reviewer
Technical expert
Amanda Payne

Approver
ECM Service Director
Luca Bedonni

Ente Certificazione Macchine Srl

Via Ca' Bella, 243 – Loc. Castello di Serravalle – 40053 Valsamoggia (BO) - ITALY
☎ +39 051 6705141 📠 +39 051 6705156 ✉ info@entecerma.it 🌐 www.entecerma.it



Certificate Of Registration

Guangdong Donghua Optoelectronics Technology Co., Ltd.
Kengkou Ind Zone, Dean Village, Houjie Town, Dongguan City,
Guangdong Province, China

Has Completed With The U.S. Food And Drug Administration Pursuant To 21 CFR Part 807: Establishment Registration And Device Listing

Owner/Operator No.:10065173

Listing Number	Code No.	Proprietary Name	Model
D380844	LYU	Face Mask	DH-511
		Particulate Respirator	DH-510
D380865	HOY	Safety Goggles	DH-315C
		Face Shield	DH-212

Huawin will confirm that such registration remains effective upon request and presentation of this certificate until the end of the calendar year stated above, unless said registration is terminated after issuance of this certificate. Huawin makes no other representations or warranties, nor does this certificate make sole benefit it is issued. This certificate does not denote endorsement or approval of the certificate-holder's device or establishment by the U.S. Food and Drug Administration. Huawin assumes no liability to any person or entity in connection with the foregoing.

The U.S. Food and Drug Administration does not issue a certificate of registration, nor does the U.S. Food and Drug Administration recognize a certificate of registration. Huawin is not affiliated with the U.S. Food and Drug Administration.



Manager: Guy Su
Issue date: Mar. 28, 2020
Expire Date: Dec. 31, 2020

Shenzhen Huawin Testing Certificaton Co., Ltd.
Add: 7F, U Center, No.743, Zhoushi Road, Bao'an, Shenzhen, China
Http://www.huawinlab.com E-mail: info@huawinlab.com

TEST REPORT EN 149 Respiratory protective devices. Filtering half masks to protect against particles.Requirements,testing,marking	
Report Reference No.....	20ZCTS0323025SP
Checked by (printed name and signature) ...	Kevin Yang
Approved by (printed name and signature) ...	King Hu
Date of issue.....	Mar.30, 2020
Testing laboratory.....	Shenzhen ZCT Technology Co., Ltd.
Address.....	3F,5th Building,Bao'an Road 4336, Bao'an Distrct,Shenzhen,China
Applicant's name.....	GUANGDONG DONGHUA OPTOELECTRONICS TECHNOLOGY CO., LTD.
Address.....	Kengkou Ind Zone, Dean Village, Houjie Town, 523943, Dongguan, Guangdong, China
Manufacturer's name.....	GUANGDONG DONGHUA OPTOELECTRONICS TECHNOLOGY CO., LTD.
Address.....	Kengkou Ind Zone, Dean Village, Houjie Town, 523943, Dongguan, Guangdong, China
Factory's name.....	Same as applicant
Address.....	
Test specification:	
Standard.....	<input checked="" type="checkbox"/> EN 149:2001+A1:2009
Test procedure.....	CE
Non-standard test method.....	N/A
Test Report Form No.....	20ZCTS0323025SP
TRF Originator.....	ZCT
Master TRF.....	Dated 2019-01
Test item description.....	Particulate Respirator
Trade Mark.....	N/A
Model/Type reference.....	DH-510
Ratings.....	-



Possible test case verdicts:

- test case does not apply to the test object... N (Not apply)
- test object does meet the requirement.....P (Pass)
- test object does not meet the requirement.....F (Fail)

Testing

Date of receipt of test item Mar.23, 2020

Date(s) of performance of tests Mar.23, 2020 to Mar.30, 2020

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory

"(See Enclosure #)" refers to additional information appended to the report.

"(See appended table)" refers to a table appended to the report.

General product information:

N/A

Copy of marking plate:

Particulate Respirator
Model:DH-510
Classification:FFP2 NR
Standard: EN 149:2001+A1:2009

GUANGDONG DONGHUA OPTOELECTRONIC TECHNOLOGY CO., LTD.

Made in China



EN 149			
Clause	Requirement – Test	Result - Remark	Verdict
5	Classification		--
	Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices:		P
	- FFP1		N
	- FFP2	>95%	P
	- FFP3		N

6	Designation		--
	Particle filtering half masks meeting the requirements of this European Standard. Year of publication, classification, option	Particle filtering half mask EN 149:2001+A1:2009 FFP2 NR.	P

7	Requirements		--
7.1	General		P
	All test all test samples shall meet the requirements.	Compled the requirement, see bellow	P
7.2	Nominal values and tolerances		P
	Unless otherwise specified,the values stated in this European Standard are experature limits.		P
7.3	Visual inspection		P
	The visual inspection shall also include the marking and the information supplied by the manufacturer.	Clear marking is provided, see sample body	P
7.4	Packaging		P
	Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.		P
7.5	Material		P
	Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used. Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Comfortable wearing, when releasing no hazards is produced.	P
7.6	Cleaning and disinfecting		N
	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.	It's is not re-usable.	N
7.7	Practical performance		P
	The particle filtering half mask shall undergo practical performance tests under realistic conditions.	Complied, see append test.	P
7.8	Finish of parts		P
	come into contact with the wearer shall have no sharp edges or burrs		P
7.9	Leakage	See append table 8.5	P
7.9.1	Total inward leakage		P
	The laboratory tests shall wearer to protect with high probability against the potential hazard to be expected.	Enough safe condition is Provide.	P



EN 149			
Clause	Requirement – Test	Result - Remark	Verdict
	Exercise results for total inward leakage shall be not greater than		P
	25 % for FFP1 11% for FFP2 5 % for FFP3	FFP2, Not exceed 11%	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.		P
	22 % for FFP1 8 % for FFP2 2 % for FFP3.	FFP2, Not exceed 8%	P
7.9.2	Penetration of filter material		P
	The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1.	see append table 7.92	P
7.10	Compatibility with skin		P
	Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.		P
7.11	Flammability		P
	The material used shall not present a danger for the wearer and shall not be of highly flammable nature.		P
7.12	Carbon dioxide content of the inhalation air		P
	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0% (by volume).	<1.0%	P
7.13	Head harness		P
	Head harness shall be designed can be donned and removed easily and adjustable or selfadjusting and sufficiently robust to hold the particle.	Head harness is donned and removed easily	P
7.14	Field of vision		P
	Field of vision is acceptable in practical performance tests.	Clear field of vision when wearing	P
7.15	Exhalation valve(s)		N
	A particle filtering half mask may have one or more exhalation valve(s) and shall function correctly in all orientations.	One valve provided	N
	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.	Clearly function	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		P
	Breathing resistances apply to valved and valveless and shall meet the requirements.		P
7.17	Clogging		N
	General		N
	For single-use devices clogging test is an optional test.		N
	Devices designed to be resistant to clogging, shown by a slow increase		N



EN 149			
Clause	Requirement – Test	Result - Remark	Verdict
	The specified breathing resistances shall not be exceeded before the required dust load of 833 mg·h/m ³ .		N
7.17.2	Breathing resistance		N
7.17.2.1	Valved particle filtering half masks		N
7.17.2.2	Valveless particle filtering half masks		N
7.17.3	Penetration of filter materia		N
	All types claimed to meet the clogging requirement shall also meet the penetration requirements given in 7.9.2 after the treatment.		N
7.18	Demountable parts		N
	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.	No such demountable part	N

8	Testing		–
8.1	General		P
	No special measuring devices and methods are specified, commonly used devices and methods shall be used.		P
8.2	Visual inspection		P
	The visual inspection is carried out appropriate by the test house prior to laboratory or practical performance tests.		P
8.3	Conditioning		P
8.3.1	Simulated wearing treatment		P
	A breathing machine is adjusted to 25 cycles/min and 2,0 l/stroke.	25 cycles/min 2,0 l/stroke.	P
	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.	P
	The spilling out of the dummy's mouth and contaminating the particle filtering half mask the head shall be incline	Incline considered	P
8.3.2	Temperature conditioning		P
	Exposet masks to the following thermal cycle:		P
	a) for 24 h to a dry atmosphere of (70 ± 3) °C;		P
	b) for 24 h to a temperature of (-30 ± 3) °C;		P
	Allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing.	4 h to paid for	P
8.3.4	Flow conditioning		P
	A total of 3 valved particle filtering half masks shall be tested, one as received and two temperature conditioned in accordance with 8.3.2.		P

9	Marking		–
9.1	Packaging		P
	The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.	Complied, clearly marked	P
9.1.1	The name, trademark or other means of identification of the manufacturer or supplier.		P



EN 149			
Clause	Requirement – Test	Result - Remark	Verdict
9.1.2	Type-identifying marking.		P
9.1.3	Classification: FFP1, FFP2, FFP3.	FFP2 NR	P
9.1.4	The number and year of publication of this European Standard.		P
9.1.5	At least the year of end of shelf life.		P
9.1.6	The sentence 'see information supplied by the manufacturer', at least in the official language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.		P
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 product manual	P
9.1.8	The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D".		N
9.2	Particle filtering half mask		P
	Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:		P
9.2.1	The name, trademark or other means of identification of the manufacturer or supplier.	GUANGDONG DONGHUA OPTOELECTRONICS TECHNOLOGY CO., LTD.	P
9.2.2	Type-identifying marking.		P
9.2.3	The number and year of publication of this European Standard.		P
9.2.4	The symbols FFP1, FFP2 or FFP3 according to class.	FFP2 NR	P
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



Attachments: Test table

Table 7.9.2		Penetration of test aerosol test					P
Item	Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
	Sodium chloride test 95 l/min		5.6	5.7	5.5	5.6	5.7
Paraffin oil test 95 l/min		5.4	5.6	5.7	5.7	5.6	5.5

Table 8.5		Leakage test				P
Item	Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
	NaCl flow rate (L/min)		90	100	120	110
NaCl aerosol (um)		0.3	0.3	0.3	0.3	0.3
0.3 Pumping flow rate (L/min)		30	30	30	30	30
NaCl concentration before mask (Mg/m3)		2	2	2	2	2
NaCl concentration after mask (Mg/m3)		0.05	0.06	0.07	0.08	0.06

Note: Test ark volume is 2m³
Average Leakage ratio is 8%<11%
Calculation formula as below :

$$P(\%) = \frac{C_2}{C_1} \times \left(\frac{t_{IN} + t_{EX}}{t_{IN}} \right) \times 100$$

Table 8.9.2		Exhalation resistance test				P
Item	Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
	Inhalation gas velocity (L/min)		160	160	160	160
Maximum resistance (mbar)		2.45	2.47	2.45	2.46	2.46

Conclusion: Maximum permitted resistance < 3.0 mbar

Table 8.9.3		Inhalation resistance test				P
Item	Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
	Inhalation gas velocity (L/min)		30	30	30	30
Maximum resistance (mbar)		0.42	0.44	0.44	0.45	0.43

Conclusion: Maximum Inhalation resistance < 0.7 mbar



Table 8.9.3.2		Inhalation resistance test				P
Item	Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
	Inhalation (L/min)		95	95	95	95
Maximum resistance (mbar)		2.12	2.14	2.16	2.15	2.14
Conclusion: Maximum Inhalation resistance < 2.4mbar						



Details of: Particulate Respirator , model : DH-510

Details of: Particulate Respirator , model : DH-510

View:

- [X] general
- [] front
- [] rear
- [] right
- [] left
- [] top
- [] bottom



Details of: Particulate Respirator , model : DH-510

View:

- [X] general
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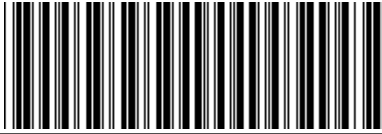
- End of Test Report -



Inspection and test report

(电子版)

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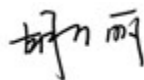
Security code: YGMS-5216-04

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Client	Guangdong Donghua Photoelectric Technology Co., Ltd Address: pithead Industrial Zone, Tingshan village, Houjie Town, Dongguan City				
Sample information	50 kn95 protective masks Batch No.: 20200304c Color: white -----				
Inspection	Entrusted testing	Sample acceptance / test start date	2020-04-03	Report issue date	2020-04-08
Judgment basis	Gb2626-2006 respiratory protective equipment self suction filter type particle respirator				
assembly testing					
Result	Inspection and test items	Judgment basis	determine		
	Inspiratory resistance	GB 2626-2006	qualified		
	Expiratory resistance	GB 2626-2006	qualified		
	flammability	GB 2626-2006	qualified		
	Headband	GB 2626-2006	qualified		
Remarks	<p>The inspection and test items in this report are all carried out under the environmental conditions specified in the corresponding standards (unless otherwise noted). The copy and the copy are invalid without re stamping the confirmation seal of the report.</p> <p>The test address of this report is No.1 Zhujiang Road, Panyu District, Guangzhou.</p>				

签发: 胡万丽 工程师




Sample picture (电子版)

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Inspection and test items	test method	Standard value and tolerance	Inspection and test results	result	Mark
● Suction resistance (PA)	Gb2626-20066.5 head mould: medium	≤350	Untreated sample: 1 × 93.8 2#92.2 Pretreatment sample: 1 × 93.4 2#86.9	qualified	
● Expiratory resistance (PA)	Gb2626-20066.5 head mould: medium	≤250	Untreated sample: 1 × 59.6 2#54.4 Pretreatment sample: 1 × 52.4 2#64.2	qualified	
● Flammability (s)	GB 2626-2006 6.15	Continuous burning time 5	Afterburning time Untreated sample 1#0.0 2#0.0 After temperature and humidity pretreatment, sample 3 × 0.0 4#0.0	qualified	
● Headband	GB 2626-2006 6.11	Each headband, buckle and other adjusting parts of the mask shall bear 10N pull force for 10s without slipping or breaking.	Untreated samples: 1. Meet the requirements Sample after temperature and humidity pretreatment: 1 × meets the requirements	qualified	
Mark	(blank in this column)				

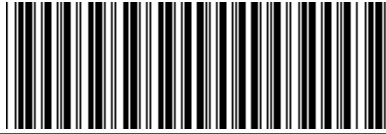


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Inspection and test report

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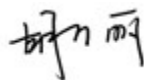
Security code: JLJJ-5147-24

Page 1 of 3



Client	Guangdong Donghua Photoelectric Technology Co., Ltd Address: pithead Industrial Zone, Tingshan village, Houjie Town, Dongguan City		
Sample information	15 kn95 protective masks Batch No.: 20200304c Color: white -----		
properties	Entrusted testing	Sample acceptance / test start date	2020-04-03
		Report issue date	2020-04-08
Judgment basis	Gb2626-2006 respiratory protective equipment self suction filter type particle respirator		
conclusion			
Result	Inspection and test items	Judgment basis	determine
	Filtration efficiency of NaCl particles	GB 2626-2006	qualified
Remarks	The inspection and test items in this report are all carried out under the environmental conditions specified in the corresponding standards (unless otherwise noted). The copy and the copy are invalid without re stamping the confirmation seal of the report. The test address of this report is No.1 Zhujiang Road, Panyu District, Guangzhou.		

签发: 胡万丽 工程师




Sample picture (电子版)

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共3页 第2页



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No: 200062172

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Inspection and test items	test method	Standard value and tolerance	Inspection and test results	determine	Mark
● Filtration efficiency of NaCl particles	GB2626-20066.3 Air flow: 85L / min Aerosol particles: NaCl Aerosol concentration: 15mg / temperature: 23.1 Relative humidity: 36.0%	5 (KN95)	Filtration efficiency (%): Untreated sample 1#98.49 2#98.82 3#98.74 4#98.41 5#98.38 6#98.45 7#98.56 8#98.70 9#98.63 10#98.71 Sample 1 × 98.06 after temperature and humidity pretreatment 2#98.03 3#97.86 4#98.15 5#97.95	qualified	
Mark	(blank in this column)				



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