



Test Report

Product:	Particle Filtering Half Mask
Model /Type:	HG-1 FFP2
Trademark:	
Applicant:	Dongguan Huagang Communication Technology Co., Ltd.
Address:	No. 78, Jinmei Jinhe 2nd Road, Changping Town, Dongguan City, Guangdong Province, China
Manufacturer	Dongguan Huagang Communication Technology Co., Ltd.
Address:	No. 78, Jinmei Jinhe 2nd Road, Changping Town, Dongguan City, Guangdong Province, China
Laboratory:	Aerospace Testing Technology (Shenzhen) Co., Ltd.
Address:	3/F, Block A1, No. 5, 8th Road, Shapu Yangyong Industrial Park, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Report Number	AST2003205019
Standard:	EN 149:2001 +A1:2009
Web :	http://www.ast-test.com


Tested By: 

Date: 2020-03-27

Approved By: 

Date: 2020-03-27



TEST REPORT	
EN 149:2001 +A1:2009 Respiratory protective devices — Filtering half masks to protect against particles —Requirements, testing, marking	
Report reference No.	AST2003205019
Test By.....	Megan
Approved By.....	Thomas
Date of issue.....	2020-03-20
Date of test.....	2020-03-20 to 2020-03-27
Testing laboratory	Aerospace Testing Technology (Shenzhen) Co., Ltd.
Location.....	3/F, Block A1, No. 5, 8th Road, Shapu Yangyong Industrial Park, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Applicant.....	Dongguan Huagang Communication Technology Co., Ltd.
Address:.....	No. 78, Jinmei Jinhe 2nd Road, Changping Town, Dongguan City, Guangdong Province, China
Standards.....	EN 149:2001 +A1:2009
Procedure deviation.....	N/A
Non-standard test method.....	N/A
Type of test product.....	Particle Filtering Half Mask
Trade mark.....	
Model/Type designation.....	HG-1 FFP2
TRF originator. :	AST
Copyright blank test report:	--
Test item particulars:	N/A
Test procedure	PPE Approval
Test Report Form No..... :	EN 149

Possible test case verdicts :	
test case does not apply to the test object	N(/A.)
test object does meet the requirement	P(ass)
test object does not meet the requirement	F(ail)
General remarks:	
<p>“(see remark #)” refers to a remark appended to the report.</p> <p>“(see appended table)” refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced except in full without the written approval of the testing laboratory.</p> <p>Until otherwise specified, all tests are done under normal ambient condition 25°C±10°C, Max RH: 75% and air pressure of 860 mbar to 1060 mbar.</p>	<p>Attached with:</p> <p>Attachment - A. Photo Documentation</p>
<p>The test samples were pre-production samples without serial numbers. This report shall not be reproduced except in full without the written approval of the testing laboratory.</p> <p>This report covers HG-1 FFP2.</p> <p>The test result presented in this report relate only to the object tested. The samples tested comply with the requirements of this standard.</p>	

Clause	Requirement + Test	Result - Remark	Verdict
1	Scope		-
2	Normative references		-
3	Terms and definitions		-
3.1	re-useable particle filtering half mask particle filtering half mask intended to be used for more than a single shift		-
4	<p>Description</p> <p>A particle filtering half mask covers the nose and mouth and the chin and may have inhalation and/or exhalation valve(s). The half mask consists entirely or substantially of filter material or comprises a facepiece in which the main filter(s) form an inseparable part of the device. It is intended to provide adequate sealing on the face of the wearer against the ambient atmosphere, when the skin is dry or moist and when the head is moved.</p> <p>Air enters the particle filtering half mask and passes directly to the nose and mouth area of the facepiece or, via an inhalation valve(s) if fitted. The exhaled air flows through the filter material and/or an exhalation valve (if fitted) directly to the ambient atmosphere.</p> <p>These devices are designed to protect against both solid and liquid aerosols.</p>		P
5	<p>Classification</p> <p>Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices: FFP1, FFP2 and FFP3.</p> <p>The protection provided by an FFP2 - or FFP3 - device includes that provided by the device of lower class or classes.</p>	FFP2	P
6	<p>Designation</p> <p>Particle filtering half masks meeting the requirements of this European Standard shall be designated in the following manner: Particle filtering half mask EN 149, year of publication, classification, option (where "D" is an option for a non re-useable particle filtering half mask and mandatory for re-useable particle filtering half mask)."</p>	Particle filtering half mask EN 149:2001 FFP2 NR	P
7	Requirements		P
7.1	<p>General</p> <p>In all tests all test samples shall meet the requirements.</p>		P

Clause	Requirement + Test	Result - Remark	Verdict
7.2	Nominal values and tolerances Unless otherwise specified, the values stated in this European Standard are expressed as Nominal values. Except for temperature limits, values which are not stated as maxima or minima shall be subject to a tolerance of $\pm 5\%$. Unless otherwise specified, the ambient temperature for testing shall be (16 - 32) °C, and the temperature limits shall be subject to an accuracy of ± 1 °C.		P
7.3	Visual inspection The visual inspection shall also include the marking and the information supplied by the manufacturer.	Manufacture: Dongguan Huagang Communication Technology Co., Ltd.	P
7.4	Packaging 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. Testing shall be done in accordance with 8.2.		P
7.5	Material 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. After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps. Three particle filtering half masks shall be tested. When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not 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. Testing shall be done in accordance with 8.2.		P
7.6	Cleaning and disinfecting 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." BS EN 149:2001+A1:2009		P
	With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class. Testing shall be done in accordance with 8.11."		P

EN 149:2001 +A1:2009			
Clause	Requirement + Test	Result - Remark	Verdict
7.7	Practical performance The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard. Where practical performance tests show the		P
	apparatus has imperfections related to wearer's acceptance, the test house shall provide full details of those parts of the practical performance tests which revealed these imperfections. Testing shall be done in accordance with 8.4.		
7.8	Finish of parts Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs. Testing shall be done in accordance with 8.2.		P
7.9	Leakage		P
	The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected. The total inward leakage consists of three components: face seal leakage, exhalation valve leakage (if exhalation valve fitted) and filter penetration.		P
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. Testing shall be done in accordance with 8.4 and 8.5.		P
7.11	Flammability The material used shall not present a danger for the wearer and shall not be of highly flammable nature. When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5 s after removal from the flame. The particle filtering half mask does not have to be usable after the test. Testing shall be done in accordance with 8.6. BS EN 149:2001+A1:2009		P
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). Testing shall be done in accordance with 8.7.	0.6%	P

Clause	Requirement + Test	Result - Remark	Verdict
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 and be capable of maintaining total inward leakage requirements for the device. Testing shall be done in accordance with 8.4 and 8.5	Hanging ear type	NA
7.14	Field of vision The field of vision is acceptable if determined so in practical performance tests. Testing shall be done in accordance with 8.4.		P
7.15	Exhalation valve(s) A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations. Testing shall be done in accordance with 8.2 and 8.9.1. 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. Testing shall be done in accordance with 8.2. 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. Testing shall be done in accordance with 8.3.4. When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s. Testing shall be done in accordance with 8.8.	No such parts	N
7.16	Breathing resistance The breathing resistances apply to valved and valveless particle filtering half masks and shall meet the requirements of Table 2		P
7.17	Clogging		P

Clause	Requirement + Test	Result - Remark	Verdict
7.17.1	General For single shift use devices, the clogging test is an optional test. For re-usable devices the test is mandatory." Devices designed to be resistant to clogging, shown by a slow increase of breathing resistance when loaded with dust, shall be subjected to the treatment described in 8.10. The specified breathing resistances shall not be exceeded before the required dust load of 833 mg • h/m ³ is reached.	No such parts	N
7.17.2	Breathing resistance		P
7.17.2.1	Valved particle filtering half masks	<5 mbar at 95 l/min continuous flow	P
7.17.2.2	Valveless particle filtering half masks	<4 mbar at 95 l/min continuous flow	P
7.17.3	Penetration of filter materia		P
	All types (valved and valveless) of particle filtering half masks claimed to meet the clogging Requirement shall also meet the requirements given in 7.9.2, for the Penetration test according to EN 13274-7, after the clogging treatment.		P
7.18	Demountable parts All demountable parts (if fitted) shall be readily connected and secured, where possible by hand. Testing shall be done in accordance with 8.2.	No such parts	N
8	Testing		P
8.1	General If no special measuring devices and methods are specified, commonly used devices and methods shall be used. NOTE For a summary of testing, see Table 4. Before performing tests involving human subjects account should be taken of any national regulations concerning the medical history, examination or supervision of the test subjects.	-	-
8.2	Visual inspection The visual inspection is carried out where appropriate by the test house prior to laboratory or practical performance tests.		P
8.3	Conditioning		P
8.3.1	Simulated wearing treatment		P

Clause	Requirement + Test	Result - Remark	Verdict
	<p>Conditioning by simulated wearing treatment shall be carried out by the following process. A breathing machine is adjusted to 25 cycles/min and 2,0 l/stroke. The particle filtering half mask is mounted on a Sheffield dummy head. For testing, a saturator is incorporated in the exhalation line between the breathing machine and the dummy head, the saturator being set at a temperature in excess of 37 °C to allow for the cooling of the air before it reaches the mouth of the dummy head. The air shall be saturated at (37 ± 2) °C at the mouth of the dummy head. In order to prevent excess water spilling out of the dummy's mouth and contaminating the particle filtering half mask the head shall be inclined so that the water runs away from the mouth and is collected in a trap. The breathing machine is brought into operation, the saturator switched on and the apparatus allowed to stabilize. The particle filtering half mask under test shall then be mounted on the dummy head. During the test time at approximately 20 min intervals the particle filtering half mask shall be completely removed from the dummy head and refitted such that during the test period it is fitted ten times to the dummy head.</p>		P
8.3.2	<p>Temperature conditioning Expose the particle filtering half masks to the following thermal cycle:</p> <p>a) for 24 h to a dry atmosphere of (70 ± 3) °C;</p>		P
	<p>b) for 24 h to a temperature of (-30 ± 3) °C;</p>		P
	<p>allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing.</p>		P
8.3.3	Mechanical strength	Conditioning shall be done in accordance with EN 143.	P
8.3.4	Flow conditioning	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
8.4	Practical performance		P

Clause	Requirement + Test	Result - Remark	Verdict
8.4.1	<p>General</p> <p>A total of 2 particle filtering half masks shall be tested: both as received.</p> <p>All tests shall be carried out by two test subjects at ambient temperature and the test temperature and humidity shall be recorded.</p> <p>Prior to the test there shall be an examination to assure that the particle filtering half mask is in good working condition and that it can be used without hazard.</p> <p>Examination shall be done in accordance with 8.2.</p> <p>For the test, persons shall be selected who are familiar with using such or similar equipment.</p> <p>During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded:</p> <p>a) head harness comfort;</p> <p>b) security of fastenings;</p> <p>c) field of vision;</p> <p>d) any other comments reported by the wearer on request.</p>		P
8.4.2	<p>Walking test</p> <p>The subjects wearing normal working clothes and wearing the particle filtering half mask shall walk at a regular rate of 6 km/h on a level course. The test shall be continuous, without removal of the particle filtering half mask, for a period of 10 min.</p>		P
8.4.3	<p>Work simulation test</p> <p>The particle filtering half mask shall be tested under conditions which can be expected during normal use. During this test the following activities shall be carried out in simulation of the practical use of the particle filtering half mask. The test shall be completed within a total working time of 20 min.</p> <p>The sequence of activities is at the discretion of the test house. The individual activities shall be arranged so that sufficient time is left for the comments prescribed.</p>		P
	<p>a) walking on the level with headroom of $(1,3 \pm 0,2)$ m for 5 min;</p> <p>BS EN 149:2001+A1:2009</p>		P
	<p>b) crawling on the level with headroom of $(0,70 \pm 0,05)$ m for 5 min;</p>		P

Clause	Requirement + Test	Result - Remark	Verdict
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8.5	Leakage		P
8.5.1	General test procedure		P
8.5.1.1	Total inward leakage A total of 10 test specimens shall be tested: 5 as received and 5 after temperature conditioning in accordance with 8.3.2. The total inward leakage shall be tested using sodium chloride aerosol. Prior to the test there shall be an examination to ensure that the particle filtering half mask is in good working condition and that it can be used without hazard. Examination shall be done in accordance with 8.2. For the test, persons shall be selected who are familiar with using such or similar equipment. A panel of ten clean-shaven persons (without beards or sideburns) shall be selected covering the spectrum of facial characteristics of typical users (excluding significant abnormalities). It is to be expected that exceptionally some persons cannot be satisfactorily fitted with a particle filtering half mask. Such exceptional subjects shall not be used for testing particle filtering half masks.		P
8.5.1.2	Test equipment The test atmosphere shall preferably enter the top of the enclosure through a flow distributor, and be directed downwards over the head of the test subject at a minimum flow rate of 0,12 m/s. The concentration of the test agent inside the effective working volume shall be checked to be homogeneous. The flow rate should be measured close to the subject's head. A level treadmill is required capable of working at 6 km/h.		P

Clause	Requirement + Test	Result - Remark	Verdict
8.5.1.3	Test procedure Ask the test subjects to read the manufacturer's fitting information and if more than one size of particle filtering half mask is manufactured, ask the test subject to select the size deemed by him to be the most appropriate. If necessary the test supervisor shall show the test subjects how to fit the particle filtering half mask correctly in accordance with the fitting information. Inform the test subjects that if they wish to adjust the particle filtering half mask during the test they may do so. However if this is done, repeat the relevant section of the test, having allowed the system to re- settle. The test subjects shall have no indication of the results as the test proceeds.		P
8.7	Carbon dioxide content of the inhalation air		P
	A total of 3 particle filtering half masks shall be tested: all 3 as received. The apparatus consists essentially of a breathing machine with solenoid valves controlled by the breathing machine, a connector, a CO 2 flowmeter and a CO 2 analyser.		P
8.8	Strength of attachment of exhalation valve housing A total of three particle filtering half masks shall be tested: one as received, one temperature conditioned in accordance with 8.3.2 and one after the test described for mechanical strength in EN 143. Mount the particle filtering half mask securely to a fixture as shown in Figure 9. Apply an axial tensile force of 10 N to the valve (housing) for 10 s, and note the results.		P
8.9	Breathing Resistance		P

DOCUMENTATION

Test data

Ambient temperature: 24 C° Relative Humidity (RH): 32%					
Sample	Items	Limits(%)	Initial filtration efficiency(%)	Loading filter efficiency(%)	Conclusion
Non- temperature conditioning samples					
#1	Filtration Efficiency	Test gas flow single filter element 095 ± 4) l / min >80	97.7	96.6	PASS
#2			97.4	97.3	PASS
#3			97.5	97.4	PASS
#4			97.5	97.2	PASS
#5			97.3	97.9	PASS
#6			97.4	97.7	PASS
Temperature conditioning samples					
#7	Filtration Efficiency	Test gas flow single filter element 095 ± 4) l / min >80	96.8	96.6	PASS
#8			96.7	96.5	PASS
#9			96.5	96.4	PASS
#10			96.4	96.3	PASS
Sample	Items	Limits(%)	Data (Pa)		Conclusion
Non- temperature conditioning samples					
#11	Inspiratory resistance	The total gas resistance of each sample should be ≤ 350Pa	107		PASS
#12			103		PASS
#13			105		PASS
#14			105		PASS
#15			104		PASS
#16			103		PASS
Temperature conditioning samples					
#17	Inspiratory resistance	The total gas resistance of each sample should be ≤ 350Pa	113		PASS
#18			110		PASS
#19			112		PASS

DOCUMENTATION

#20			115	PASS
#21			113	PASS
Non- temperature conditioning samples				
#22	Expiratory resistance	The total gas resistance of each sample should be $\leq 250\text{Pa}$	65	PASS
#23			68	PASS
#24			65	PASS
#25			67	PASS
#26			66	PASS
#27			61	PASS
Temperature conditioning samples				
#28	Expiratory resistance	The total gas resistance of each sample should be $\leq 250\text{Pa}$	85	PASS
#29			87	PASS
#30			82	PASS
#31			84	PASS
#32			82	PASS
#33			85	PASS
#34			80	PASS
Note:	Temperature conditions a) 24 hours at 38 °C and 85% b) At 70 °C for 24 hours c) 24 hours at -30 °C			

DOCUMENTATION

EC Declaration



Manufacture

Dongguan Huagang Communication Technology Co., Ltd

Address

No. 78, Jinmei Jinhe 2nd Road, Changping Town, Dongguan City, Guangdong Province, China

Description of product

Particle Filtering Half Mask

Model(s)

HG-1 FFP2

Standards used, including number, title, issue date and other relative documents

EN 149:2001 +A1:2009

Declaration :

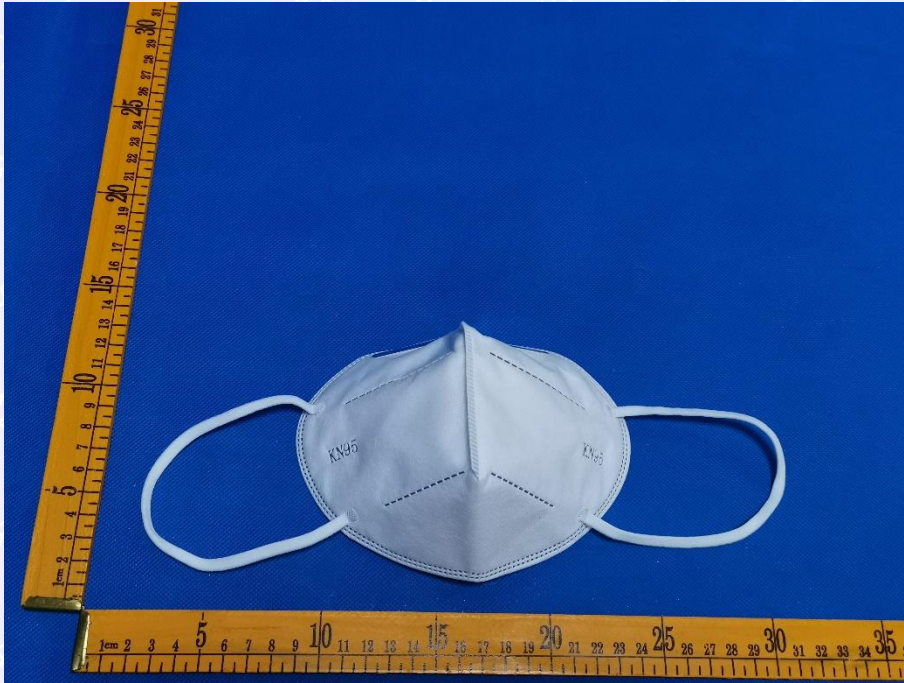
I declare that as the authorised representative, the above information in relation to the supply / manufacture of this product, is in conformity with the stated standards and other related documents following the provisions of the above Directives and their amendments.

Signature Of Manufacturers Authorized:

2020.03.27

DOCUMENTATION

Photo Documentation



1



2

End of Report

Certification of Conformity

Certificate No.: AST2003205019PPE
Reference No.: AST2003205019
Applicant: Dongguan HuaGang Communication Technology Co., Ltd.
Address: No.78 Jinheroad, Jinmei Village, Changping Town, Dongguan City, Guangdong, China.
Manufacturer: Dongguan HuaGang Communication Technology Co., Ltd.
Address: No.78 Jinheroad, Jinmei Village, Changping Town, Dongguan City, Guangdong, China.
Product: Disposable Face Mask
Model No.: KN95-A(Class of device: FFP2 NR D)

The EUT described above has been tested by us with the listed standards and found in compliance with the council Regulation (EU) 2016/425 Personal protective equipment which falls on Risk Category I.

Standards:

EN 149:2001+A1:2009

It is possible to use CE marking to demonstrate the compliance with this Personal Protective Equipment Directive. The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the above listed EU Directive(s). Other relevant Directives have to be observed.

After preparation of the necessary technical documentation as well as the conformity declaration, the CE marking as shown below can be affixed on the equipment.



Manager: _____

Date: Mar. 27, 2020

Remark: This Certification of Conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole product and relevant directives have to be observed.

Aerospace Testing Technology (Shenzhen) Co., Ltd.
3/F, Block A1, No. 5, 8th Road, Shapu Yangyong Industrial Park, Songgang Street,
Bao'an District, Shenzhen, Guangdong, China
Tel: 0755-27781492; Fax: 0755-27781492
Web.: www.ast-test.com
E-mail: ast@hangtianjc.com

检验检测报告



No: 200048957

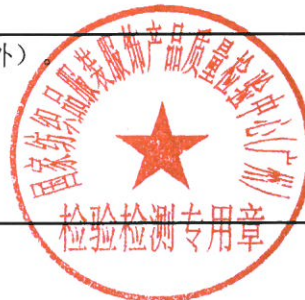
防伪查询网址: www.gttc.net.cn

防伪码: CGNF-5815-04

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委托单位	东莞市华罡通讯科技有限公司 地址: 广东省东莞市常平镇金美星河二路78号		
客户认定信息	一次性防护口罩 35个 型号: KN95-A KN95-B 等级: FFP2 生产单位: 东莞市华罡通讯科技有限公司		
检验性质	委托检测	样品受理/测试开始日期	2020-03-23
		报告签发日期	2020-03-28
判定依据	GB 2626-2006 《呼吸防护用品 自吸过滤式防颗粒物呼吸器》		
综合检验结论	---		
检验检测结果	检验检测项目	判定依据	判定
	NaCl颗粒物过滤效率	GB 2626-2006	符合
	吸气阻力	GB 2626-2006	符合
	呼气阻力	GB 2626-2006	符合
备注	本报告中检验检测项目均在相应标准规定的环境条件下进行(有注明的除外) 复印件、副本未重新加盖报告书确认章无效。 本报告检验检测地址为广州市番禺区珠江路1号。		



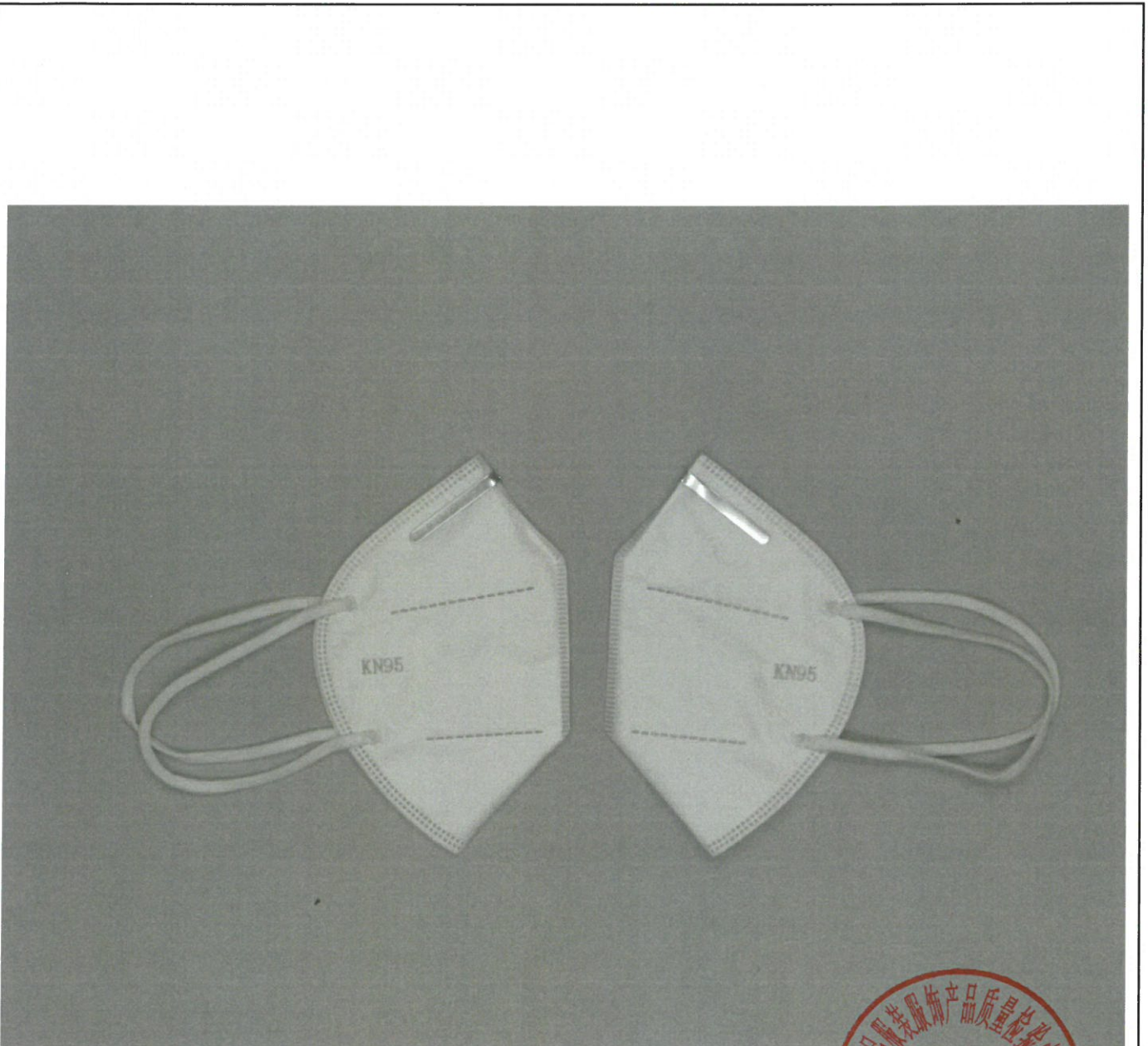
签发: 马楠 工程师

马楠

样品图片

No:200048957

共3页 第2页



检验检测报告附页

No: 200048957

共3页 第3页

检验检测项目 (计量单位) [样品识别]	测试方法	标准值及允差	检验检测结果	判定	备注
●NaCl颗粒物过滤效率	GB 2626-2006 6.3 空气流量:85L/min 气溶胶颗粒:NaCl 气溶胶浓度:15mg/m ³ 温度:23.1℃ 相对湿度:36.2%	过滤效率(%): ≥95.0 (KN95)	过滤效率(%): 未处理样品 1# 98.94 2# 99.115 3# 99.111 4# 98.86 5# 98.75 6# 99.317 7# 98.46 8# 99.158 9# 99.290 10# 98.85 温湿度预处理后样品 1# 99.105 2# 98.75 3# 98.41 4# 98.95 5# 98.92	符合	
●吸气阻力(Pa)	GB 2626-2006 6.5 头模: 中号	≤350	未处理样品: 1# 263.4 2# 253.7 预处理样品: 1# 225.3 2# 221.7	符合	
●呼气阻力(Pa)	GB 2626-2006 6.6 头模: 中号	≤250	未处理样品: 1# 205.1 2# 200.9 预处理样品: 1# 173.4 2# 169.1	符合	
备注	(本栏空白)				



——本报告结束——

TEST REPORT



No: 200051525

VERIFICATION WEBSITE: www.gttc.net.cn

VERIFICATION CODE: WJCY-3082-24



ISSUE DATE: 2020-03-28

APPLICANT: Dongguan HuaGang Communication Technology Co., Ltd.
ADDRESS: No.78 Jinheroad, Jinmei Village, Changping Town, Dongguan City, Guangdong, China.

APPLICANT PROVIDED SAMPLE DESCRIPTION:

THIRTY-FIVE (35) PIECES OF DISPOSABLE FACE MASK

MODEL(S): KN95-A KN95-B (CLASS OF DEVICE: FFP2 NR D)

MANUFACTURE'S NAME: Dongguan Huagang Communication Technology Co. Ltd

DATE RECEIVED/DATE TEST STARTED: 2020-03-26

CONCLUSION:

FILTRATION EFFICIENCY TO NaCl PARTICULATE MATTER M

INSPIRATORY RESISTANCE M

EXPIRATORY RESISTANCE M

NOTE: "M" - MEET THE STANDARD'S REQUIREMENT "F" - FAIL TO MEET THE STANDARD'S REQUIREMENT
"___" - NO COMMENT

REMARK:

THIS REPORT IS THE ENGLISH TRANSLATION VERSION OF THE REPORT 200048957.

ALL THE TESTED ITEMS ARE TESTED UNDER THE STANDARD CONDITION (EXCEPT FOR INDICATION).

COPIES OF THE REPORT ARE VALID ONLY RE-STAMPED.

THE EXPERIMENT WAS CARRIED OUT AT No. 1, ZHUJIANG ROAD, PANYU DISTRICT, GUANGZHOU, GUANGDONG, P. R. CHINA.

APPROVED BY:

Nan Ma ENGINEER

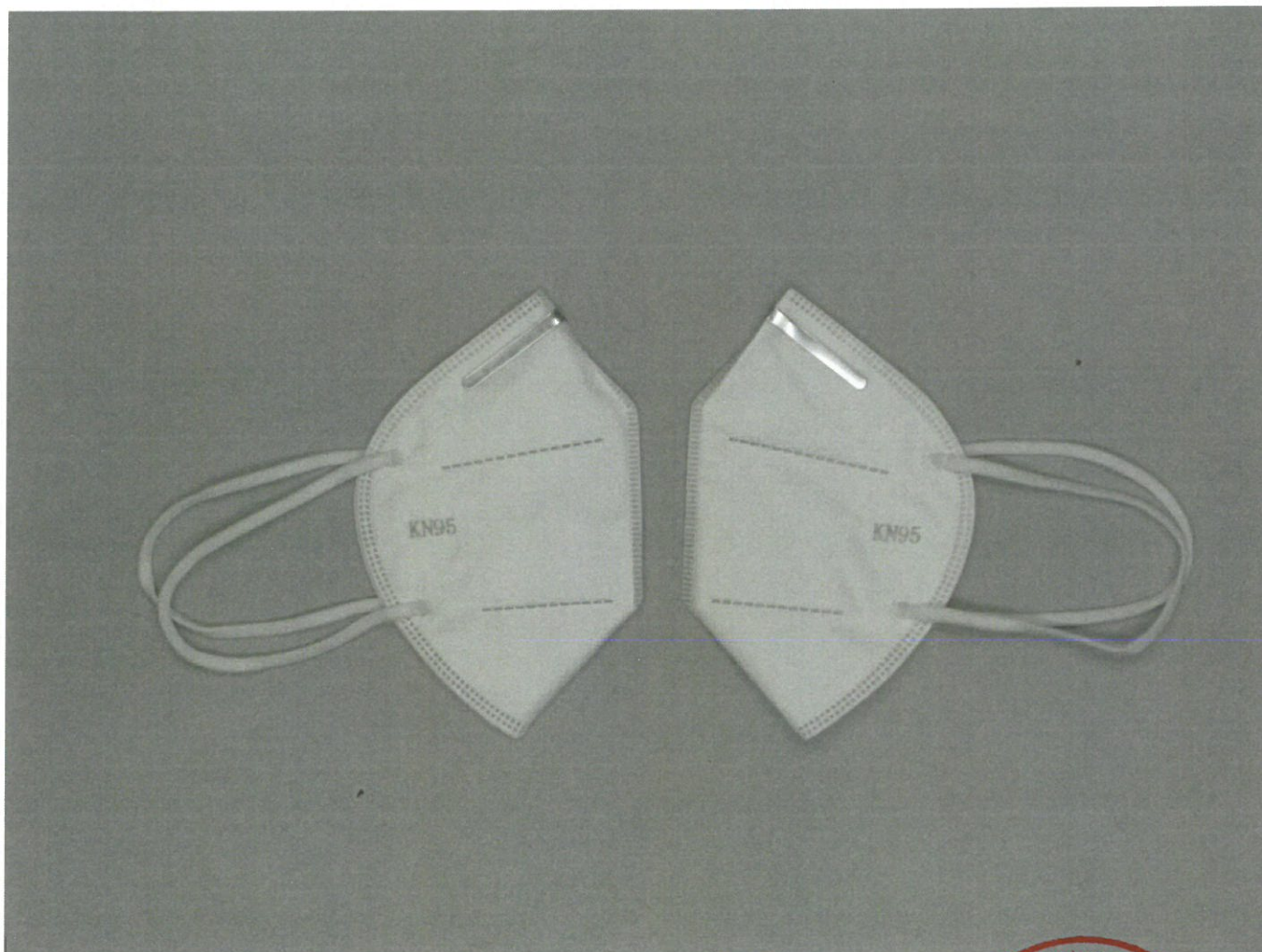
马楠



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No: 200051525

FILTRATION EFFICIENCY TO NaCl PARTICULATE MATTER

(GB 2626-2006 6.3, AIR FLOW: 85L/min, AEROSOL: NaCl, AEROSOL CONCENTRATION: 15mg/m³,
TEMP: 23.1°C, RH: 36.2%)

FILTRATION EFFICIENCY (%):

UNTREATED SAMPLE

1# 98.94
2# 99.115
3# 99.111
4# 98.86
5# 98.75
6# 99.317
7# 98.46
8# 99.158
9# 99.290
10# 98.85

CONDITIONING TREATED

1# 99.105
2# 98.75
3# 98.41
4# 98.95
5# 98.92

REQUIREMENT

FILTRATION EFFICIENCY (%):

≥ 95.0
(KN95)
(GB 2626-2006)

INSPIRATORY RESISTANCE (Pa)

(GB 2626-2006 6.5, HEAD SIZE: MEDIUM)

UNTREATED SAMPLE:

1# 263.4
2# 253.7

PRETREATMENT SAMPLE:

1# 225.3
2# 221.7

REQUIREMENT

≤ 350
(GB 2626-2006)

EXPIRATORY RESISTANCE (Pa)

(GB 2626-2006 6.6, HEAD SIZE: MEDIUM)

UNTREATED SAMPLE:

1# 205.1
2# 200.9

PRETREATMENT SAMPLE:

1# 173.4
2# 169.1

REQUIREMENT

≤ 250
(GB 2626-2006)



—End of Report—

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Certificate of Compliance



No. 0P200310.DHC0W93

Technical Construction File no. TPG020030521943

Certificate's Holder: Dongguan HuaGang Communication Technology Co., Ltd.
No.78 Jinhroad, Jinmei Village, Changping Town, Dongguan City, Guangdong, China.

Certification ECM Mark:

Product: Disposable Face Mask
Model(s): KN95-A KN95-B (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: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM, in reference to the above listed Standard(s). The above Compliance Mark can be affixed on the product(s) accordingly to the ECM regulation about its release and its use. The regulation can be found at www.entecerma.it. This Certificate of Compliance can be checked for validity at www.entecerma.it.

This verification doesn't imply assessment of the production of the product(s).

Additional information, clarification about the CE Marking:



We attest that a TCF for the CE Marking process is in place. Whereas the Manufacturer is responsible to start the CE Marking Certification Procedure through an appointed Notified Body and the perform all the necessary activities, as required by the Directive and accepted by the Notified Body, before placing the CE Mark on the product(s).

Date of Issue 10 March 2020

Expiry date 09 March 2025

Chief Manager

Maria Maria

Deputy Manager

Amanda Payne

Ente Certificazione Macchine Srl

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



The 3rd Party Certificate of
FDA Medical Device Registration

Note:

This file is Not being issued by FDA. SFT, as the 3rd party, produce it, intended to facilitate customer display & transmit information. The following contents, FDA registered Facility/Owner/Operator&FDA listing Medical Device, are excerpted from database at www.fda.gov.

Establishment:

[DONGGUAN HUAGANG COMMUNICATION TECHNOLOGY CO., LTD.](#)

No.78 jinheRoad,jinmei Village,Changping Town Dongguan Guangdong,
CHINA 523579

Registration Number / FEI Number*:

* Firm Establishment Identifier (FEI) should be used for identification of entities within the regulatory message set.

Status: **Active**

Date of Registration Status: 2020

Owner/Operator

[DONGGUAN HUAGANG COMMUNICATION TECHNOLOGY CO., LTD.](#)

No.78 jinheRoad,jinmei Village,Changping Town Dongguan Guangdong,
CHINA 523579

Owner/Operator Number: [10062778](#)

Official Correspondent

Contact Name: Yuanquan Luo

No.78 jinheRoad,jinmei Village,Changping Town Dongguan Guangdong,
CHINA 523579

Tel: + 86-755-33622851 E-mail: 645747710@qq.com

U.S. Agent

Contact Name: Grace Liu

Address: 20823 Park Row Dr, Suite 28C,Katy, Texas 77449 U.S.A

Phone: (281) 600-8227 E-mail: grace.liu@tlqa.com

Devices Listing Information

Proprietary Name	Product Codes	Device Class	Listing Number	Establishment Operations
Disposable Face Mask	LYU	1	D373853	Manufacturer
Disposable Face Mask	OEA	1	D373854	Manufacturer

Please careful protect your Listing Number.

Professional FDA Registration Services, by Shanghai Shifu Testing Service Co., Ltd.

More details on the website: <http://www.sft-lab.com>.

Need help? Contact us, SFT, at +86(021) 51300821&sales@sft-lab.com.cn

FDA CERTIFICATE NUM: [SFT20MAR006C](#)