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Certificate FI20/966015

GUANGDONG BEILUN HOUSEHOLD PAPER INDUSTRY CO., LTD.

JinWo Industrial Zone, Wangniudun Town, Dongguan, Guangdong, China.

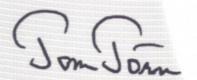
It is certified that the manufacturer's technical file and the PPE product detailed on page 2 have been assessed and found to be in accordance with

Regulation (EU) 2016/425

Module B, EU type-examination

This certificate is valid from 24 June 2020 until 24 June 2025 1. Certified since 24 June 2020

Authorised by



FINAS
Finnish Accreditation Service
S003 (EN ISO/IEC 17065)

SGS FIMKO OY, Notified Body 0598

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Certificate CN20/42123

The management system of

GUANGDONG BEILUN HOUSEHOLD PAPER INDUSTRY CO., LTD.

Jinwo Industrial Zone, Wangniudun Town, Dongguan, Guangdong, 523000, P.R. China

has been assessed and certified as meeting the requirements of

Regulation (EU) 2016/425

Module C2

For the following activities

Manufacture of HO-COMFORTTM HOC-001 white folded Particle Filtering Half Mask.

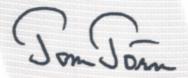
(Note: All products marked CE0598 must have a valid EU typeexamination certificate issued under Module B or a valid EC typeexamination certificate issued under Article 10 of Directive 89/686/EEC.)

This certificate is valid from 3 July 2020 and remains valid subject to satisfactory surveillance audits.

Issue 1. Certified since 3 July 2020



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Certificate FI20/966015, continued

GUANGDONG BEILUN HOUSEHOLD PAPER INDUSTRY CO., LTD.

Regulation (EU) 2016/425

Module B, EU type-examination

Issue 1

PPE Product

HO-COMFORT™ HOC-001 white folded half mask, consisting of a white four layer (polypropylene/Hot air cotton) disposable particle filtering half mask, with nose clip, and nylon/spandex ear loops.

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

The following have been applied:

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

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

Certification is based on technical file reference:

KN95-BL, Rev 1, dated: 2020-06-17.

SGS Reference Number UK/CRS 241202.

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中国认可 国际互认 检测 TESTING **CNAS L0599**

Test Report SL52035261013501TX Date: July 03,2020 Page 1 of 10

GUANGDONG BEILUN HOUSEHOLD PAPER INDUSTRY CO., LTD. JINWO INDUSTRIAL ZONE, WANGNIUDUN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

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

Sample Description (A)White folded half mask

Style No.

(A)nonwoven fabric-polypropylene, Hot air cotton, Melt sprayed cloth-Composition

polypropylene, PP+ Fe, Nylon + spandex flat ear loop

Sample Color (A)White

Manufacturer GUANGDONG BEILUN HOUSEHOLD PAPER INDUSTRY CO., LTD.

Country of Destination Germany

Test Performed Selected test(s) as requested by applicant

Sample Receiving Date Jun 19, 2020

Testing Period Jun 19, 2020 - Jul 03, 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).

Conclusion:

Sample No.	Recommendation Level		
(A)	FFP2 NR		

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

Sara Guo (Account Executive)



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Clause 7.8 Finish of Parts

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

Test Requirement	Results	Comment
Parts of the device likely to come into contact with the wearer shall have no	No sharp	Pass
sharp edges or burrs.	edges or burrs	FdSS

Clause 7.9.1 Total Inward Leakage

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

Test Requirement	Results	Comment
The total inward leakage consists of three components: face seal leakage, exhalation value leakage(if exhalation value fitted) and filter penetration. For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual exercise results (i.e. 10 subjects x 5 exercises) for total inward leakage shall be not greater than: 25% for FFP1, 11% for FFP2, 5% for FFP3 and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than: 22% for FFP1, 8% for FFP2, 2% for FFP3	Detail refer to Appendix 1	Meet FFP1, Meet FFP2

Appendix 1: Summarization of Test Data

Inward Leakage Test Data

miral a L	Jakage 100	Data						
Subject	Sample	Condition	Walk(%)	Head	Head	Talk(%)	Walk(%)	Mean(%)
	No.			Side/side(%)	up/down(%)			
Zhou	1	A.R.	5.81	7.18	6.10	5.87	7.09	6.41
Luo	2	A.R.	6.97	6.69	7.32	7.45	6.77	7.04
Lu	3	A.R.	6.61	5.82	7.35	6.51	5.53	6.36
Wang	4	A.R.	5.52	5.87	4.24	4.69	5.27	5.12
Bao	5	A.R.	6.29	7.11	7.70	7.71	6.45	7.05
Ding	6	T.C.	7.06	6.16	4.99	4.83	4.51	5.51
Li	7	T.C.	7.92	7.38	6.92	7.94	7.44	7.52
Chen	8	T.C.	5.46	4.35	5.73	6.86	5.42	5.56
Song	9	T.C.	5.87	6.83	7.08	6.13	6.96	6.57
Ye	10	T.C.	8.02	7.10	7.89	6.00	8.48	7.50

Facial Dimension(mm)

Subject	Face length	Face Width	Face Depth	Mouth Width
Chen	125	150	120	58
Lu	115	132	107	48
Zhou	115	135	106	52
Li	125	130	107	46
Luo	125	136	100	43
Zheng	128	140	112	55
Wang	120	147	103	48
Song	120	140	100	50
Bao	130	134	104	50
Ding	134	150	110	52



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Test Result

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

(EN 149:2001+A1:2009)

Clause 7.4 Packaging

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

Test Requirement	Results	Comment
Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.	Comply	Pass

Clause 7.5 Material

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

Test Requirement	Results	Comment
Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.	Comply	
After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.	Comply	Pass
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Comply	
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Comply	

Clause 7.6 Cleaning and Disinfecting

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

Test Requirement	Results	Comment
If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer. With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.	Not applicable (Not designed to be re-usable)	N.A.

Clause 7.7 Practical Performance

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

Test Requirement	Results	Comment
The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard.		Pass



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Test Re	port SL520	SL52035261013501TX		0 Page 4 of 10
Liu	120	135	117	50
Ye	126	137	105	52

Clause 7.9.2 Penetration of Filter Material

(EN 149:2001+A1:2009, Clause 8.11 & EN 13274-7:2019)

	Test Requirement				Results	Comment
	The penetration of the filter of the particle filtering half mask shall meet th					
requ	irements of	the following table.				
	Classifica	Maximum penetration	n of test aerosol			
	tion	Sodium chloride test 95	Paraffin oil test 95 l/min			10 10 10 10 10 10 10 10 10 10 10 10 10 1
		l/min			Detail refer to	Meet FFP1,
		%	%		Appendix 2	Meet FFP2
		max.	max.			
	FFP1	20	20			
	FFP2	6	6			
	FFP3	1	1			

Appendix 2: Summarization of Test Data

Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)
		1	0.324
	As received	2	0.423
		3	0.378
		4	0.412
Sodium chloride test	Simulated wearing treatment	5	0.364
		6	0.373
	Machanical strength (Tomporature	7	0.723
	Mechanical strength +Temperature conditioned	8	0.694
	conditioned	9	0.747
		10	1.786
	As received	11	2.023
		12	1.864
		13	1.924
Paraffin oil test	Simulated wearing treatment	14	1.806
	_	15	1.824
	Machanical atraneth (Tomperature	16	2.348
	Mechanical strength +Temperature	17	2.674
	conditioned	18	2.670
	conditioned Flow conditioning : Single fil	18	



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Clause 7.10 Compatibility with Skin

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

Test Requirement	Results	Comment
Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.	No irritation or any other adverse effect to health	Pass

Clause 7.11 Flammability

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

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

Appendix 3: Summarization of Test Data

Flammability

Condition	Sample No.	Result
	1	NIL
As received	2	NIL
	3	NIL
Temperature conditioned	4	NIL

Clause 7.12 Carbon Dioxide Content of The Inhalation Air

(EN 149:2001+A1:2009, Clause 8.7)

Test Requirement	Results	Comment
The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume)	Detail refer to Appendix 4	Pass

Appendix 4: Summarization of Test Data

Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Result(%)				
	1	0.4749				
As received	2	0.4735	Mean value:0.47			
	3	0.4742				



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Clause 7.13 Head Harness

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

Test Requirement	Results	Comment
The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.	Comply	
The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.	Comply	Pass

Clause 7.14 Field of Vision

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

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

Clause 7.15 Exhalation Valve(s)

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

Test Requirement	Results	Comment
(a) A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	Not applicable due to No exhalation valve	
(b) If an exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device that may be necessary for the particle filtering half mask to comply with 7.9.	Not applicable due to No exhalation valve	N.A.
(c) Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.	Not applicable due to No exhalation valve	
(d) When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10N applied for 10 s.	Not applicable due to No exhalation valve	



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Clause 7.16 Breathing Resistance

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

	Test	Results	Comment			
The penetration requirements of		the particle filtering able.) half mask shall m	eet the		
Classification		um permitted resista nalation	Detail refer to	Meet FFP1, Meet FFP2,		
	30 l/min	95 I/min	160 l/min		Appendix 5	Meet FFP3
FFP1	0.6	2.1	3.0			
FFP2	0.7	2.4	3.0			
FFP3	1.0	3.0	3.0			

Appendix 5: Summarization of Test Data

Breathing resistance (mbar)

	FI				1			2				3					
	Flow rate(l/	min)	Α	В	С	D	Е	Α	В	С	D	E	Α	В	С	D	E
As received	Inhalation	30	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.3
	milalation	95	0.7	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.8	0.7
	Exhalation	160	1.9	2.1	2.0	2.1	1.9	2.0	2.1	1.9	1.9	2.0	2.1	1.9	2.0	2.1	2.1
	F11-(1/i-)				4					5			6				
Simulated	Flow rate(l/	min)	Α	В	С	D	E	Α	В	С	D	E	Α	В	С	D	Е
wearing	Inhalation	30	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3
treatment	9	95	0.8	0.7	0.8	0.8	0.7	0.8	0.7	0.7	0.8	0.8	0.7	0.8	0.7	0.8	0.7
	Exhalation	160	2.0	2.1	2.0	1.9	2.0	2.1	2.1	2.0	2.1	2.1	2.0	2.0	2.1	1.9	2.0
	Floring to (1	/:-\			7					8			9				
	Flow rate(l/	min)	Α	В	С	D	E	Α	В	С	D	E	Α	В	С	D	E
Temperature conditioned	Inhalation	30	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.3
	IIIIaiation	95	0.7	0.8	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.7	0.8	0.7	0.8
	Exhalation	160	1.8	2.0	1.9	1.9	2.0	1.8	1.8	2.0	1.9	2.0	1.9	1.8	1.9	1.8	2.0

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



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Clause 7.17 Clogging

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

	Test Requirement		Results	Comment
Valved particle fil After clogging the FFP1: 4 mbar, Ff The exhalation reflow. Valveless particle After clogging the	eathing resistance tering half masks: e inhalation resistances shall not FP2: 5 mbar, FFP3: 7 mbar at 95 esistance shall not exceed 3 mb e filtering half masks: e inhalation and exhalation resist FP2: 4 mbar, FFP3: 5 mbar at 95	Optional for single shift device only	N.A.	
Clause 7.17.3 Pe All types (valved	metration of filter material and valveless) of particle filter grequirement shall also meet th Maximum penetration Sodium chloride test 95 l/min % max. 20 6	Optional for single shift device only	N.A.	

Clause 7.18 Demountable Parts

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

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

Test	Uncertainty
Total inward leakage	3.4%
Penetration of filter material	4.8%
Carbon dioxide content of the inhalation air	3.9%
Breathing resistance (30L/min)	5.9%
Breathing resistance (95L/min)	4.9%
Breathing resistance (160L/min)	4.3%



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Sample Photo







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