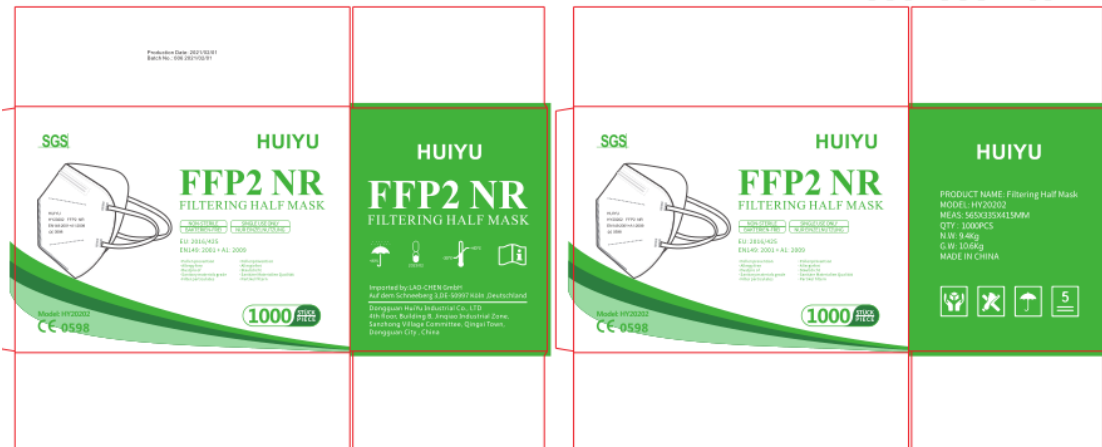








565-335-415



Certificate of approval Konformitätsbescheinigung

Product name: Filtering half mask
Produktname: FFP2 Filter Halbmaske

Model: HY20202
Modell: HY20202

Production batch No: EN149:2001+A1:2009 FFP2 NR
Executive Standard: EN149:2001+A1:2009 FFP2 NR

Product specification: Nonwovens, Melt Blown, Hot Air Cotton
Produktspezifikation: Vliesstoffe, schmelzgeblasen,
Heißluftbaumwolle

Main ingredients: 42.8% non-woven fabric,
28.6% hot air cotton,
28.6% melt blown fabric

Hauptzutaten: 42,8% Vliesstoff,
28,6% Heißluftbaumwolle,
28,6% schmelzgeblasener Stoff

Batch No./Date: 006 20210201
Produktionscharge/Datum: 006 20210201

Period of validity: 2 Years
Gültigkeitsdauer: 2 Jahre

Inspector: 02 Quantity: 20
Inspektor: 02 Menge: 20

Manufacturer: Dongguan HuiYu Industrial Co., LTD
Hersteller: Dongguan HuiYu Industrial Co., LTD



EU DECLARATION OF CONFORMITY

Manufacturer
Name: Dongguan HuiYu industrial co., LTD
Address: 4th floor, building B, Jinqiao Industrial Zone, Sanzhong village committee, Qingxi Town, Dongguan City ,China 523651

declares that the new PPE described hereafter
Product name: (A)Protective Mask
Model: HY20202 is in conformity with the provisions of FFP2 NR of the Regulation (EU)2017/745 Personal Protective Equipment and meet the requirements of EN 149 standard/issued by is identical to the PPE which is the subject of EU certification of conformity EN149:2001+A1:2009 issued by SGS FIMKO OY

Takomotte 8
 00380 HELSINKI
 Country: Finland
 Notified Body No.0598

is subject to the procedure set-out in Module FFP2 NR of Regulation MDR(EU)2017/745 Personal Protective Equipment under the supervision of the notified body SGS FIMKO OY, Takomotte 8, 00380 HELSINKI, Country: Finland. Notified Body No:0598.

Done at Place, Date
 May 20th 2020

Authorized signature(s) Name
 _____ _____
 On behalf of Company

Certificate F20966862

Dongguan HuiYu Industrial Co., Ltd.

Building B, Jinqiao Industrial Zone,
Sanzhong Village Committee,
Qingxi Town, Dongguan City,
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 13 October 2020 until 13 October 2025
1. Certified since 13 October 2020

Authorized by

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

SGS FIMKO OY, Notified Body 0598
Takomotte 8, FI-00380, Helsinki, Finland
 +358 9 696 301 | +358 9 692 8420 | www.sgs.com

Page 1 of 2

This document is issued by the Company subject to its General Conditions of Certification which are available on its website. The information and professional services provided herein are intended for the use of the client only. The information and professional services provided herein are not intended to be used for any other purpose. The information and professional services provided herein are not intended to be used for any other purpose. The information and professional services provided herein are not intended to be used for any other purpose.

Certificate F20966862, continued

Dongguan HuiYu Industrial Co., Ltd.

Regulation (EU) 2016/425

Module B, EU type-examination

Issue 1
PPE Product

HUIYU (Hog) HY20202 particle filtering half mask, consisting of a five layer (Polypropylene) disposable face mask, with Polypropylene covered aluminum nose clip and Nylon/spandex ear loop.

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.

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

This certificate is issued on 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:
 HY20202, Dated 28.08.2020

SGS Reference Number UKVCRS 242024

This certificate remains the property of SGS Finko Oy to which it must be returned on request.

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中国认可
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检测
TESTING
CNAS L0599

Test Report SL52035261315701TX Date: June 24, 2020 Page 1 of 9

DONGGUAN HUIYU INDUSTRIAL CO., LTD
BUILDING B, JINQIAO INDUSTRIAL ZONE, SANZHONG VILLAGE COMMITTEE, QINGXI TOWN,
DONGGUAN CITY

THIS REPORT CANCELS AND SUPERSEDES THE TEST REPORT NO.SL52025266838201TX DATE: 2020-06-20 ISSUED BY SGS (Shanghai)
UPDATED SAMPLE INFORMATION.

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

Sample Description : (A)Protective Mask
Claimed : FFP2
Style No. : HY20202
Sample Color : (A)White
Manufacturer : DONGGUAN HUIYU INDUSTRIAL CO., LTD
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : May 08, 2020
Testing Period : May 18, 2020 - Jun 20, 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:	Recommendation Level
(A)	FFP2-NR

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

Sara Guo

Sara Guo (Account Executive)



Test Report SL52035261315701TX Date: June 24, 2020 Page 2 of 9

Test Result

Personal Protective Equipment - 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	Pass
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	
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.	No imperfections	Pass



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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 sharp edges or burrs.	No sharp edges or burrs	Pass

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 valve 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	Pass

Appendix 1: Summarization of Test Data

Subject	Sample No.	Condition	Wak(%)	Head Side(seal)(%)	Head up/down(%)	Talk(%)	Wak(%)	Mean(%)
Zhou	1	A.R.	6.91	6.97	5.83	5.23	5.70	6.14
Luo	2	A.R.	6.86	7.30	5.71	7.71	8.16	7.15
Liu	3	A.R.	5.02	6.50	6.54	6.99	5.98	6.21
Wang	4	A.R.	5.48	5.58	6.24	5.78	4.64	5.54
Bao	5	A.R.	6.90	7.07	6.37	8.27	7.41	7.20
Ding	6	T.C.	6.24	5.48	5.37	4.94	5.78	5.56
Li	7	T.C.	7.40	7.40	7.46	7.09	7.36	7.39
Chen	8	T.C.	5.29	5.68	5.33	5.27	5.40	5.39
Song	9	T.C.	6.78	4.60	7.34	7.23	5.91	6.37
Ye	10	T.C.	6.22	8.47	6.64	7.79	8.84	7.59

Facial Dimension(mm)

Subject	Face length	Face Width	Face Depth	Mouth Width
Chen	125	120	100	58
Li	115	132	107	48
Zhou	115	135	106	52
Li	125	130	107	46
Luo	125	136	100	43
Zheng	126	140	112	55
Wang	120	147	103	49
Song	120	140	100	50
Bao	130	134	104	50
Ding	134	150	110	52



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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 the requirements of the following table.		Pass	
Classification	Maximum penetration of test aerosol		Detail refer to Appendix 2
Sodium chloride test 95	Paraffin oil test 95 l/min		
% min	% max.		
FFP1	20	20	
FFP2	5	5	
FFP3	1	1	

Appendix 2: Summarization of Test Data

Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)	
Sodium chloride test	As received	1	0.396	
		2	0.363	
		3	0.344	
	Simulated wearing treatment	4	0.385	
		5	0.381	
		6	0.349	
		Mechanical strength + Temperature conditioned	7	0.376
			8	0.342
			9	0.517
Paraffin oil test	As received	10	1.953	
		11	2.143	
		12	1.925	
	Simulated wearing treatment	13	2.047	
		14	2.425	
		Mechanical strength + Temperature conditioned	15	2.341
			16	3.742
			17	3.793
		18	3.808	

Flow conditioning : Single filter: 95.0 L/min





Clause 7.10 Compatibility with Skin (EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Table with 3 columns: Test Requirement, Results, Comment. Requirement: 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. Results: No irritation or any other adverse effect to health. Comment: Pass

Clause 7.11 Flammability (EN 149:2001+A1:2009, Clause 8.6)

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

Appendix 3: Summarization of Test Data Flammability

Table with 3 columns: Condition, Sample No., Result. Rows: As received (1, 2), Temperature conditioned (3, 4). Results: NIL

Clause 7.12 Carbon Dioxide Content of The Inhalation Air (EN 149:2001+A1:2009, Clause 8.7)

Table with 3 columns: Test Requirement, Results, Comment. Requirement: The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0 % (by volume). Results: Detail refer to Appendix 4. Comment: Pass

Appendix 4: Summarization of Test Data Carbon Dioxide Content of The Inhalation Air

Table with 3 columns: Condition, Sample No., Result(%). Rows: As received (1, 2, 3). Results: 0.4710, 0.4722, 0.4708. Mean value: 0.47

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Clause 7.13 Head Harness (EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Table with 3 columns: Test Requirement, Results, Comment. Requirement: The head harness shall be designed so that the particle filtering half mask can be donned and removed easily. Results: Comply. Comment: Pass

Clause 7.14 Field of Vision (EN 149:2001+A1:2009, Clause 8.4)

Table with 3 columns: Test Requirement, Results, Comment. Requirement: The field of vision is acceptable if determined so in practical performance tests. Results: Comply. Comment: Pass

Clause 7.15 Exhalation Valve(s) (EN 149:2001+A1:2009, Clause 8.2 & 8.9.1 & 8.3.4 & 8.8)

Table with 3 columns: Test Requirement, Results, Comment. Requirements (a-d) regarding exhalation valve function, protection, flow, and tensile force. Results: Not applicable due to No exhalation valve. Comment: N.A.

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Clause 7.16 Breathing Resistance (EN 149:2001+A1:2009, Clause 8.9)

Table with 3 columns: Test Requirement, Results, Comment. Requirement: The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table. Results: Detail refer to Appendix 5. Comment: Pass

Appendix 5: Summarization of Test Data Breathing resistance (mbar)

Large table showing breathing resistance data for As received, Simulated wearing treatment, and Temperature conditioned conditions across various flow rates and test methods.

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)

Table with 3 columns: Test Requirement, Results, Comment. Requirements for clogging of valveless particle filtering half masks. Results: Optional for single shift device only. Comment: N.A.

Clause 7.18 Demountable Parts (EN 149:2001+A1:2009, Clause 8.2)

Table with 3 columns: Test Requirement, Results, Comment. Requirement: All demountable parts (if fitted) shall be readily connected and secured, where possible by hand. Results: No demountable parts. Comment: N.A.

Table with 2 columns: Test, Uncertainty. Rows: 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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