

Certificate CN20/42499

The management system of

# Guangdong RUIHUI Intelligent Technology Co, Ltd.

No.12, Chuangxing Road, Baisha,  
Humen Town, Dongguan,  
Guangdong,  
China

has been assessed and certified as meeting the requirements of

## Regulation (EU) 2016/425

Module C2

For the following activities

**Manufacture of RUIMA (logo) R-KNFM501 particle filtering half mask.**  
**(Note: All products marked CE0598 must have a valid EU type-examination certificate issued under Module B or a valid EC type-examination certificate issued under Article 10 of Directive 89/686/EEC.)**

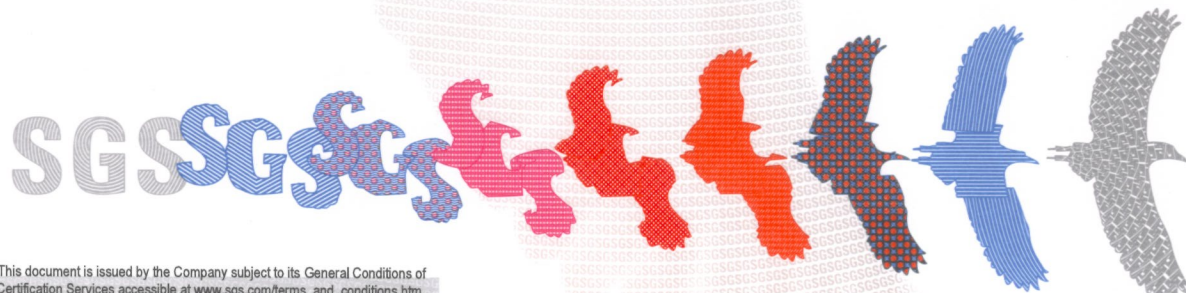
This certificate is valid from 7 November 2020  
and remains valid subject to satisfactory surveillance audits.  
Issue 1. Certified since 7 November 2020

Authorised by


SGS FIMKO OY, Notified Body 0598

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RUIMA FFP2 NR  
R-KNFM501  
EN149:2001+A1:2009  
CE0598

GUANGDONG RUIHUI INTELLIGENT TECHNOLOGY CO., LTD.  
NO.12, CHUANGXING ROAD, BAISHA, HUMEN TOWN, DONGGUAN, GUANGDONG, CHINA  
**THIS REPORT CANCELS AND SUPERSEDES THE TEST REPORT NO.SL52035274064101TX DATE: 2020-08-13 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)Particle Filtering half mask

Sample Color : (A)WHITE

Composition : (A)40%NON-WOVEN FABRIC 40%MELT-BLOWN FABRIC 20%CLOSE SKIN SPONGE

Style No. : R-KNFM501

Manufacturer : GUANGDONG RUIHUI INTELLIGENT TECHNOLOGY CO., LTD.

Country of Destination : EUROPE

Previous No. : SL52035297919001TX

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Jul 24, 2020

Testing Period : Jul 24, 2020 - Aug 13, 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).

Based on the results of the tests reported and the previous report SL52035297919001TX issued on Sep 10, 2020, our Lab concluded that the recommendation level can be as below.

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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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 7.7 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

**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

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**Clause 7.9.1 Total Inward Leakage**

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

Test Requirement	Results	Comment
<p>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</p> <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: 22% for FFP1, 8% for FFP2, 2% for FFP3</p>	Detail refer to Appendix 1	Meet FFP1, Meet FFP2

**Appendix 1: Summarization of Test Data**

Inward Leakage Test Data

Subject	Sample No.	Condition	Walk(%)	Head Side/side(%)	Head up/down(%)	Talk(%)	Walk(%)	Mean(%)
Zhou	1	A.R.	5.82	6.17	7.14	5.82	5.42	6.07
Luo	2	A.R.	7.50	6.80	7.01	8.09	5.83	7.05
Lu	3	A.R.	5.31	7.25	7.18	5.42	5.11	6.05
Wang	4	A.R.	4.96	5.78	5.64	6.64	4.16	5.44
Bao	5	A.R.	8.07	6.79	7.00	6.45	7.19	7.10
Ding	6	T.C.	5.33	5.08	5.15	6.03	6.73	5.66
Li	7	T.C.	7.36	6.85	7.57	7.46	7.48	7.34
Chen	8	T.C.	5.62	6.21	5.93	5.13	5.33	5.64
Song	9	T.C.	7.59	5.76	6.22	6.59	5.77	6.39
Ye	10	T.C.	8.52	6.16	8.72	6.74	7.23	7.47

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
Liu	120	135	117	50
Ye	126	137	105	52

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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	Pass
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	

**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 7.18 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	Comply	Pass

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%

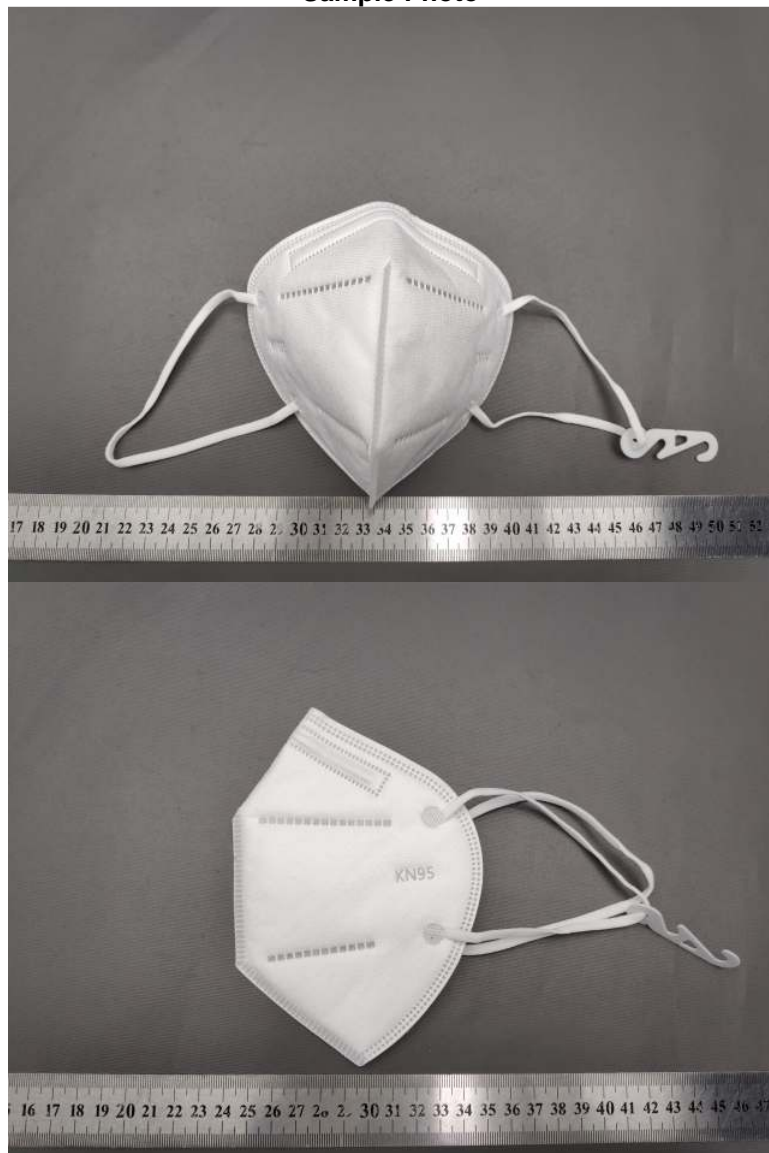


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### Sample Photo

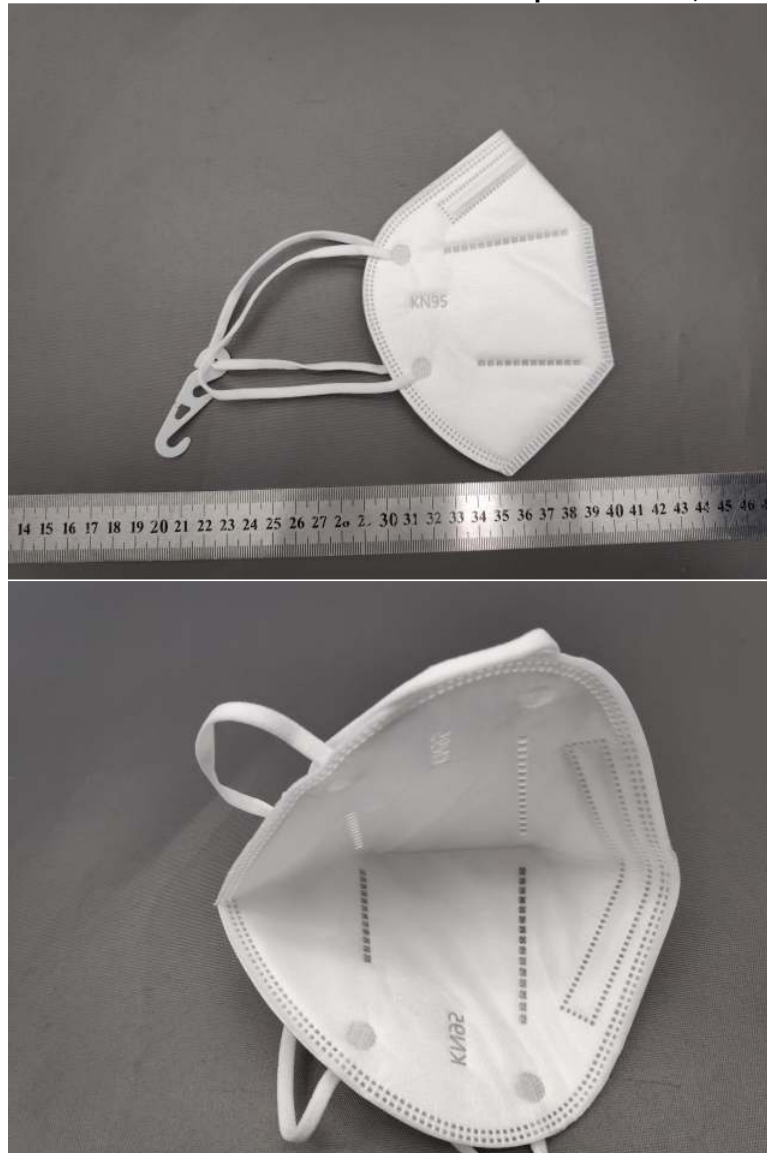


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\*\*\*End of Report\*\*\*



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