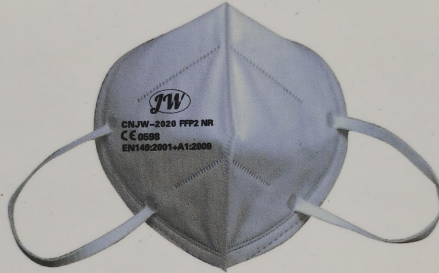




## Partikel-filtrierende Atemschutzmaske

**FFP2 NR**  
Verordnung(EU)2016/425  
Nicht-medizinisch



- Einstellbarer Nasenclip
- einstellbarer Nasenclip
  - bessere Dichtheit
  - geringer Atemwiderstand
  - umfassender Schutz
- EN 149:2001+A1:2009 FFP2 NR

6  
pcs

CE 0598

## Atemschutzmaske

### Benutzeranleitung:

Die Nichtbeachtung der Anweisungen und Warnungen zur Verwendung dieser Maske kann die Wirksamkeit der Maske beeinträchtigen.

Vor dem Gebrauch sollte stets überprüft werden, ob sich die Maske in einem einwandfreien Zustand befindet und diese keine Verschmutzungen oder Beschädigungen aufweist.

### Einschränkungen:

Verwenden Sie unter folgenden Umständen die Atemschutzmaske nicht bzw.

halten Sie sich von kontaminierten Bereichen fern:

- A: die Raumluft enthält weniger als 19.5% Sauerstoff
- B: Sie riechen oder schmecken Verunreinigungen
- C: zum Schutz vor Gasen oder Dämpfen
- D: Verschmutzungen oder deren Konzentrationen sind unbekannt oder unmittelbar lebens- und gesundheitsgefährdend
- E: zum Sandstrahlen, Sprühen und zur Asbestbehandlung
- F: In explosionsgefährdeten Bereichen

### Warnungen:

1. Die mit „NR“ gekennzeichnete Maske darf nicht länger als eine Schicht verwendet werden.
2. Ersetzen oder ändern Sie niemals Teile in der vom Hersteller produzierten Maske. Auch vom Hinzufügen sämtlicher Teile ist abzusehen.
3. Diese Maske schützt vor der Übertragung von bestimmten Partikeln, schließt jedoch das Risiko einer Krankheit oder Infektion nicht vollständig aus.
4. Wenn das Gesichtshaar unter der Gesichtversegelung verläuft, kann die Maske nicht den gewünschten Schutz bieten.
5. Wechseln Sie die Maske sofort, wenn Ihnen das Atmen schwer fällt, die Maske beschädigt oder verrutscht ist.
6. Wechseln Sie die Maske, wenn keine ordnungsgemäße Abdichtung erreicht werden kann.

### Lagerung:

1. Bewahren Sie die Maske in einem verschlossenen Behälter auf, wenn Sie diese nicht verwenden.
2. Bewahren Sie die Maske während des Transports in der Originalverpackung auf.

Adresse: No.39-40,Xiangdong Village,Qianku Town,Cangnan County,Wenzhou City,  
Zhejiang Province CHINA  
Hersteller:Cangnan County Jewel Bag Making Factory  
Tel:0577-65486858

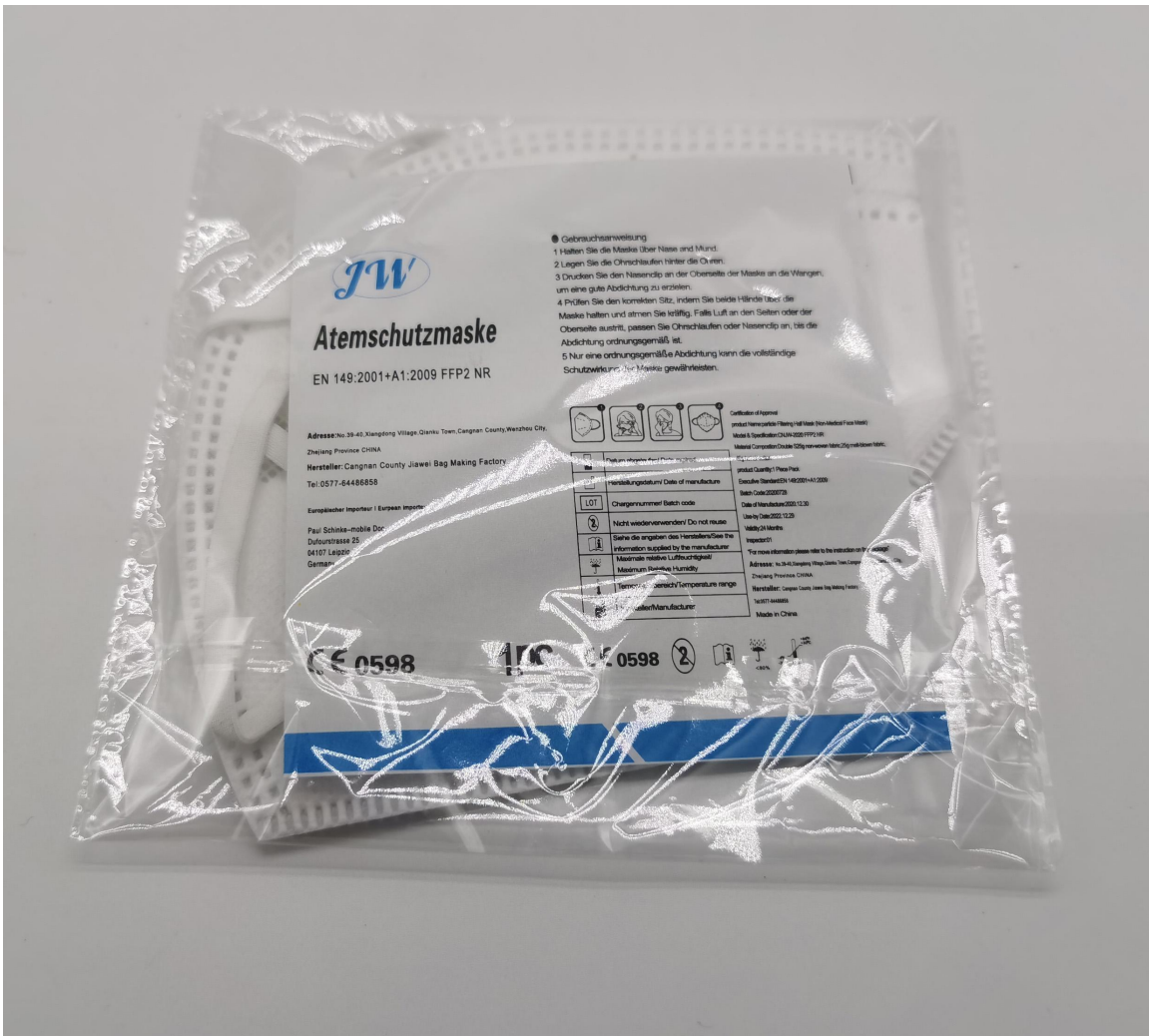
Europäischer Importeur / European Importer:

Paul Bohlske—mobile Doc.  
Dulauerstrasse 25  
04107 Leipzig  
Germany







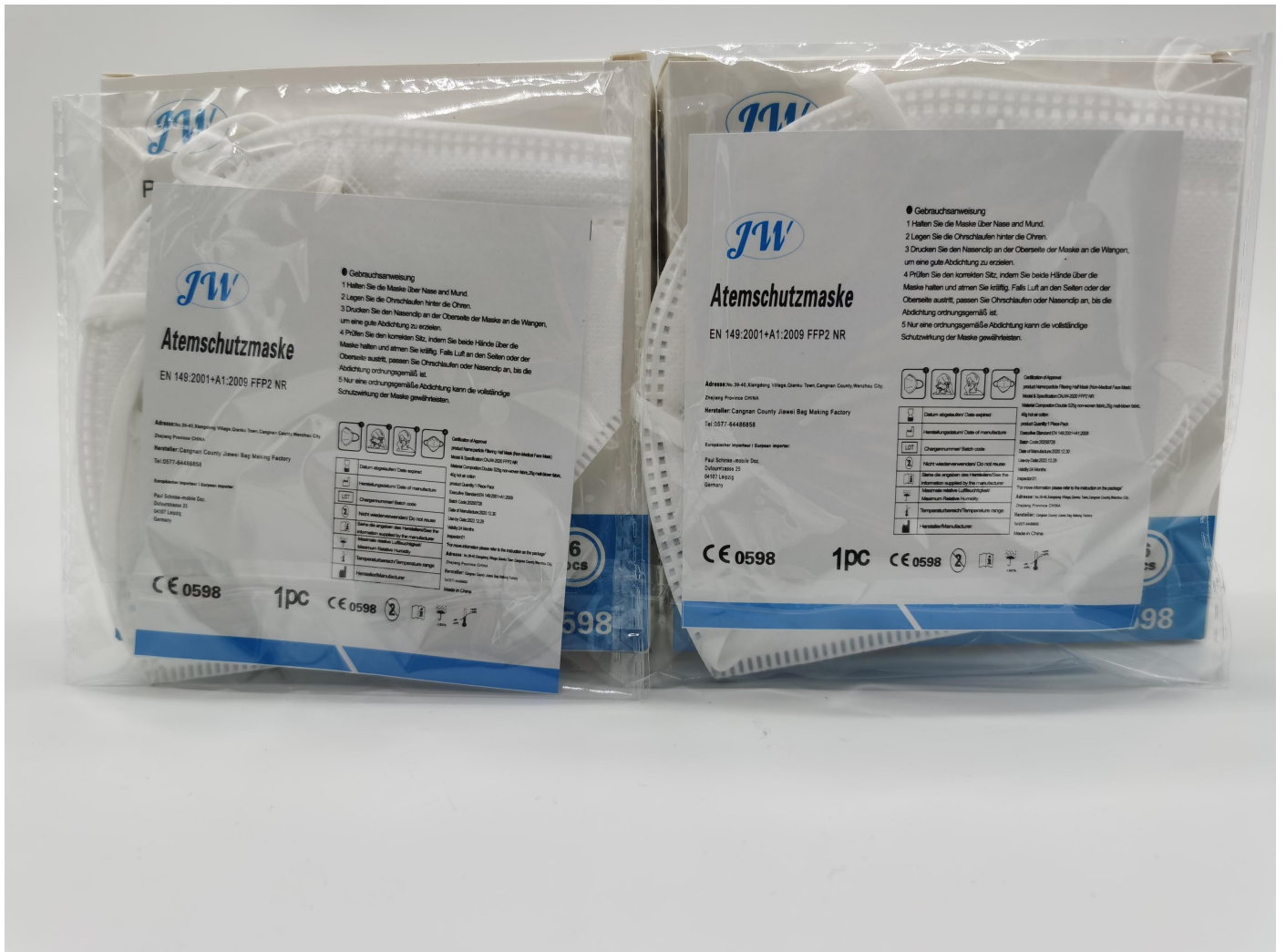














# Partikel-filtrierende Atemschutzmaske

**FFP2 NR**

Verordnung(EU)2016/425

Nicht-medizinisch



- Einstellbarer Nasenclip
- einstellbarer Nasenclip
- bessere Dichtheit
- geringer Atemwiderstand
- umfassender Schutz

**6 pcs**  
**CE 0598**



## Atemschutzmaske

EN 149:2001+A1:2009 FFP2 NR

Address: No. 39-40, Xiangyin 1 Village, Gaokou 7, Zhusheng County, Wenzhou City, Zhejiang Province, China

Hersteller: Cao Jian Co., Ltd. Bag Making Factory

Tel: 0577-87188588

European importer: J. Kasper Import

Paul Kasper GmbH

Dobruhlstrasse 25

54507 Lengven

Germany

- Gebrauchsanweisung:
  - 1 Halten Sie die Maske über Nase und Mund.
  - 2 Locken Sie die Ohrschlaufen hinter die Ohren.
  - 3 Locken Sie den Nasenclip an der Oberseite der Maske an den Nasenrücken für eine gute Abdichtung zu erzeugen.
  - 4 Hülfen Sie den korrekten Sitz, indem Sie beide Hände über die Maske halten und atmen Sie kräftig. Falls Luft an den Seiten oder der Oberseite austritt, passen Sie Ohrschlaufen oder Nasenclip an, bis die Abdichtung ordnungsgemäß ist.
  - 5 Nur eine ordnungsgemäße Abdichtung kann die vollständige Schutzwirkung der Maske gewährleisten.

	Herstellerangaben/Date supplied		Certificate of Approval
	Herstellerangaben/Date of manufacture		Herstellerangaben/Date of Approval
	CE Kennzeichen/CE mark		Herstellerangaben/Date of Approval
	CE Kennzeichen/CE mark		Herstellerangaben/Date of Approval
	CE Kennzeichen/CE mark		Herstellerangaben/Date of Approval
	CE Kennzeichen/CE mark		Herstellerangaben/Date of Approval
	CE Kennzeichen/CE mark		Herstellerangaben/Date of Approval
	CE Kennzeichen/CE mark		Herstellerangaben/Date of Approval

CE 0598

1pc

CE 0598

2

1



**JW**

**Partikel-filtrierende Atemschutzmaske**

**FFP2 NR**

Verordnung (EU) 2016/425

Nicht-medizinisch



FFP2 NR  
Verordnung (EU) 2016/425  
Nicht-medizinisch  
CE 001346



# Atemschutzmaske

### Benutzeranleitung:

Die Nichtbeachtung der Anweisungen und Warnungen zur Verwendung dieser Maske kann die Wirksamkeit der Maske beeinträchtigen.

Vor dem Gebrauch sollte stets überprüft werden, ob sich die Maske in einem einwandfreien Zustand befindet und diese keine Verschmutzungen oder Beschädigungen aufweist.

### Einschränkungen:

Verwenden Sie unter folgenden Umständen die Atemschutzmaske nicht bzw. halten Sie sich von kontaminierten Bereichen fern:

A: die Raumluft enthält weniger als 19,5% Sauerstoff

B: Sie riechen oder schmecken Verunreinigungen

C: zum Schutz vor Gasen oder Dämpfen

D: Verschmutzungen oder deren Konzentrationen sind unbekannt oder unmittelbar lebens- und gesundheitsgefährdend

E: zum Sandstrahlen, Sprühen und zur Asbestbehandlung

F: in explosionsgefährdeten Bereichen

### Warnungen:

1. Die mit „NR“ gekennzeichnete Maske darf nicht länger als eine Schicht verwendet werden.

2. Ersetzen oder ändern Sie niemals Teile in der vom Hersteller produzierten Maske. Auch vom Hinzufügen sämtlicher Teile ist abzuhehen.

3. Diese Maske schützt vor der Übertragung von bestimmten Partikeln, schließt Bt jedoch das Risiko einer Krankheit oder Infektion nicht vollständig aus.

4. Wenn das Gesichtshaar unter der Gesichtsveriegelung verläuft, kann die Maske nicht den gewünschten Schutz bieten.

5. Wechseln Sie die Maske sofort, wenn Ihnen das Atmen schwer fällt, die Maske beschädigt oder verunreinigt ist.

6. Wechseln Sie die Maske, wenn keine ordnungsgemäße Abdichtung erreicht werden kann.

Lagerung:

1. Bewahren Sie die Maske in einem verschlossenen Behälter auf, wenn Sie diese nicht verwenden.

2. Bewahren Sie die Maske während des Transports in der Originalverpackung auf.

Adresse: No.3940, Xiangdong Village, Qianxi Town, Cangnan County, Wenzhou City, Zhejiang Province, CHINA

Hersteller: Cangnan County Jiwel Bag Making Factory

Tel: 0577-66486859

### Europäischer Importeur / European Importer:

Paul Schicko - eotech Dec.

Döhrenstrasse 19

04107 Leipzig

Germany



# FFP2 NR CE 0598



## Partikel-filtrierende Atemschutzmaske

### FFP2 NR

### Verordnung(EU)2016/425

### Nicht-medizinisch



### Einstellbarer Nasenclip

einstellbarer Nasenclip

bessere Dichtheit

geringer Atemwiderstand

umfassender Schutz

EN 149:2001+A1:2009 FFP2 NR

6 pcs

# CE 0598



2020.12.30



2022.12.29

LOT

20201230



1. Die Maske muss richtig aufgesetzt werden. Bitte prüfen Sie die Abdichtung.



2. Die Nasenklammer muss ordnungsgemäß angeschlossen sein. Bitte prüfen Sie die Abdichtung.



3. Die Maske muss richtig aufgesetzt werden. Bitte prüfen Sie die Abdichtung.



4. Die Maske muss richtig aufgesetzt werden. Bitte prüfen Sie die Abdichtung.



# Atemschutzmaske

EN 149:2001+A1:2009 FFP2 NR

Adresse: No.39-40, Xiangdong Village, Qianke Town, Cangnan County, Wenzhou City, Zhejiang Province CHINA

Hersteller: Cangnan County Jiawei Bag Making Factory

Tel: 0577-64486858

Europäischer Importeur / European importer:

Paul Schirke-möbte Doc.  
Dufurstrasse 25  
04107 Leipzig  
Germany

## ● Gebrauchsanweisung

- 1 Halten Sie die Maske über Nase und Mund.
- 2 Legen Sie die Ohrschlaufen hinter die Ohren.
- 3 Drücken Sie den Nasenclip an der Oberseite der Maske an die Wangen, um eine gute Abdichtung zu erzielen.
- 4 Prüfen Sie den korrekten Sitz, indem Sie beide Hände über die Maske halten und atmen Sie kräftig. Falls Luft an den Seiten oder der Oberseite austritt, passen Sie Ohrschlaufen oder Nasenclip an, bis die Abdichtung ordnungsgemäß ist.
- 5 Nur eine ordnungsgemäße Abdichtung kann die vollständige Schutzwirkung der Maske gewährleisten.



	Datum abgelaufen/ Date expired
	Herstellungsdatum/ Date of manufacture
	Chargennummer/ Batch code
	Nicht wiederverwenden/ Do not reuse
	Siehe die Angaben des Herstellers/See the information supplied by the manufacturer
	Maximale relative Luftfeuchtigkeit/ Maximum Relative Humidity
	Temperaturbereich/ Temperature range
	Hersteller/Manufacturer

Certification of Approval  
 product Name: active Filtrating Half Mask (Non-Medical Face Mask)  
 Model A Specification: CNJW-2020 FFP2 NR  
 Material Composition: Double S25 Synthetic woven fabric, 25% meltblown fabric, 40% hot air cotton  
 product Quantity: 1 Piece/Pack  
 Executive Standard: EN 149:2001+A1:2009  
 Batch Code: 20200720  
 Date of Manufacture: 2020.02.20  
 Use-by Date: 2022.02.20  
 Validity: 24 Months  
 Inspector: 01  
 \*For more information please refer to the instruction on the package!  
 Address: No.39-40, Xiangdong Village, Qianke Town, Cangnan County, Wenzhou City, Zhejiang Province CHINA  
 Hersteller: Cangnan County Jiawei Bag Making Factory  
 Tel: 0577-64486858  
 Made in China

CE 0598

1pc

CE 0598



Certificate FI20/967675

# Cangnan County Jiawei Bag Making Factory

No.39-40, Xiangdong Village, Qian Ku Town, Cangnan County, Wenzhou City, Zhejiang Province, 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 15 December 2020 until 15 December 2025  
1. Certified since 15 December 2020

Authorised by

SGS FIMKO OY, Notified Body 0598

Takomtie 8, FI-00380, Helsinki, Finland  
t +358 9 696 361 f +358 9 692 5474 www.sgs.com

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

Page 1 of 2



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Certificate F120/967675, continued

# Cangnan County Jiawei Bag Making Factory

## Regulation (EU) 2016/425

Module B, EU type-examination

Issue 1

PPE Product

JW (logo) CNJW-2020 particle filtering half mask, consisting of a white five layer (polypropylene/ polypropylene/ polypropylene / polypropylene / polypropylene) disposable face mask, with 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.

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:

Face mask / CNJW-2020, version1, dated: 2020-10-20.

SGS Reference Number UK/CRS 242444.

This certificate remains the property of SGS Fimko Oy to whom it must be returned on request

# Cangnan County Jiawei Bag Making Factory

No.39-40, Xiangdong Village, Qian Ku Town, Cangnan County,  
Wenzhou City, Zhejiang Province, 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 15 December 2020 until 15 December 2025  
1. Certified since 15 December 2020

Authorised by



SGS FIMKO OY, Notified Body 0598

Takomotie 8, FI-00380, Helsinki, Finland  
t +358 9 696 361 f +358 9 692 5474 www.sgs.com





# Cangnan County Jiawei Bag Making Factory

## Regulation (EU) 2016/425 Module B, EU type-examination

Issue 1

PPE Product

JW (logo) CNJW-2020 particle filtering half mask, consisting of a white five layer (polypropylene/ polypropylene/ polypropylene / polypropylene / polypropylene) disposable face mask, with 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.

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:

Face mask / CNJW-2020, version1, dated: 2020-10-20.

SGS Reference Number UK/CRS 242444.

This certificate remains the property of SGS Fimko Oy to whom it must be returned on request



Certificate CN20/42715

The management system of

# Cangnan County Jiawei Bag Making Factory

No.39-40, Xiangdong Village, Qian Ku Town, Cangnan County,  
Wenzhou City, Zhejiang Province, China

has been assessed and certified as meeting the requirements of

## Regulation (EU) 2016/425 Module C2

For the following activities

**Manufacture of JW (logo) CNJW-2020 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 22 December 2020  
and remains valid subject to satisfactory surveillance audits.  
Issue 1. Certified since 22 December 2020

Authorised by



**SGS FIMKO OY, Notified Body 0598**

Takomotie 8, FI-00380 Helsinki, Finland  
t +358 9 696 361 f +358 9 692 5474 www.sgs.com



Page 1 of 1

CANGNAN COUNTY JIAWEI BAG MAKING FACTORY  
NO.39-40, XIANGDONG VILLAGE, QIAN KU TOWN, CANGNAN COUNTY, WENZHOU CITY, ZHEJIANG PROVINCE

**THIS REPORT CANCELS AND SUPERSEDES THE TEST REPORT NO.SL52035285157101TX DATE: 2020-08-26 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) Disposable preventive mask

SGS Internal Ref.No. : CP20-040466

Sample Color : (A) WHITE

Item No. : Melt-blown fabric

Model No. : CNJW-2020

Manufacturer : CANGNAN COUNTY JIAWEI BAG MAKING FACTORY

Supplier : CANGNAN COUNTY JIAWEI BAG MAKING FACTORY

Other Info. : Batch No.: 20200728, Specifications: CNJW-2020

Material quality : double S25g non-woven fabric, 25g melt-blown fabric, 40g hot air cotton

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

Sample Receiving Date : Aug 06, 2020

Testing Period : Aug 06, 2020 - Aug 26, 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).

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 7.5 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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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 3<sup>rd</sup> Building, No.889, Yishan Road, Xuhui District Shanghai, China 200233 t (86-21) 61402666 f (86-21) 64958763 www.sgsgroup.com.cn  
Testing Center: 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 61402666 f (86-21) 64958763 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**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 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

Subject	Sample No.	Condition	Walk(%)	Head Side/side(%)	Head up/down(%)	Talk(%)	Walk(%)	Mean(%)
Zhou	1	A.R.	6.65	6.19	6.60	5.87	5.15	6.09
Luo	2	A.R.	7.48	5.51	7.86	7.31	7.35	7.18
Lu	3	A.R.	5.12	4.78	7.51	6.19	7.09	6.14
Wang	4	A.R.	5.35	4.47	6.78	4.35	5.02	5.19
Bao	5	A.R.	7.91	7.42	7.40	6.96	6.36	7.21
Ding	6	T.C.	5.00	5.89	5.24	5.55	5.66	5.47
Li	7	T.C.	6.19	8.23	7.14	8.33	7.79	7.54
Chen	8	T.C.	7.40	4.43	6.20	4.95	5.27	5.65
Song	9	T.C.	7.16	5.84	6.89	7.13	6.25	6.65
Ye	10	T.C.	7.42	8.18	6.61	8.87	6.77	7.57

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

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Ding	134	150	110	52
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 the requirements of the following table.			Detail refer to Appendix 2	Meet FFP1, Meet FFP2
Classification	Maximum penetration of test aerosol			
	Sodium chloride test 95 l/min	Paraffin oil test 95 l/min		
	% 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 (%)
Sodium chloride test	As received	1	0.526
		2	0.434
		3	0.472
	Simulated wearing treatment	4	0.503
		5	0.468
		6	0.452
	Mechanical strength + Temperature conditioned	7	1.234
		8	1.346
		9	1.174
Paraffin oil test	As received	10	0.512
		11	0.557
		12	0.607
	Simulated wearing treatment	13	0.532
		14	0.587
		15	0.519
	Mechanical strength + Temperature conditioned	16	2.374
		17	2.264
		18	2.472
Flow conditioning: Single filter: 95.0 L/min			



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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 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.	Detail refer to Appendix 3	Pass

**Appendix 3: Summarization of Test Data**

Flammability

Condition	Sample No.	Result
As received	1	NIL
	2	NIL
Temperature conditioned	3	NIL
	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(%)
As received	1	0.4640
	2	0.4637
	3	0.4625
		Mean value: 0.46



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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 7.15 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	N.A.
(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	
(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 Requirement				Results	Comment
The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.				Detail refer to Appendix 5	Meet FFP1, Meet FFP2, Meet FFP3
Classification	Maximum permitted resistance (mbar)				
	Inhalation		Exhalation		
	30 l/min	95 l/min	160 l/min		
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)

	Flow rate(l/min)	1					2					3					
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
As received	Inhalation	30	0.4	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.5	0.5
		95	1.5	1.6	1.6	1.5	1.5	1.6	1.6	1.5	1.5	1.6	1.6	1.5	1.6	1.6	1.5
	Exhalation	160	2.7	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.8	2.8	2.7	2.7	2.8	2.7
Simulated wearing treatment	Inhalation	30	0.5	0.5	0.4	0.4	0.3	0.4	0.3	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.5
		95	1.6	1.5	1.6	1.6	1.6	1.5	1.6	1.5	1.6	1.6	1.5	1.6	1.5	1.6	1.5
	Exhalation	160	2.7	2.7	2.8	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.8	2.8	2.7	2.8
Temperature conditioned	Inhalation	30	0.4	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.4
		95	1.4	1.5	1.5	1.4	1.5	1.5	1.5	1.4	1.5	1.5	1.5	1.4	1.5	1.4	1.5
	Exhalation	160	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.8	2.7

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																			
<p><u>Clause 7.17.2 Breathing resistance</u>  <u>Valved particle filtering half masks:</u>                      After clogging the inhalation resistances shall not exceed:                      FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar at 95L/min continuous flow                      The exhalation resistance shall not exceed 3 mbar at 160 L/min continuous flow.</p> <p><u>Valveless particle filtering half masks:</u>                      After clogging the inhalation and exhalation resistances shall not exceed:                      FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar at 95L/min continuous flow</p>	Optional for single shift device only	N.A.																			
<p><u>Clause 7.17.3 Penetration of filter material</u>                      All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.</p> <table border="1"> <thead> <tr> <th rowspan="3">Classification</th> <th colspan="2">Maximum penetration of test aerosol</th> </tr> <tr> <th>Sodium chloride test 95 l/min</th> <th>Paraffin oil test 95 l/min</th> </tr> <tr> <th>%</th> <th>%</th> </tr> </thead> <tbody> <tr> <td></td> <td>max.</td> <td>max.</td> </tr> <tr> <td>FFP1</td> <td>20</td> <td>20</td> </tr> <tr> <td>FFP2</td> <td>6</td> <td>6</td> </tr> <tr> <td>FFP3</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	Classification	Maximum penetration of test aerosol		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min	%	%		max.	max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	Optional for single shift device only	N.A.
Classification		Maximum penetration of test aerosol																			
		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min																		
	%	%																			
	max.	max.																			
FFP1	20	20																			
FFP2	6	6																			
FFP3	1	1																			

**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%

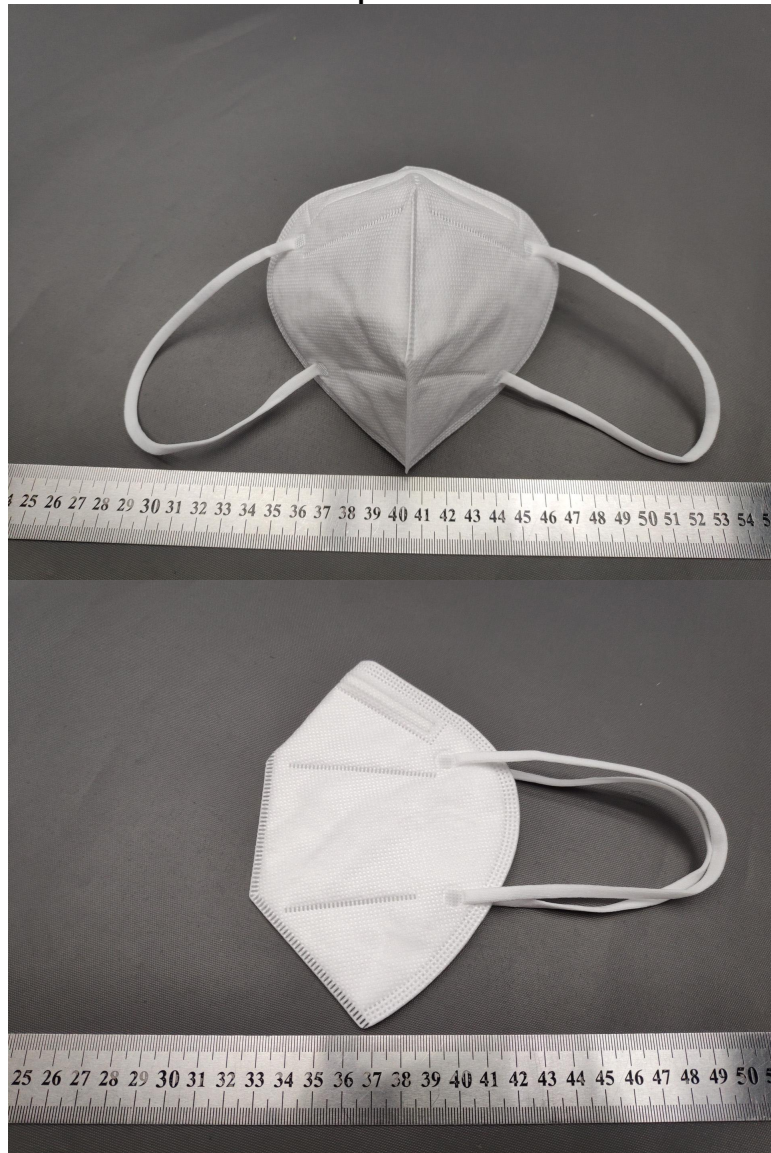


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