

# CERTIFICADO DE EXAMEN UE DE TIPO

## EU-TYPE EXAMINATION CERTIFICATE



Notified Body No. 0370



No. **0370-4483-PPE/B**

<b>ORGANISMO NOTIFICADO N°</b> <i>NOTIFIED BODY NUMBER</i>	<b>0370 - LGAI TECHNOLOGICAL CENTER (APPLUS)</b>
<b>SOLICITANTE</b> <i>APPLICANT</i>	<b>Wenzhou Jiada Technology Co., Ltd.</b> No.401, Building 19th, Rainbow Wisdom Park, Longgang City, Cangnan Area, Wenzhou City, Zhejiang Province, China.
<b>FABRICANTE</b> <i>MANUFACTURER</i>	<b>Wenzhou Jiada Technology Co., Ltd.</b> No.401, Building 19th, Rainbow Wisdom Park, Longgang City, Cangnan Area, Wenzhou City, Zhejiang Province, China.
<b>REGLAMENTO DE APLICACIÓN PARA DAR LA CONFORMIDAD   APPLICABLE REGULATION TO GIVE CONFORMITY:</b> <b>REGLAMENTO (UE) 2016/425 SOBRE LOS EQUIPOS DE PROTECCIÓN INDIVIDUAL</b> <i>REGULATION (EU) 2016/425 PERSONAL PROTECTIVE EQUIPMENT</i>	
<b>PROCEDIMIENTO DE EVALUACIÓN DE LA CONFORMIDAD</b> <i>CONFORMITY ASSESSMENT PROCEDURE</i>	Módulo // <i>Module:</i> <b>B</b> <b>EXAMEN UE DE TIPO   EU TYPE EXAMINATION</b>
<b>IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO)</b> <i>IDENTIFICATION OF THE PPE (TYPE NUMBER)</i>	Ref.: JD-99 FILTERING HALF MASK
<b>NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI   PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE</b>	FFP2 NR
<b>NORMAS ARMONIZADAS   HARMONISED STANDARDS</b>	EN 149:2001 + A1:2009 Dispositivos de protección respiratoria. Medias máscaras filtrantes de protección contra partículas. Requisitos, ensayos, marcado. <i>EN 149:2001 + A1:2009 Respiratory protective devices. Filtering half masks to protect against particles. Requirements, testing, marking</i>
<b>FECHA DE EMISIÓN   ISSUE DATE</b>	<b>28/09/2020</b>
<b>VALIDEZ HASTA   VALIDITY UNTIL</b>	<b>28/09/2025</b>

El presente certificado se mantendrá vigente durante 5 años siempre que el producto descrito no sea modificado y cumpla los requisitos esenciales de salud y seguridad establecidos en el Reglamento (UE) 2016/425. Para asegurar dicho cumplimiento, este certificado deberá ir acompañado de la documentación correspondiente a la Evaluación de Conformidad con el tipo según módulo C2, D (realizada por un Organismo Notificado, según frecuencia establecida).

*This certificate will remain valid for 5 years as long as the indicated product is not modified and fulfills the essential requirements of health and safety established in (EU) Regulation 2016/425. To ensure such compliance, this certificate must be accompanied by the documentation corresponding to the Conformity Assessment to type according to C2, D(carried out by a Notified Body according, to the established frequency).*

  
LGAI Technological Center, S.A.  
Xavier Ruiz Peña

Managing Director, Product Conformity B.U.



Este documento carece de validez sin su anexo técnico, cuyo número coincide con el del certificado.  
*This document is not valid without its technical annex, whose number coincides with the number of certificate.*

Puede comprobarse la validez de este certificado en nuestra página web / *You can check the validity of this certificate into our website at:*  
[www.appluslaboratories.com/certified\\_products](http://www.appluslaboratories.com/certified_products)

**ANEXO TÉCNICO**  
*TECHNICAL ANNEX*

**0370-4483-PPE/B**

**I. MODELOS INCLUIDOS EN EL CERTIFICADO**

*REFERENCES INCLUDED IN THIS CERTIFICATE*

<b>MARCA</b> <i>BRAND</i>	JIADA
<b>IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO)</b> <i>IDENTIFICATION OF THE PPE (TYPE NUMBER)</i>	Ref.: JD-99 FILTERING HALF MASK
<b>NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI</b> <i>PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE</i>	FFP2 NR
<b>INFORME DE ENSAYO</b> <i>TEST REPORT</i>	S20082702701E issued by Shenzhen NTEK Testing Technology Co., Ltd. (NTEK)

**Wenzhou Jiada Technology Co.,Ltd**  
**No.401, Building 19th, Rainbow Wisdom Park, Longgang City, Cangnan**  
**Area, Wenzhou City, Zhejiang Province, China.**

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**EU DECLARATION OF CONFORMITY**

**1. Personal protective equipment: FILTERING HALF MASK ( Model: JD-99, Classification: FFP2 NR )**

**2. Name and address of the manufacturer:**

**Name-** Wenzhou Jiada Technology Co.,Ltd

**Address :** No.401, Building 19th, Rainbow Wisdom Park, Longgang City, Cangnan Area, Wenzhou City, Zhejiang Province, China.

**3. This declaration of conformity is issued under the sole responsibility of the manufacturer:** Wenzhou Jiada Technology Co.,Ltd

**4. Object of the declaration is:** FILTERING HALF MASK ( Model: JD-99, Classification: FFP2 NR ) for respiratory protection against particular.

**5. The object of the declaration described in point 4 is in conformity with the relevant Union Harmonization legislation:** REGULATION (EU) 2016/425 on personal protective equipment and repealing Council Directive 89/686/EEC.

**6. FILTERING HALF MASK ( Model: JD-99, Classification: FFP2 NR ) meets the FFP2 NR requirements of the harmonized standard EN 149:2001+A1:2009 used in order to confirm the conformity with the relevant Union harmonization legislation:** REGULATION (EU) 2016/425 on personal protective equipment and repealing Council Directive 89/686/EEC.

**7. The notified body:** NB 0370 - LGAI TECHNOLOGICAL CENTER (APPLUS), with address: Campus UAB, Ronda de la Font del Carme s/n, E-08193 Bellaterra (Barcelona), Spain

**8. Certification Module:** EU TYPE EXAMINATION (Module B) + INTERNAL PRODUCTION CONTROL PLUS SUPERVISED CONTROL OF PRODUCTS AT ALEATORY INTERVALS (Module C2)

**Signed for and on behalf of:** Wenzhou Jiada Technology Co.,Ltd

- No.401, Building 19th, Rainbow Wisdom Park, Longgang City, Cangnan Area, Wenzhou City, Zhejiang Province, China.

**Place and date of issue:** Wenzhou

*29, Sep, 2020*

(Signature & Stamp)

*Lynn*







# Quality Management System Certificate

## Wenzhou Jiada Technology Co.,Ltd

Registered Address: floor 1, No.10, building 3, lane 108, Shangchang Street, Longgang City, Cangnan Area, Zhejiang province, China  
 Production/Business/Office Address: NO.401, building 19th, Rainbow Wisdom Park, Longgang City, Cangnan Area, Wenzhou City, Zhejiang Province, China

Quality Management System complies with  
**GB/T 19001-2016/ISO 9001:2015 Requirements**

The certificate is valid for the following scope:

**Daily masks (non medical) Production**

Certificate No.: 05320Q31202R0S

Certificate Date: 24-08-2020

Certificate Valid Date: 24-08-2020~23-08-2023

Date of initial Certification: 24-08-2020

Unified Social Credit Code of the Certified Organization: 91330327MA299B7L4C

This certificate is valid only if it is used within the scope of approval administrative permission and competence certificate  
 This certificate information can be found on the official website of the Certification and Accreditation Administration of the  
 People's Republic of China ([www.cnca.gov.cn](http://www.cnca.gov.cn))

After the expiration of the date of supervision, no laser anti-counterfeit mark affixed, this certificate is invalid

The first surveillance	Mark stick here	The second surveillance	Mark stick here
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中国认可  
 国际互认  
 管理体系  
 MANAGEMENT SYSTEM  
 CNAS C053-M

General Manager:

*Zhaotang*

Registered Address :2-77, 10th Floor, Building 2, No. 8 North Chaoyangmen Street, Dongcheng District, Beijing.

Mailing Address: Room 10A, Building F, Fuhua Building, No.8 North Chaoyangmen Street, Dongcheng District, Beijing.

Tel: 010-50981300 P.C.:100708 Website: <http://www.ngv.org.cn>

# Notification of a Body in the framework of a technical harmonization directive

**From :** Subdirección General de Calidad y Seguridad Industrial / Ministerio de Industria, Comercio y Turismo  
Paseo de la Castellana, 160  
28071 Madrid  
Spain

**To :** **European Commission**  
GROWTH Directorate-General  
200 Rue de la Loi,  
B-1049 Brussels.  
**Other Member States**

**Reference :**

Legislation : Regulation (EU) 2016/425 Personal protective equipment

**Body name, address, telephone, fax, email, website :**

LGAI TECHNOLOGICAL CENTER, S. A./Applus  
Campus UAB, Apto Correos 18  
08193 BELLATERRA (Barcelona)  
Spain  
Phone : +34 935 672 000  
Fax : +34 935 672 001  
Email : product.cert@applus.com  
Website : www.appluscorp.com

**Body :**

**NB 0370**

**The body is formally accredited against :**

EN ISO/IEC 17065 - Product certification

**Name of National Accreditation Body (NAB) :** ENAC

**The accreditation covers the product categories and conformity assessment procedures concerned by this notification :** Yes

**Tasks performed by the Body :**

Last approval date : 13/06/2020

<b>Product family, product /Intended use/Product range</b>	<b>Procedure/Modules</b>	<b>Annexes or articles of the directives</b>
Equipment providing respiratory system protection	EU type-examination Supervised product checks at random intervals	Annex V Annex VII

# Test Report

**Applicant:** Wenzhou Jiada Technology Co.,Ltd  
**Address:** No.401, Building 19th, Rainbow Wisdom Park, Longgang City, Cangnan Area, Wenzhou City, Zhejiang Province, China.

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

Product name: FILTERING HALF MASK  
Model: JD-99  
Trade mark: JIADA  
Manufacturer: Wenzhou Jiada Technology Co.,Ltd  
Address: No.401, Building 19th, Rainbow Wisdom Park, Longgang City, Cangnan Area, Wenzhou City, Zhejiang Province, China.  
Classification: FFP2 NR  
Sample quantity: 120 Pcs

Sample Received Date: Aug. 28, 2020  
Testing Period: Aug. 28, 2020~ Sep. 02, 2020

**Test Requirement:**

According to the requirement of the client, the test item(s) of the sample is according to the standard EN149:2001+A1:2009.

**Test Result(s):** Please refer to the following page(s)

**Test Method:** Please refer to the following page(s)

Compiled by: Maney Reviewed by: may  
Approved by: Mark Liaw Date: 2020-09-09

# Packing Information

Inner packing



## Single

重量/NW : 6g

尺寸/SIZE : 15.5x10.5cm

## 25PCS/Box

长度 (L) : 13cm

宽度 (W) : 13cm

高度 (H) : 10.5cm

## 1000Pcs/Ctn

长度 (L) : 66cm

宽度 (W) : 50cm

高度 (H) : 28cm

净重 (NW) : 6kgs

毛重 (GW) : 10.5 kgs



Carton packing







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国际互认  
检测  
TESTING  
CNAS L6780

# 检 验 报 告

## TEST REPORT



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浙江省轻工业产品质量检验研究院

Zhejiang Light Industrial Products Inspection and Research Institute

国家纺织服装产品质量监督检验中心（浙江）

National Textiles and Garment Quality Supervision Inspection Center(Zhejiang)

**Zhejiang Light Industrial Products Inspection and Research Institute  
National Textiles and Garment Quality Supervision Inspection Center(Zhejiang)**

# Test report

**Number:**W202017890E

page1/2

Name of Customer	Wenzhou Jiada Technology Co., Ltd.	Address	No .10, No .3, No .108 Shangchang Street, Longgang City, Wenzhou City, Zhejiang Province
Manufacturer	---	Address	---
Sample information	Name of sample: KN95 Protective Mask Characteristics of sample: white Trademark of sample: --- Specification/model: KN95 Level: KN95 Category of safety specification: --- Art. No. : --- -----		
Above-mentioned information by Customer-supplied			
The sent way of sample	Courier	Sample quantity	30 pieces
Receiving Date of Sample	2020/05/12	Test Category	Entrusted inspection
Date of Testing	2020-05-12- 2020-05-15		
RatingRequirements	GB 2626-2006		
Test Summary:  See the attached page for the results.  <div align="right">                     Test Seal                       Date of Approval: 2020-05-16                 </div>			
Remarks	As per client's request, the sample is not pretreated and the result is for reference.		

Approved by:

# Test report

Number:W202017890E

page2/2

ITEM	STANDARD (KN95)	RESULT	RATING
1. FILTER EFFICIENCY(SALT MEDIUM) (GB 2626-2006 6.3)(%)			
-	$\geq 95.0$	99.3	PASS
2. RESPIRATORY RESISTANCE (GB 2626-2006 6.5 & 6.6)(Pa)			
-INSPIRATORY RESISTANCE	$\leq 350$	180	PASS
-EXPIRATORY RESISTANCE	$\leq 250$	159	PASS

Picture(s) of sample



—End of report—



## DECLARATION

1. Our organization guarantees impartiality, independence and honesty of inspection, and is responsible for the results of inspection, keeping the samples supplied by the entrusting party confidential and at the same time protecting the ownership of the samples supplied.
2. The test report will be deemed invalid without signatures of the inspector/reviewer and authorized personnel, and the red special inspection stamp of our organization.
3. The test report will be invalid if it is altered. Copies of the report are invalid without the red special inspection stamp of our organization.
4. The test results shown in this report are applicable only to the samples provided by customers.
5. All the pages of the report are integral parts of the report. Our organization will not be responsible for any misunderstanding or other results caused by using separate page(s) of the report.
6. If there is any dissent of the report, the entrusting party shall notify our organization timely. For the mandatory inspection given by governmental administration departments, and dissent about the sample being tested or test results on the report should be dealt with in accordance with national regulations.

### 浙江省轻工业产品质量检验研究院及附设的检验中心 The Affiliated Inspection Centers

浙江省轻工业产品质量检验研究院

Zhejiang Light Industrial Products Inspection and Research Institute

国家纺织服装产品质量监督检验中心（浙江）

National Textiles and Garment Quality Supervision Inspection Center (Zhejiang)

地址：浙江省杭州市江干区下沙路 300 号 6 号楼

Address: Building No.6, 300 XiaSha Road, Hangzhou, Zhejiang

联系电话：0571-85122669

Telephone: 0571-85122669

E-Mail: 1137907994@qq.com

国家家具产品质量监督检验中心（浙江）

National Center for Quality Supervision Inspection of Furniture (Zhejiang)

浙江省室内安全及家具产品质量检验中心

Zhejiang Center of Quality Test for Indoor Safety and Furniture Products

地址：浙江省杭州市余杭区良渚街道经一路 1 号良渚大学科技园 4 号楼

Address: Building 4 LiangZhu University Science and Technology Park, No.1, JingYi Rd, Yuhang District, Hangzhou, Zhejiang

联系电话：0571-89009556

Telephone: 0571-89009556

E-Mail: 2047699564@qq.com

浙江省轻工及五金产品质量检验中心

Zhejiang Center of Quality Test for Light Industry and Hardware Products

浙江省体育用品质量检验中心

Zhejiang Center of Quality Test for Sports Products

地址：浙江省杭州市西湖区天目山路 222 号 3 号楼

浙江省杭州市余杭区良渚街道经一路 1 号良渚大学科技园 3 号楼

Address: No. 222 Tianmushan Rd., Hangzhou, Zhejiang

Building 3 LiangZhu University Science and Technology Park, No.1,

JingYi Rd., Hangzhou, Zhejiang

联系电话：0571-89001107

Telephone: 0571-89001107

E-Mail: wujtest@126.com

国家锁具产品质量监督检验中心（浙江）

National Center for Quality Supervision Inspection of Lock (Zhejiang)

浙江省锁具产品质量检验中心

Zhejiang Center of Quality Test for Lock Products

地址：浙江省杭州市塘苗路 24 号

Address: No. 24 Tangmiao Rd., Hangzhou, Zhejiang

联系电话：0571-85027738

Telephone: 0571-85027738

E-Mail: Locktest@126.com

网上业务受理/报告查询：<http://www.zjttj.cn>

Online Business-Reception/Report Inquires: <http://www.zjttj.cn>

投诉电话：0571-85023552

Complaint Tel: 0571-85023552



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## TEST REPORT



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浙江省轻工业品质量检验研究院

Zhejiang Light Industrial Products Inspection and Research Institute

国家纺织服装产品质量监督检验中心（浙江）

National Textiles and Garment Quality Supervision Inspection Center(Zhejiang)



**Zhejiang Light Industrial Products Inspection and Research Institute  
National Textiles and Garment Quality Supervision Inspection Center(Zhejiang)**

# Test report

Number:W202029841E

page1/2

Name of Customer	Wenzhou Jiada Technology Co., Ltd.	Address	No .10, No .3, No .108 Shangchang Street, Longgang City, Wenzhou City, Zhejiang Province
Manufacturer	Wenzhou Jiada Technology Co., Ltd.	Address	No .10, No .3, No .108 Shangchang Street, Longgang City, Wenzhou City, Zhejiang Province
Sample information	Name of sample: KN95 Mask (NON-Medical) Characteristics of sample: WHITE Trademark of sample: --- Specification/model: jd-20208 Level: KN95 Category of safety specification: --- Art. No. : --- -----		
Above-mentioned information by Customer-supplied			
The sent way of sample	Courier	Sample quantity	30 pieces
Receiving Date of Sample	2020/07/06	Test Category	Entrusted inspection
Date of Testing	2020-07-06~2020-07-14		
RatingRequirements	GB2626-2006		
Test Summary:	See the attached page for the results.  <div style="text-align: right;">                     [Signature]                      Test Seal                      Date of Approval: 2020-07-14                 </div>		
Remarks			

Approved by:

# Test report

Number:W202029841E

page2/2

ITEM	STANDARD (KN95)	RESULT	RATING
1. FILTER EFFICIENCY(NaCl PARTICLE) (GB 2626-2006 6.3)(%)			
- Before pretreatment	$\geq 95.0$	99.3	PASS
- After pretreatment	$\geq 95.0$	98.6	PASS
2. RESPIRATORY RESISTANCE (GB 2626-2006 6.5 & 6.6)(Pa)			
-INSPIRATORY RESISTANCE	$\leq 350$	Before pretreatment: 148,182 After pretreatment: 166,165	PASS
-EXPIRATORY RESISTANCE	$\leq 250$	Before pretreatment: 100,117 After pretreatment: 93,111	PASS

Picture(s) of sample



—End of report—

## DECLARATION

1. Our organization guarantees impartiality, independence and honesty of inspection, and is responsible for the results of inspection, keeping the samples supplied by the entrusting party confidential and at the same time protecting the ownership of the samples supplied.
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### 浙江省轻工业产品质量检验研究院及附设的检验中心 The Affiliated Inspection Centers

浙江省轻工业产品质量检验研究院

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National Textiles and Garment Quality Supervision Inspection Center (Zhejiang)

地址：浙江省杭州市江干区下沙路 300 号 6 号楼

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浙江省室内安全及家具产品质量检验中心

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地址：浙江省杭州市余杭区良渚街道经一路 1 号良渚大学科技园 4 号楼

Address: Building 4 LiangZhu University Science and Technology Park, No.1, JingYi Rd, Yuhang District, Hangzhou, Zhejiang

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Telephone: 0571-89009556

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浙江省轻工及五金产品质量检验中心

Zhejiang Center of Quality Test for Light Industry and Hardware Products

浙江省体育用品质量检验中心

Zhejiang Center of Quality Test for Sports Products

地址：浙江省杭州市西湖区天目山路 222 号 3 号楼

浙江省杭州市余杭区良渚街道经一路 1 号良渚大学科技园 3 号楼

Address: No. 222 Tianmushan Rd., Hangzhou, Zhejiang

Building 3 LiangZhu University Science and Technology Park, No.1,

JingYi Rd., Hangzhou, Zhejiang

联系电话：0571-89001107

Telephone: 0571-89001107

E-Mail: wujtest@126.com

国家锁具产品质量监督检验中心（浙江）

National Center for Quality Supervision Inspection of Lock (Zhejiang)

浙江省锁具产品质量检验中心

Zhejiang Center of Quality Test for Lock Products

地址：浙江省杭州市塘苗路 24 号

Address: No. 24 Tangmiao Rd., Hangzhou, Zhejiang

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投诉电话：0571-85023552

Complaint Tel: 0571-85023552





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# 检 验 报 告

## TEST REPORT



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浙江省轻工业品质量检验研究院

Zhejiang Light Industrial Products Inspection and Research Institute

国家纺织服装产品质量监督检验中心（浙江）


National Textiles and Garment Quality Supervision Inspection Center(Zhejiang)

**Zhejiang Light Industrial Products Inspection and Research Institute**  
**National Textiles and Garment Quality Supervision Inspection Center(Zhejiang)**

# Test report

Number:W202029621E

page1/3

Name of Customer	Wenzhou Jiada Technology Co., Ltd.	Address	No .10, No .3, No .108 Shangchang Street, Longgang City, Wenzhou City, Zhejiang Province
Manufacturer	Wenzhou Jiada Technology Co., Ltd.	Address	No .10, No .3, No .108 Shangchang Street, Longgang City, Wenzhou City, Zhejiang Province
Sample information	Name of sample: Disposable Face Mask Characteristics of sample: blue Trademark of sample: --- Specification/model: ZSJ-1983 Level: --- Category of safety specification: --- Art. No. : --- -----		
Above-mentioned information by Customer-supplied			
The sent way of sample	Courier	Sample quantity	30 pieces
Receiving Date of Sample	2020/07/03	Test Category	Entrusted inspection
Date of Testing	2020-07-03~2020-07-08		
RatingRequirements	GB/T 32610-2016		
Test Summary:  See the attached page for the results.  <div align="right">             Test Seal            Date of Approval: 2020-07-08         </div>			
Remarks	1. The protection effect grade is not marked on the sample mark, and it is judged according to the lowest standard requirement D grade.		

Approved by:

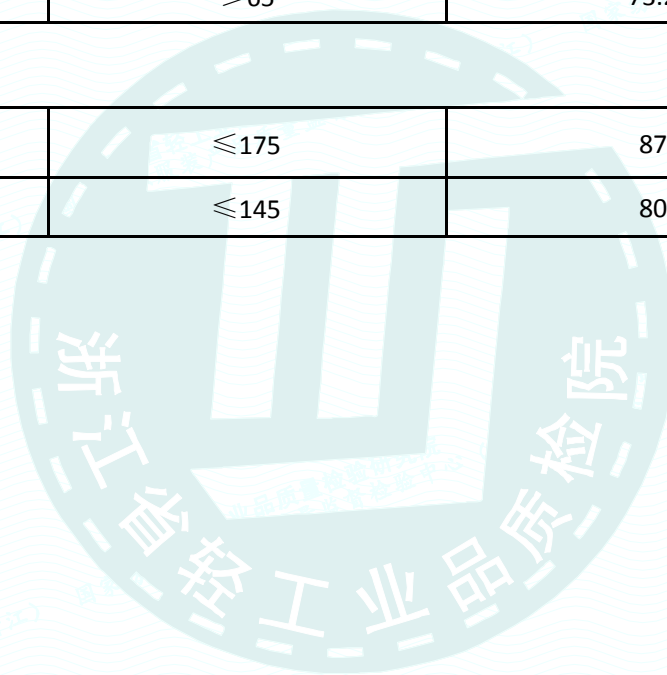


# Test report

Number:W202029621E

page2/3

ITEM	STANDARD (D GRADE)	RESULT	RATING
1. FILTER EFFICIENCY(SALT MEDIUM) (GB/T32610-2016)(%)			
-Before pretreatment	≥90	99.1	PASS
-After pretreatment	≥90	98.6	PASS
2. PARTICLE PROTECTIVE PERFORMANCE (GB/T32610-2016)(%)			
-	≥65	73.2	PASS
3. RESPIRATORY RESISTANCE (GB/T32610-2016)(Pa)			
-INSPIRATORY RESISTANCE	≤175	87	PASS
-EXPIRATORY RESISTANCE	≤145	80	PASS



# Test Report

**Applicant:** Wenzhou Jiada Technology Co.,Ltd  
**Address:** No.401, Building 19th, Rainbow Wisdom Park, Longgang City, Cangnan Area, Wenzhou City, Zhejiang Province, China.

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

Product name: FILTERING HALF MASK  
 Model: JD-99  
 Trade mark: JIADA  
 Manufacturer: Wenzhou Jiada Technology Co.,Ltd  
 Address: No.401, Building 19th, Rainbow Wisdom Park, Longgang City, Cangnan Area, Wenzhou City, Zhejiang Province, China.  
 Classification: FFP2 NR  
 Sample quantity: 120 Pcs

Sample Received Date: Aug. 28, 2020  
 Testing Period: Aug. 28, 2020~ Sep. 02, 2020

**Test Requirement:**

According to the requirement of the client, the test item(s) of the sample is according to the standard EN149:2001+A1:2009.

**Test Result(s):** Please refer to the following page(s)

**Test Method:** Please refer to the following page(s)

Compiled by: Maney Reviewed by: may  
 Approved by: Mark Liaw Date: 2020-09-09

**Summary of assessment\***

Clause	Assessment
7.3 Visual inspection	NRq
7.4 Packaging	Pass
7.5 Material	Pass
7.6 Cleaning and disinfecting	N.A.
7.7 Practical performance	Pass
7.8 Finish of parts	Pass
7.9.1 Total inward leakage	Pass
7.9.2 Penetration of filter material	Pass
7.10 Compatibility with skin	Pass
7.11 Flammability	Pass
7.12 Carbon dioxide content of the inhalation air	Pass
7.13 Head harness	Pass
7.14 Field of vision	Pass
7.15 Exhalation valve(s)	N.A.
7.16 Breathing resistance	Pass
7.17 Clogging	N.A.
7.18 Demountable parts	N.A.

**Key**

Pass	Requirement satisfied.
NRq	The clauses were not required.
Fail	Requirement not satisfied. Refer to the "Result details" section for more information.
N.A.	Requirement not applicable.

Test	Uncertainty
Total inward leakage	6.40 %
Penetration of filter material (NaCl)	1.60 %
Penetration of filter material (Paraffin Oil)	1.78 %
Carbon dioxide content of the inhalation air	5.34 %
Breathing resistance (30 L/min)	3.60 %
Breathing resistance (95 L/min)	2.20 %
Breathing resistance (160 L/min)	2.00 %

\* Assessment relates only to those specimens which were tested and are the subject of this report.

## Test Result

Respiratory Protective Devices — Filtering Half Masks to Protect against Particles — Requirements, Testing, Marking  
(EN 149:2001+A1:2009)

### Clause 7.3 Visual inspection

Test Requirement	Results	Comment
Marking and the information supplied by the manufacturer, requirements refer to clause 9 and clause 10.	The clauses were not required.	NRq

### 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	Pass
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Comply	Pass
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	Pass

**Clause 7.6 Cleaning and Disinfecting**

(EN 149:2001+A1:2009, Clause 8.4 &amp; 8.5 &amp; 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
	Sample 11#~12#:	
General: a) head harness comfort b) security of fastenings c) field of vision d) any other comments reported by the wearer on request.	No imperfections	Pass
Walking Test: 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.	No imperfections	
Work Simulation Test: a) walking on the level with headroom of $(1.3 \pm 0.2)$ m for 5min b) crawling on the level with headroom of $(0.7 \pm 0.05)$ m for 5min c) filling a small basket (see Figure 1, approximate volume = 8 L) with chippings or other suitable material from a hopper which stands 1.5 m high and has an opening at the bottom to allow the contents to be shovelled out and a further opening at the top where the basket full of chippings is returned.	No imperfections	



**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
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	Condition	Normal Breathing (%)	Head Side/Side (%)	Head Up/Down (%)	Speak Loudly (%)	Normal Breathing (%)	Mean (%)
Huang	1#	A.R.	4.3	4.6	4.7	4.9	4.4	4.58
Zhou	2#	A.R.	3.7	4.0	4.1	4.3	3.6	3.94
Ma	3#	A.R.	2.8	3.1	3.0	3.3	2.9	3.02
Wu	4#	A.R.	3.3	3.6	3.5	3.8	3.1	3.46
Li	5#	A.R.	4.6	4.9	4.8	5.1	4.5	4.78
Wu	6#	T.C.	5.1	5.3	5.5	5.8	5.2	5.38
Zhai	7#	T.C.	2.4	2.6	2.7	3.0	2.6	2.66
Zheng	8#	T.C.	3.5	3.8	3.7	4.1	3.4	3.70
Huang	9#	T.C.	4.6	4.8	4.9	5.2	4.8	4.86
Wu	10#	T.C.	3.5	3.8	3.9	4.1	3.4	3.74

## Facial Dimension:

Subject	Length of Face ( mm )	Width of Face ( mm )	Depth of Face ( mm )	Width of Mouth ( mm )
Huang	130	140	125	53
Zhou	110	148	125	55
Ma	120	158	110	50
Wu	110	148	121	44
Li	112	146	112	50
Wu	120	154	128	54
Zhai	135	165	125	53
Zheng	116	155	112	54
Huang	115	157	118	51
Wu	112	172	118	55

**Clause 7.9.2 Penetration of Filter Material**

(EN 149:2001+A1:2009, Clause 8.11 &amp; 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	Pass
Classification	Maximum penetration of test aerosol			
	Sodium chloride test 95 L/min % max.	Paraffin oil test 95 L/min % 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 (%)		Assessment
			Average in 30s after 3 min	Max. during exposure	
Sodium chloride test	A.R.	13#	1.0	/	Pass
		14#	1.0	/	
		15#	0.9	/	
	S.W.	19#	0.8	/	
		20#	0.8	/	
		21#	0.8	/	
	M.S. + T.C.	25#	/	0.9	
		26#	/	1.0	
		27#	/	0.9	
Paraffin oil test	A.R.	16#	0.9	/	
		17#	1.0	/	
		18#	0.9	/	
	S.W.	22#	0.7	/	
		23#	0.9	/	
		24#	0.5	/	
	M.S. + T.C.	28#	/	2.9	
		29#	/	4.1	
		30#	/	2.7	
Flow conditioning: 95.0 L/min					

**Clause 7.10 Compatibility with Skin**

(EN 149:2001+A1:2009, Clause 8.4 &amp; 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 on 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	Assessment
A.R.	31#	Nonflammable	Pass
	32#	Flammable, burn for no more than 5 s	
T.C.	33#	Flammable, burn for no more than 5 s	
	34#	Flammable, burn for no more than 5 s	

**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	Assessment
A.R.	35#	0.53%	Pass
	36#	0.51%	
	37#	0.48%	
		Mean value: 0.51%	

**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	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.	No valves.	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.	No valves.	
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.	No valves.	
(d) When the exhalation valve housing is attached to the face blank, it shall withstand axially a tensile force of 10N applied for 10 s.	No valves.	



**Clause 7.16 Breathing Resistance**

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

Test Requirement				Results	Comment
The breathing resistances apply to valved and valveless filtering half masks and shall meet the requirements as the following table.				Detail refer to Appendix 5	Pass
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**

Specimen	Condition	Inhalation(mbar)		Exhalation resistance(mbar)				
		At 30 L/min	At 95 L/min	At 160 L/min				
				A	B	C	D	E
38#	A.R.	0.2	0.7	1.2	1.2	1.2	1.2	1.2
39#		0.2	0.7	1.2	1.2	1.2	1.2	1.2
40#		0.2	0.7	1.2	1.2	1.2	1.2	1.2
41#	S.W.	0.2	0.8	1.1	1.1	1.1	1.1	1.1
42#		0.3	0.8	1.1	1.1	1.1	1.1	1.1
43#		0.3	0.8	1.1	1.1	1.1	1.1	1.1
44#	T.C.	0.2	0.7	1.0	1.0	1.0	1.0	1.0
45#		0.2	0.7	1.0	1.0	1.0	1.0	1.0
46#		0.2	0.7	1.0	1.0	1.0	1.0	1.0
/	F.C.	/	/	/	/	/	/	/
/		/	/	/	/	/	/	/
/		/	/	/	/	/	/	/

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

**Clause 7.17 Clogging**

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

Test Requirement		Results	Comment	
Clause 7.17.2 Breathing resistance Valved particle filtering half masks: 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. Valveless particle filtering half masks: After clogging the inhalation and exhalation resistances shall not exceed: FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar at 95L/min continuous flow		Requirement not applicable.	N.A.	
Test Requirement		Results	Comment	
Clause 7.17.3 Penetration of filter material All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.		Requirement not applicable.	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 detachable part	N.A.

## Sample photo(s):



Fig.1



Fig.2

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

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