Verify the validity with the QR code



NB 2163

EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163-PPE-936

Respiratory protective devices, filtering half masks to protect against particles manufactured by

Tongcheng Jiuxi Technology Co., Ltd.

No:96, Donghuan Road, Tongcheng Economic and Technological Development Zone, Anhui,

are tested and evaluated according to

EN 149:2001 + A1:2009 Respiratory Protective Devices -Filtering Half Masks to Protect Against Particles -Requirements, Testing, Marking

Based on the type examination conducted with the evaluation of test reports, technical file according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 5, it is approved that the product meets the requirements of the regulation.

Product Definition

Model: JX-R950 Filtering half mask Classification: FFP2 NR

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with;

- Issuing an appropriate EU Declaration of Conformity according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 9.
- Ongoing successful performance in fulfilment of the requirements set out in Personal Protective Equipment Regulation (EU) 2016/425 and harmonised standards, ensured by assessments based on Annex 7 (Module C2) or Annex 8 (Module D) of the regulation no later than 1 year from the beginning of serial production

This certificate is initially issued on 03/07/2020 and will be valid for 5 years, if there is no change in the relevant harmonised standard affecting the essential health and safety requirements.





Verify the validity with the QR code



NB 2163

CERTIFICATE OF CONFORMANCE

Certificate No: 2163-PPE-936/01

Respiratory protective devices, filtering half masks to protect against particles manufactured by

Tongcheng Jiuxi Technology Co., Ltd.

No:96, Donghuan Road, Tongcheng Economic and Technological Development Zone, Anhui, CHINA Continues to fulfil the requirements of

EN 149:2001 + A1:2009 Respiratory Protective Devices -**Filtering Half Masks to Protect Against Particles -**Requirements, Testing, Marking

Based on the evaluation of test reports and internal quality control audit reports according to EN 149+A1:2009 and Personal Protective Equipment Regulation (EU) 2016/425 Annex VII (Module C2). This certificate implies that the manufactured products show below are in conformance with the approved EU Type Examination model and meets the requirements of the regulation.

Product Definition

Model	Class	EU Type Examination Certificate				
Wiodei	Class	Serial No	Date	Issuing NB No		
JX-R950	FFP2 NR	2163-PPE-936	03.07.2020	2163		

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with;

- Issuing an appropriate EU Declaration of Conformity according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 9.
- Taking all measures necessary so that the manufacturing process and its monitoring ensure the homogeneity of production and conformity of the manufactured PPE with the type described in the EU type examination certificate.

This certificate is issued on 11/07/2020 and will be valid for one year, until 10/07/2021 if the manufacturer makes no major change in the product designs and manufacturing processes affecting the product performance on the essential health and safety requirement.

UNIVERSAL CERTIFICATION Director



UNIVERSAL CERTIFICATION and SURVEILLANCE SERVICES TRADE CO.

Necip Fazil Bulvari Keyap Sitesi E2 Blok No:44/84 Yukari Dudullu Umraniye, Istanbul / TURKEY

TEST REPORT

Report Date: 01.07.2020 Report Number: 07-2020-T-0179

CLIENT and SAMPLE INFORMATION

TEST OWNER	TONGCHENG JIUXI TECHNOLOGY CO., LTD						
ADDRESS	No:96, Donghuan Road, Tongcheng Economic and Technological Development Zone, Anhui, China						
SAMPLE DESCRIPTION	Folding type protective mask						
BRAND NAME - MODEL	JX-R950	JX-R950					
TESTING STANDARD	EN 149+A1:	EN 149+A1:2009					
CASE NUMBER	CE-PPE-2620						
SAMPLE RECEIVE DATE	14.05.2020 TESTING START DATE 21.05.2020						
DISINFECTION INSTRUCTION If applicable	Not given, single use only				70		
NUMBER OF SAMPLES	50	SAMPLE I	Ds:	1 – 46	0		
AS RECEIVED SAMPLE NO	26-46						
	Simulated wearing treatment		1-2-3-4-5-6-7-8-9 (As Received)				
CONDITIONING SAMPLE NO	Temperature	Temperature conditioning		10-11-12-13-14-15 (Sample after test of Mechanical Strength)			
					3-24-25 (As Received)		
	Mechanical s	strength	10-	11-12-13-14-15 (As R	Received)		

The results given in this test report belongs to the samples tested. The report content cannot be recreated partially without the written consent of UNIVERSAL CERTIFICATION.

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> Suat KAÇMAZ Director



1. REPORT SUMMARY

TEST NAME	RESULT	EVALUATION
Total Inward Leakage Testing	Pass	FFP2
Penetration of Filter Material	Pass	FFP2
Flammability Testing	Pass	See results
Carbon Dioxide Content of The Inhalation Air Testing	Pass	See results
Breathing Inhalation Resistance-30 l/min	Pass	See results
Breathing Inhalation Resistance-95 l/min	Pass	See results
Exhalation Resistance, flow rate 160 l/min	Pass	See results
OG)	CO.LTA	
	Total Inward Leakage Testing Penetration of Filter Material Flammability Testing Carbon Dioxide Content of The Inhalation Air Testing Breathing Inhalation Resistance-30 l/min Breathing Inhalation Resistance-95 l/min Exhalation Resistance, flow rate 160 l/min	Total Inward Leakage Testing Pass Penetration of Filter Material Pass Flammability Testing Pass Carbon Dioxide Content of The Inhalation Air Testing Breathing Inhalation Resistance-30 l/min Pass Breathing Inhalation Resistance-95 l/min Pass

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2. TEST RESULTS and EVALUATION

7.4 PACKAGING (EN 149:2001 + A1:2009 clause 8.2)

Test Method: Clause 8.2-Visual inspection

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.	Pass	The masks were packaged in sealed plastic bags, in larger plastic bags inside a large cardboard box that gave some protection against mechanical damage or contamination before use

Lab A

7.5 MATERIAL (EN 149:2001 + A1:2009 clause 8.2, 8.3.1, 8.3.2)

Test Method: Clause 8.2-Visual inspection

Clause 8.3.1-Simulated wearing treatment

A breathing machine is adjusted to 25 cycles/min and 2,0 l/stroke. The particle filtering half mask was mounted on a Sheffield dummy head.

For testing, a saturator is incorporated in the exhalation line between the breathing machine and the dummy head, the saturator being set at a temperature in excess of 37 °C to allow for the cooling of the air before it reaches the mouth of the dummy head.

The air has been saturated at (37 ± 2) °C at the mouth of the dummy head

Clause 8.3.2-Temperature conditioning

The ambient temperature for testing has been between 16 °C and 32 °C and the temperature limits has been subject to an accuracy of ± 1 °C.

- a) for 24 h to a dry atmosphere of (70 ± 3) °C;
- b) for 24 h to a temperature of (-30 ± 3) °C; and allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing. The conditioning has been carried out in a manner which ensures that no thermal shock occurs.

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.	Pass	The materials used were able to withstand handling and wear during the limited laboratory testing earried out.
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Pass	It was not constitute a hazard or nuisance for the wearer.
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.	Pass	None of the specimens conditioned suffered mechanical failure.
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Pass	None of the specimens had not collapse after conditioning.

Lab B



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7.6 CLEANING AND DISINFECTING (EN 149:2001 + A1:2009 clause 8.4, 8.5, 8.11)

Test Method: Described in Clause 8.4, 8.5 and 8.11

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.	N/A	This article is not applicable for tested protective mask which is single use disposable mask.

7.7 PRACTICAL PERFORMANCE (EN 149:2001 + A1:2009 clause 8.4)

Test Method: Described in Clause 8.4

REQUIREME	NT		RESULTS	COMMENT
The particle filtering half mask shall undergunder realistic conditions. These general test the equipment for imperfections that can not described elsewhere in this standard. Two as received mask samples are used by the mins walking with a speed of 6km/h) and we crawling and basket filling excercises) tests.	s serve the purple be determined	by the tests the walking (10	No imperfections	Detail refer to Annex I
Annex I-Test Result: Number of sample: 29 (A.R), 30 (A.R)		CHNOL	OGV	
			Requirements in	Assessment of Test

Annex I-Test Result:

Assessed elements	Positive Assessment	Negative Assessment	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
The face piece fitting Head harness comfort Security of fastenings Field of vision	2 2 2 2 2	0 0 0	Filtering half masks should not have imperfections related to wearer's acceptance	Filtering half masks fulfil requirements of the standard EN 149:2001 + A1:2009 given in 7.7 No imperfections

The subjects (MEG and MA) were able to complete the exercises and did not report any nuisance or problem with the mask. Lab B

7.8 FINISH OF PARTS (EN 149:2001 + A1:2009 clause 8.2)

Test Method: Described in Clause 8.2

REQUIREMENT	RESULTS	COMMENT
Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.	Pass	None of the specimens used in laboratory testing showed evidence of sharp edges or burrs while visual inspection and performance tests.

Lab A



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7.9.1 TOTAL INWARD LEAKAGE (EN 149:2001 + A1:2009 clause 8.5)

Test Method: Described in Clause 8.5

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 results 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 not be greater than: 22 % for FFP1, 8 % for FFP2, 2 % for FFP3	Pass	Classified as FFP2 Detail refer to Annex II

Annex II-Test Result:

The test results obtained are given in the tables as follows

Γest Subject	No of sample	Cond.	1. Walk (%)	Head side/ side (%)	Head up/down (%)	Talk (%)	2. Walk (%)	Average (%
1	31	A.R.	5,81	5.32	5,46	5.75	6,02	5.67
2	32	A.R.	5,75	5,83	5,96	6.12	6.18	5.97
3	33	A.R.	5,94	5,99	6,21	6,27	6,47	6.18
4	34	A.R.	5.68	5.76	5,88	5,97	6,05	5.87
5	35	A.R.	6.35	6,30	6,39	6.50	6,65	6.44
6	16	T.C.	7.14	7.65	7.22	7.58	7.79	7.48
7	17	T.C.	6.46	6.62	6.78	6.80	6.74	6,68
8	18	T.C.	7.39	7.45	7.50	7,58	7.62	7,51
9	19	T.C.	7,52	7.71	7,63	7,56	7,60	7.60
10	20	T.C.	7,20	7.73	7,59	7.8	7.82	7,63

_				- 4.1
Test Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Wi
1	117	155	130	60
2	113	148	128	62
3	112	160	134	59
4	115	148	125	61

	117	155	150	00
2	113	148	128	62
3	112	160	134	59
4	115	148	125	61
5	120	158	132	57
6	118	150	134	59
7	115	152	130	57
8	117	155	134	59
9	114	149	128	57
10	110	150	131	55

For Information Only

Lab B



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7.9.2 PENETRATION OF FILTER MATERIAL (EN 149:2001 + A1:2009 clause 8.11)

Test Method: Described in Clause 8.11

	REQUIREMEN	T	RESULTS	COMMENT
Classification	Max penetration	on of test aerosol		
	NaCl test 95 l/min %max	Paraffin oil test 95 l/min %max	Pass	Detail refer to Annex IIIA and IIIB
FFP1	20	20		betain refer to Annex The and This
FFP2	6	6		
FFP3	1	1		

Annex IIIA-Test Result:

The test results obtained are given in the tables as follows:

No. of Sample	Condition TONG	Penetration of Sodium Chloride in accordance with EN 13274-7:2019 [%] Flow rate 95 l/min	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
36 37 38	As received	0.13 0.60 0.90	FFP1 ≤ 20 %	Passed Filtering half masks fulfil
2 3	Simulated wearing treatment	0.18 0.21 0.16	FFP2 ≤ 6 %	the requirements of the standard EN 149:2001+A1:2009 given
10 11 12	Mechanical strength + Temperature conditioned	0.25 0.29 0.32	FFP3 ≤ 1 %	in 7.9.2 in range of the first, second protection class (FFP1, FFP2,FFP3)

Annex IIIB-Test Result:

No. of Sample	Condition	Penetration of Paraffin Oil Mist in accordance with EN 13274-7:2019 [%] Flow rate 95 l/min	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
39		0,23		Passed
40	As received	0,59		
41		1.09	FFP1 ≤ 20 %	Filtering half masks fulfil
4	Cimulated maning	045		the requirements of the
5	Simulated wearing treatment	0,58	FFP2 ≤ 6 %	standard EN
6	treatment	0,54		149:2001+A1:2009 given
13	Mechanical strength +	1.37	FFP3 ≤ 1 %	in 7.9.2 in range of the first
14	Temperature	0,99		second protection classes
15	conditioned	1,22		(FFP1, FFP2)

Lab A + B



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7.13 HEAD HARNESS (EN 149:2001 + A1:2009 clause 8.4, 8.5)

Test Method: Described in Clause 8.4, 8.5

REQUIREMENT	RESULTS	COMMENT
The head harness shall be designed so that the particle filtering half-mask can be donned and removed easily.	Pass	No problem with the head harness reported by the wearers during the practical performance test.
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 capable of maintaining total inward leakage requirements for the device.	Pass	No problem with the head harness reported by the wearers during the practical performance test.

Lab B

7.14 FIELD OF VISION (EN 149:2001 + A1:2009 clause 8.4)

Test Method: Described in Clause 8.4

REQUIREMENT	RESULTS	COMMENT
The field of vision is acceptable if determined so in practical performance tests.	Pass	There were no adverse comments following practical performance tests.
Lab B	XI TECH	71.
7.15 EXHALATION VALVE (EN 149:2001 + A1:200	09 clause 8.2, 8	3.3.4, 8.8, 8.9.1)
Γest Method: Clause 8.2, 8.3.4, 8.8, 8.9.1		CO./2
REQUIREMENT	RESULTS	COMMENT

REQUIREMENT	RESULTS	COMMENT
A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	N/A	No exhalation valve in tested samples.
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	N/A	No exhalation valve in tested samples.
Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30s.	N/A	No exhalation valve in tested samples.
When the exhalation valve housing is attached to the face blank, it shall withstand axially a tensile force of 10N applied for 10s.	N/A	No exhalation valve in tested samples.

Lab -



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7.16 BREATHING RESISTANCE (EN 149:2001 + A1:2009 clause 8.9)

Test Method: Described in Clause 8.9

	REQU	IREMENT	RESULTS	COMMENT	
Classification	Max per	rmitted resistanc	e (mbar)		Classified as FFP2
	Inha	lation	Exhalation		
	30 I/min	30 l/min 95 l/min	160 l/min	Pass	Detail refer to Annex VIA-VIB
FFP1	0.6	2.1	3.0		Betan refer to Annex VIA-VIB
FFP2	0.7	2.4	3.0		
FFP3	1.0	3.0	3.0		

Annex VIA-Test Result:

The test results obtained are given in the tables as follows;

Inhalation Resistance

No. of	Condition * (/	Inha	alation Resistance	e (mbar)	
Sample		Flow rate 30 Vmin [mbar]	Requirements in accordance with EN 149:2001+A1:2009	Flow rate 95 l/min [mbar]	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconformity
42		0,43	9///	1.21		
43	As received	0.45	1/2	1.16	1	
44		0,41	FFP1 ≤ 0,60	1.09	FFP1 ≤ 2,10	
7	Simulated	0,47	11112000	1,32	111122,10	Passed
8	wearing	0,49	FFP2 ≤ 0.70	1.35	FFP2 ≤ 2.40	Qualifies
9	treatment	0.51		1.41		FFP1.FFP2.
23	Tr.	0,54	FFP3 ≤ 1.0	1,46	FFP3 ≤ 3,00	FFP3
24	Temperature conditioned	0,57		1.51	-0	
25	conditioned	0.53		1,55	11/2	

Exhalation Resistance

No. of Sample	Condition	Flow	Facing directly	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side	Requirements in accordance with EN 149:2001+A1:2009	Assessment of Test Result Conformity / Nonconfor mity
42			2,55	2.72	2.79	2,80	2.82		
43	As received		2.69	2.75	2.77	2,80	2.79		
44			2,66	2.71	2,79	2,81	2.80	FFP1 < 3.0	Passed
7	Simulated		2,69	2,73	2,77	2,79	2.83	1111 \(\sigma 5.0\)	Oualifies
8	wearing	1601/min	2.71	2,69	2.76	2.80	2.85	FFP2 ≤ 3.0	FFP1.
9	treatment		2,68	2,52	2,60	2,69	2.75		FFP2, FFP3
23	T		2.73	2,75	2,77	2.79	2.82	FFP3 ≤ 3.0	
24	Temperature conditioned		2,75	2.77	2,79	2.83	2.84		
25	conditioned		2,71	2.72	2,73	2.76	2.74		

Lab A



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7.17 CLOGGING (EN 149:2001 + A1:2009 clause 8.9, 8.10)

Test Method: Described in Clause 8.8, 8.10

REQUIREMENT	RESULTS	COMMENT	
Valved particle filtering half masks: After clogging the inhalation resistances shall not exceed: FFP1:4mbar, FFP2:5mbar, FFP3:7mbar at 95L/min continuous flow. The exhalation resistance shall not exceed 3mbar at 160L/min continuous flow. Valveless particle filtering half masks: After clogging the inhalation resistances shall not exceed: FFP1:3mbar, FFP2:4mbar, FFP3:5mbar at 95L/min continuous flow	NAs	This is optional test and not desired by client.	Y

Lab -

7.18 DEMOUNTABLE PARTS (EN 149:2001 + A1:2009 clause 8.2)

Test Method: Described in Clause 8.2

REQUIREMENT	RESULTS	COMMENT	
All demountable parts (if fitted) shall be readily connected and secured, where possible by hand	N/A	No demountable part.	

Tr.			
Lab -	ab -		
	· OZOGIA		
Pass	Requirement satisfied.		
NCR	Requirement not satisfied. Refer to the "Result details" section for more information.		
NAs	Assessment not carried out.		
N/A	Requirement not applicable.		

LABORATORY INFORMATION

Code	Laboratory Name	Competency Explanations
Lab A	UNIVERSAL SERTIFIKASYON VE GOZETIM HIZMETLERI TIC. LTD. STI.	Internal Laboratory Services of Notified Body
Lab B	GCNTR ULUSLARARASI BELGELENDIRME, GOZETIM, EGITIM VE DIS TICARET LIMITED SIRKETI KOCAELI DILOVA SUBESI	Laboratory holds an accreditation by Turkish Accreditation Agency with number AB-1252-T according to EN ISO/IEC 17025:2017.
	the laboratories is also under supervision / ass	NIVERSAL CERTIFICATION and the technical competence of sessment of UNIVERSAL CERTIFICATION based on the atts for bodies certifying products, processes and services standard. In with the issuing laboratory code.



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Sample Photo



- End of Report -



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