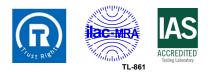


	half masks to protect against particles ERFORMED IN ACCORDANCE WITH:				
	protective devices - Filtering half masks to protect against particles -				
Test Report No.: R20200062					
Tested by (name + function + signature	re): Alex He Test Engineer Jurs He ature): Dyne Wang Laboratory Manager June Uhr				
Approved by (name + function + signa	ature): Dyne Wang Laboratory Manager				
Date of issue :	Jun 15 <sup>th</sup> , 2020				
Project No.:	P20200085				
Testing Laboratory	Trust Right Testing and Certification Service (Zhongshan) Ltd.				
Address	No.28, Shangjian Road, Nantou Town, Zhongshan Guangdong				
Testing Location	Trust Right Testing and Certification Service (Zhongshan) Ltd.				
Address	No.28, Shangjian Road, Nantou Town, Zhongshan Guangdong				
Applicant's name	UNIVERSAL CERTIFICATION and SURVEILLANCE SERVICES Trade Co.				
Address					
Manufacturer's name	JIANGMEN YANYANG TRADING CO.,LTD				
Address	NO.1, 4THFLOOR, BUILDING2, NO.18XINYIROAD, JIANGHAI DISTRICT, JIANGMENCITY, GUANGDONGPROVINCE, CHINA				
Factory's name	Same as manufacturer				
Address	Same as manufacturer				
=	Filtering half mask				
Trade Mark:	N/A				
Model/Type reference:	YY0525				
Grade	FFP2				
Country of destination (code):	N/A				
Sample					
Samples received on	Jun 5 <sup>th</sup> , 2020				
Reference samples	S202000YY				
Samples tested on	Jun 5 <sup>th</sup> , 2020 – Jun 15 <sup>th</sup> , 2020				
Result:	The test items PASSED/FAILED partially the test specification(s).				
	For detailed testing of items, please refer to the report and testing data.				
	whole or in part for non-commercial purposes as long as the Trust Right ngshan) Ltd. is acknowledged as copyright owner and source of the				

Testing and Certification Service (Zhongshan) Ltd. is acknowledged as copyright owner and source of the material. Trust Right Testing and Certification Service (Zhongshan) Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context. The results referred in this report are only relevant to the samples tested and described in this report.



RELEASE CONTROL RECORD						
TEST REPORT NUMBER REASON OF CHANGE DATE OF ISSUE						



### GENERAL DESCRIPTION OF THE APPLIANCE

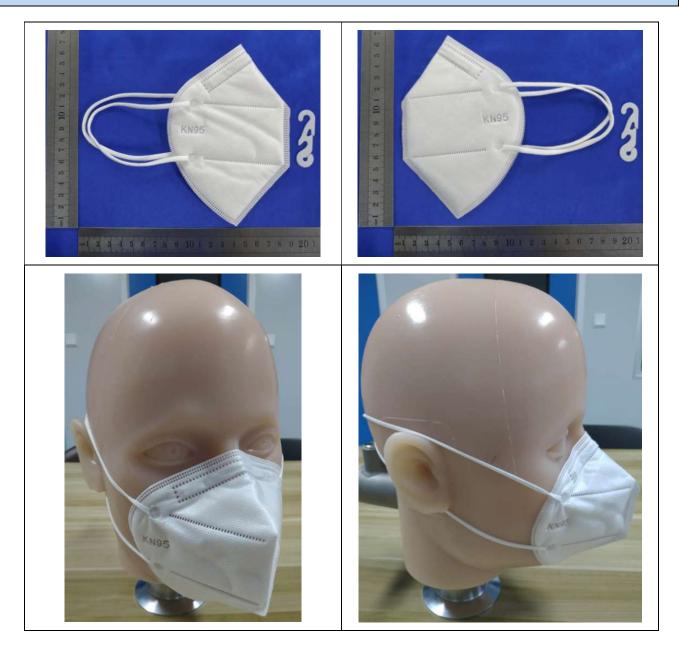
#### 1, Description of the appliances

Product description	Filtering half mask		
Product name	Filtering half mask		
Model	YY0525		
Classification	FFP2		



# **Test Report**

### PICTURES



PRINCIPALS COMPONENTS						
COMPONENT MANUFACTURER MODEL Certificate/report						



	Evaluation according to the test specifica	tion (standard)	
Abbreviatio	ons of the verdict:		
	P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested		
	+A1:2009 Respiratory protective devices - Filtering half mask s, testing, marking	s to protect against particle	S -
Clause	Requirements	Result/Comment	Verdict
1	Scope	1	
2	Normative references		
3	Terms and definitions		
4	Description		
5	Classification Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices:		Р
	- FFP1		N/A
	- FFP2	Designation is Grade FFP2.	Р
	- FFP3		N/A
6	Designation		Р
	Particle filtering half masks meeting the requirements of this European Standard shall be designated in the following manner:		
7	Requirements		Р
7.1	General		Р
	All test all test samples shall meet the requirements.		Р
7.2	Nominal values and tolerances		Р
	Except for temperature limits, values which are not stated as maxima or minima shall be subject to a tolerance of $\pm$ 5%. Unless otherwise specified, the ambient temperature for testing shall be(16-32)° C, and the temperature limits shall be subject to an accuracy of $\pm$ 1° C		Ρ
7.3	Visual inspection		Р
	The visual inspection shall also include the marking and the information supplied by the manufacturer.	In accordance with requirement	Р



7.4	Packaging		Р
	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.	In accordance with requirement	Р
7.5	Material		Р
	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. 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. Three particle filtering half masks shall be tested. When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse. Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	No mechanical failure after undergoing the conditioning described in 8.3.1. No collapse when conditioned in accordance with 8.3.1 and 8.3.2.	Ρ
7.6	Cleaning and disinfecting	Single shift use only.	N/A
7.7	Practical performance		Р
	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. Where practical performance tests show the apparatus has imperfections related to wearer's acceptance, the test house shall provide full details of those parts of the practical performance tests which revealed these imperfections.	No imperfections.	Р
7.8	Finish of parts		Р
	Parts of the devices likely come into contact with the wearer shall have no sharp edges or burrs.	No sharp edges or burrs.	Р
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	•	



7.9	Leakage		Р
7.9.1	Total inward leakage		Р
	The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected.		
	The total inward leakage consists of three components: face seal leakage, exhalation valve 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	Meeting requirement of 11 % for FFP2	Ρ
	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 Testing shall be done in accordance with 8.5.	Meeting requirement of 8 % for FFP2 Detail refer to table 1	
7.9.2	Penetration of filter material		Р
	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	Detail refer to table 2	Ρ
7.10	Compatibility with skin		Р
	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.	Ρ
7.11	Flammability		Р
	The material used shall not present a danger for the wearer and shall not be of highly flammable nature.	Detail refer to table 3	Р



			10001				
7.12	Carbon d	ioxide conten	t of the inhala	ation air		Р	
		on dioxide cor ace) shall not volume).			Detail refer to table 4	Р	
7.13	Head har	ness				Р	
	and remo	ness shall be designed can be donned ved easily and adjustable or self- and sufficiently robust to hold the				Р	
7.14	Field of vi	sion				Р	
	Field of vi performar	sion is accep nce tests.	table in pract	tical		Р	
7.15	Exhalation	n valve(s)					
	more exh correctly i If an exha protected mechanic include ar for the pa 7.9. Exhalation operate c flow of 30 When the the facebl	ny other devic rticle filtering n valve(s), if f orrectly after 0 l/min over a	s) and shall f ons. s provided it s resistant to nd may be sh ce that may b half mask to itted, shall co a continuous a period of 30 alve housing vithstand axia	function shall be dirt and prouded or may be necessary comply with ontinue to exhalation ) s. is attached to	, No exhalation valve	N/A	
7.16	Breathing	Breathing resistance					
	The breathing resistances apply to valved and valveless particle filtering half mask and shall meet the requirements of table 2.         Table 2 - Breathing resistance         Classification         Maximum permitted resistance (mbar)         inhalation         30 //min       95 //min         FFP1       0,6       2,1       3,0         FFP2       0,7       2,4       3,0         FFP3       1,0       3,0				Detail refer to table 5	Ρ	
7.17	Clogging					N/A	
7.18		able parts		Earloops with adjustable device	P		
1.10							
8	Testing						



9.1	Packaging						
	The following information shall be clearly and dura commercially available packaging or legible throug						
9.1.1	The name, trademark or other means of identification of the manufacturer or supplier.Not provided by the applicant;						
9.1.2	Type-identifying marking.	Not provided by the applicant;	N/T				
9.1.3	Classification: FFP1, FFP2, FFP3. "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D	"NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable.					
9.1.4	The number and year of publication of this European Standard.	Not provided by the applicant;	N/T				
9.1.5	At least the year of end of shelf life.	Not provided by the applicant;	N/T				
9.1.6	The sentence 'see information supplied by the manufacturer', at least in the official language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.						
9.1.7	The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d.	N/T					
9.1.8	The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D".	N/A					
9.2	Particle filtering half mask						
	Particle filtering half masks complying with this Eu durably marked with the following:	ropean Standard shall b	e clearly and				
9.2.1	The name, trademark or other means of identification of the manufacturer or supplier.	Not provided by the applicant;	N/T				
9.2.2	Type-identifying marking.	Not provided by the applicant;	N/T				
9.2.3	The number and year of publication of this European Standard.	The number and year of publication of this Not provided by the					
9.2.4	The symbols FFP1, FFP2 or FFP3 according to class.	The symbols FFP1, FFP2 or FFP3 according to Not provided by the					
9.2.5	If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the class designation (see 9.2.4).	If appropriate the letter D (dolomite) in accordance with clogging performance. This letter     Not provided by the applicant:     N/A					
9.2.6	Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.       Not provided by the applicant;       N/A						
10	Information to be supplied by the manufacturer						



10.1	Information supplied by the manufacturer shall accompany every smallest commercial available package	Not provided by the applicant;	N/T
10.2	Information supplied by the manufacturer shall be at least in the official language(s) of the country of destination	Not provided by the applicant;	N/T
10.3	The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on	Not provided by the applicant;	N/T
	<ul> <li>application/limitations</li> <li>the meaning of any colour coding</li> <li>checks prior to use</li> <li>donning, fitting</li> <li>use</li> <li>maintenance (e.g. cleaning, disinfecting), if applicable</li> <li>storage</li> <li>the meaning of any symbols/pictograms used</li> </ul>	Not provided by the applicant;	N/T
10.4	The information shall be clear and comprehensible. If helpful, illustrations, part numbers, marking shall be added.	Not provided by the applicant;	N/T
10.5	<ul> <li>Warning shall be given against problems likely to be</li> <li>encountered, for example:</li> <li>fit of particle filtering half mask (check prior to use)</li> <li>it is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal</li> <li>air quality (contaminants, oxygen deficiency)</li> <li>use of equipment in explosive atmosphere</li> </ul>	Not provided by the applicant;	N/T
10.6	The information shall provide recommendations as to when the particle filtering half mask shall be discarded.	Not provided by the applicant;	N/T
10.7	For devices marked "NR", a warning shall be given that the particle filtering half mask shall not be used for more than one shift.	Not provided by the applicant;	N/T



### **Test Report**

#### TEST DATA

Model	YY0525					
Classification			F	FP2		
Exercises	E1 (%)	E2 (%)	E3 (%)	E4 (%)	E5 (%)	TIL (%)
	8.7	8.7	8.6	6.7	8.9	8.3
	7.0	7.5	6.8	8.6	8.2	7.6
A.R.	7.5	6.8	7.3	6.9	7.1	7.1
	8.0	7.8	7.6	7.0	8.0	7.7
	8.9	7.6	7.6	7.4	7.5	7.8
	8.5	7.3	7.2	7.5	7.9	7.7
	7.5	8.1	6.8	7.7	6.9	7.4
T.C.	8.6	6.8	7.0	7.6	8.1	7.6
	7.1	8.4	6.7	7.4	7.8	7.5
	8.0	7.8	7.7	8.1	7.0	7.7
Requirement	8.07.87.7For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 outof the 50 individual exercise results (i.e. 10 subjects x 5 exercises) for total inward leakage shall be not greater than25 % for FFP1 11 % for FFP2 5 % for FFP3			arithmetic	t of the 10 indi means for the leakage be not greate <del>22 % for FFP</del> 8 % for FFP <del>2 % for FFP</del>	total inward r than 1 2
Result		Р			Р	

### Table 1 – 7.9.1 Total inward leakage

Testing Subject Family name of volunteer	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
Luo	128	149	116	54
Yuan	107	125	110	52
Liang	119	147	115	58
Chen	124	135	110	49
Yang	115	127	124	53
Chen	115	139	119	55
Zeng	109	123	115	52
Lai	118	135	117	55
Jiang	119	126	116	59
Feng	120	145	119	54



### Table 2 – 7.9.2 Penetration of filter material

Model	YY0525							
Classification	FFP2							
Test flow rate (l/min)	95							
Test aerosol	Sodium chloride Paraffin oil							
Sample performed	A.R.	S.W.	M.S.+T.C.	A.R.	S.W.	M.S.+T.C.		
Measured	1.4	1.3	1.6	3.0	3.5	4.7		
Penetration	1.3	1.3	1.6	3.4	3.5	4.1		
(%)	1.2	1.4	1.5	3.3	3.4	4.5		
Required (%)	FFP2: ≤ 6			FFP2: ≤ 6				
Result	Р	Р	Р	Р	Р	Р		

### Table 3 – 7.11 Flammability

Condition	Result	Assessment			
As received	Burn for 1s				
Asteceiveu	Burn for 1s	Р			
Tomporature conditioned	Burn for 1s	Г			
Temperature conditioned	Burn for 2s				
Required: 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.					



### Table 4 – 7.12 Carbon dioxide content of the inhalation air

Model	YY0525						
Samples	Sample 1	Sample 2	Sample 3				
Measured CO <sub>2</sub> (%)	0.2	0.3					
Average CO <sub>2</sub> (%)	0.3						
Required	The carbon dioxide content of the inhalation air (dead spac shall not exceed an average of 1,0 % (by volume)						
Result	Р						

### Table 5 – 7.16 Breathing resistance

	YY0525																
	Flow rate		1				2				3						
			A	В	С	D	Е	А	В	С	D	Е	A	В	С	D	Е
A.R Inhalatio	Inhalation	30 l/min	0.3	0.4	0.3	0.3	0.3	0.2	0.4	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3
7	Innalation	95 l/min	1.6	1.5	1.7	1.6	1.6	1.5	1.5	1.6	1.5	1.6	1.6	1.7	1.6	1.6	1.6
	Exhalation	160 l/min	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.1	2.1	2.1
			4					5				6					
	Flow rate		А	В	с	D	Е	А	В	С	D	Е	А	В	с	D	Е
S.W.	la halati an	30 l/min	0.3	0.4	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
	Inhalation	95 l/min	1.5	1.7	1.5	1.6	1.6	1.5	1.5	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.6
	Exhalation	160 l/min	2.1	2.0	2.0	2.1	2.0	2.0	2.0	2.0	2.0	2.2	2.2	2.1	2.0	2.1	2.1
		<b>_</b>		7				8				9					
	Flow	rate	А	В	С	D	Е	А	В	С	D	Е	А	В	С	D	Е
T.C.		30 l/min	0.3	0.3	0.3	0.4	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2	0.3	0.2	0.2
	Inhalation	95 l/min	1.6	1.6	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.5	1.7
	Exhalation	160 l/min	2.0	2.1	2.2	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.1	2.0	2.1	2.1	2.2
Result	P																
A: facing directly ahead;																	
B: facing v	B: facing vertically upwards;																
C: facing	C: facing vertically downwards;																
D: lying or	lying on the left side;																
E: lying or	lying on the right side;																



### **Test Report**

#### Equipement

#### List of test equipment used:

Serial No	Description	Model/Trade Mark	Next Calibration Date				
ZSTE-001	Ambient Barometer	DYM3	24 <sup>th</sup> Jun. 2021				
ZSTE-002	Ambient temperature and Humidity recorder	Cos-03	9 <sup>th</sup> Apr. 2021				
ZSTE-009	Digital Pressure Gauge	BG80-B-21F-0N21	2 <sup>nd</sup> Apr. 2021				
ZSTE-017	Two Row Stopwatch	PC2810	6 <sup>th</sup> Apr. 2021				
ZSTE-030	Digital Data Collector	34970A	2 <sup>nd</sup> Apr. 2021				
ZSTE-030.01	20-Channel Armature Multiplexer	34901A	2 <sup>nd</sup> Apr. 2021				
ZSTE-070	Pull-Push Force tester	NK-300	3 <sup>rd</sup> Apr. 2021				
ZSTE-082	Digital Vernier Caliper	0-200_0.01mm	11 <sup>th</sup> Apr. 2020				
ZSTE-083	Wind Speed Meter	Testo416	19 <sup>th</sup> Jun. 2020				
ZSTE-108	Electronic Scale	JJ224BC	29 <sup>th</sup> May. 2020				
ZSTE-115	Graduated Cylinder	100ml	28 <sup>th</sup> May. 2024				
ZSTE-122	Beaker	500ml	28 <sup>th</sup> May. 2024				
ZSTE-140	Weight	1kg	19 <sup>th</sup> Jun. 2022				
ZSTE-200	Aerosol generator	TDA-5B	14 <sup>th</sup> May. 2021				
ZSTE-215	Air quality analyzer	M2000	24 <sup>th</sup> June. 2021				
ZSTE-216	Air quality analyzer	M2000	24 <sup>th</sup> June. 2021				
TSGK-T-005	Penetration of Filter Material Tester	LSK	9 <sup>th</sup> Mar. 2021				
TSGK-T-056	Breath Resistance Tester	RL 2051C	5 <sup>th</sup> May. 2021				
TSGK-T-002	Flammability	KP415	9 <sup>th</sup> Mar. 2021				
TSGK-T-045	Leakage with Enclosure	RL 2001	5 <sup>th</sup> May. 2021				

#### END TEST REPORT