



中国认可
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检测
TESTING
CNAS L1225



TEST REPORT

Report No.: 4478420080596

Product Name: KN95 PROTECTIVE MASK

Product Model: 2020-1XG

BRAND: _____

Applicant: Guangzhou Hongying Industry Co.,Ltd.



CHINA CERTIFICATION & INSPECTION GROUP SHENZHEN CO., LTD.
SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD.





Report No.:4478420080596

Date: 09 09, 2020

Test Report

Applicant	Guangzhou Hongying Industry Co.,Ltd.		
Address	Room201,No.4,2nd Street,Longhu Industrial Zone, Baiyun Street, Baiyun District, Guangzhou, China		
Manufacturer	Guangzhou Hongying Industry Co.,Ltd.		
Address	Room201,No.4,2nd Street,Longhu Industrial Zone, Baiyun Street, Baiyun District, Guangzhou, China		
Product name	KN95 PROTECTIVE MASK		
Product model	2020-1XG		
Product quantity	100PCS		
Size	15.2X11cm		
Product state	Meeting the requirements of testing		
Testing Laboratory	Shenzhen huatongwei international inspection Co., Ltd.		
Test Location	1/F, Bldg. 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, Guangdong, China		
Test standard	EN 149:2001+A1:2009 Respiratory protective devices — Filtering half masks to protect against particles — Requirements, testing, marking		
Test requested	As specified by applicant, for details refer to page 3.		
Test results	Refer to page 3.		
Remark	The product information was provided by applicant. The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing Testing Laboratory.		
Received date	08 28, 2020	Date (s) of performance of tests	08 28, 2020~09 09, 2020

Signed:

Issued: 2020-08-26

Authorized Signatory, Lab
Director





Sample Description:	White mask
Type of use	<input type="checkbox"/> Re-useable particle filtering half mask <input checked="" type="checkbox"/> Single shift only particle filtering half mask
Classification	<input type="checkbox"/> FFP1 <input checked="" type="checkbox"/> FFP2 <input type="checkbox"/> FFP3
Exhalation Valve(s)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Inhalation Valve(s)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Possible test case verdicts:	<ul style="list-style-type: none"> - test case does not apply to the test object N/A - test object does meet the requirement P (Pass) - test object does not meet the requirement F (Fail) - test case does not be required to the object N/R (Not required)
Possible abbreviations	
As received	A.R.
Simulated Wearing treatment	S.W.
Temperature conditioned	T.C.
Flow conditioned	F.C.
Cleaning and disinfecting	C.D.
Mechanical strength	M.S.
Environmental condition of testing in this report:	
1) Unless otherwise specified, the ambient temperature for testing shall be 25±5°C ; 2) Temperature conditioned: 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.	



Test Requested:

REQUIRMENT	Test clause	Applicant	Result	
			P	F
7.3 Visual inspection	8.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.4 Packaging	8.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.5 Material	8.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.6 Cleaning and disinfecting	8.4, 8.5, 8.11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.7 Practical performance	8.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.8 Finish of parts	8.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.9.1 Total inward leakage	8.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.9.2 Penetration of filter material	8.11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.10 Compatibility with skin	8.4, 8.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.11 Flammability	8.6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.12 Carbon dioxide content of the inhalation air	8.7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.13 Head harness	8.4, 8.5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.14 Field of vision	8.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.15 Exhalation valve(s)	8.2, 8.3.4, 8.8, 8.9.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.16 Breathing resistance	8.9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.17 Clogging	8.10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.18 Demountable parts	8.2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Test Results:

Test item(s)		Test section	Limit/Requirement	Measured values	Verdict
Visual inspection		8.2	Requirement clause:7.3,7.4,7.5,7.6, 7.15,7.18	The products meet the technical requirements of the corresponding terms of the standard	Pass
Material		8.2	After undergoing S.W., none of the particle filtering half masks shall have suffered mechanical failure of the face piece or straps.	Sample 1: neither face piece nor straps have mechanical failure	Pass
				Sample 2: neither face piece nor straps have mechanical failure	
				Sample 3: neither face piece nor straps have mechanical failure	
			After undergoing S.W. and T.C., none of the particle filtering half masks shall not collapse.	Sample 4: no collapse	
				Sample 5: no collapse	
				Sample 6: no 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.	Not constitute a hazard or nuisance for the wearer.	
Practical performance	Head harness comfort	8.4	Head harness should be comfort.	1#: the head harness of comfortable wearing 2#: the head harness of comfortable wearing	Pass
	security of fastenings	8.4	Fastenings are safe and reliable	1#: All fastenings are firm. 2#: All fastenings are firm.	
	field of vision	8.4	field of vision is acceptable	1#: Has a wider visual field 2#: Has a wider visual field	
Total inward leakage		8.5	At least 46 out of the 50 individual exercise results shall be not greater than 11%; And in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than 8%	Refer to table 2	Pass

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Penetration of filter material (%)	Sodium chloride	8.11	≤6	A.R.	0.25	0.19	0.10	Pass
				S.W.	0.29	0.54	0.48	
				M.S+T.C.	1.66	1.70	1.69	
	Paraffin oil		≤6	A.R.	0.58	0.67	0.61	Pass
				S.W.	1.04	1.17	1.19	
				M.S+T.C.	2.54	3.16	2.72	
Flammability	8.6	When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5s after removal from the flame.	A.R.	Sample 1: Sample is no burning			Pass	
				Sample 2: Sample is no burning				
			T.C.	Sample 3: Sample is no burning				
				Sample 4: Sample is no burning				
Carbon dioxide content of the inhalation air (%)	8.7	≤1.0 (by volume), A.R. tested	Sample 1	0.38			Pass	
			Sample 2	0.43				
			Sample 3	0.45				
			Average	0.42				
Head harness	8.4	The head harness shall be designed so that the particle filtering half mask can be donned and removed easily The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position	A.R.	All of 5 pieces particle filtering half mask meet the requirements			Pass	
	8.5			T.C.	All of 5 pieces particle filtering half mask meet the requirements			
Field of vision		8.4	The field of vision is acceptable if determined so in practical performance tests.	The two masks both have an acceptable visual field			Pass	
Breathing resistance (mbar)	Inhalation 30L/min	8.9	≤0.7	For details see attached table 1			Pass	
	Inhalation 95L/min		≤2.4					
	Exhalation 160L/min		≤3.0					

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Table 1 Breathing resistance

Test item		Technical requirements	Defined positions	Condition			Single Item decision	
				A.R.	S.W.	T.C.		
Breathing resistance (mbar)	Inhalation 30L/min	≤0.7	—	0.5	0.5	0.4	Pass	
				0.5	0.5	0.5		
				0.5	0.5	0.5		
	Inhalation 95L/min	≤2.4	—	1.7	1.7	1.6	Pass	
				1.6	1.6	1.5		
				1.7	1.6	1.6		
	Exhalation 160L/min	≤3.0	A	2.7	2.5	2.4	Pass	
				2.7	2.6	2.3		
				2.6	2.5	2.4		
				B	2.7	2.6		2.6
					2.6	2.5		2.6
					2.6	2.5		2.6
				C	2.7	2.6		2.6
					2.7	2.6		2.5
					2.7	2.6		2.5
D	2.6	2.6	2.6					
	2.6	2.7	2.6					
	E	2.7	2.7	2.5				
2.6		2.6	2.5					
2.6		2.6	2.5					

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



Table 2 Total inward leakage

Subject	Sample No.	Condition	Walk (%)	Head Side/side (%)	Head Up/down (%)	Talk (%)	Walk (%)	Mean (%)
Hu	1	A.R.	1.3	1.5	1.8	4.0	2.1	2.1
Xia	2	A.R.	6.0	6.7	4.9	5.6	5.9	5.8
Wu	3	A.R.	3.2	3.3	3.5	4.0	4.9	3.8
Lei	4	A.R.	6.4	5.9	8.2	7.1	5.9	6.7
Cai	5	A.R.	2.7	2.8	3.4	4.5	3.0	3.3
Zhou	6	T.C.	3.1	3.5	3.8	4.4	3.4	3.6
Wang	7	T.C.	2.2	2.5	3.4	5.1	2.6	3.2
Zhu	8	T.C.	4.1	5.2	5.4	6.0	4.7	5.1
Yang	9	T.C.	3.3	4.0	4.1	5.3	3.9	4.1
Lin	10	T.C.	2.8	3.0	3.9	4.4	4.1	3.6
Maximum permitted			11					8
<p>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.</p>								

Facial dimension

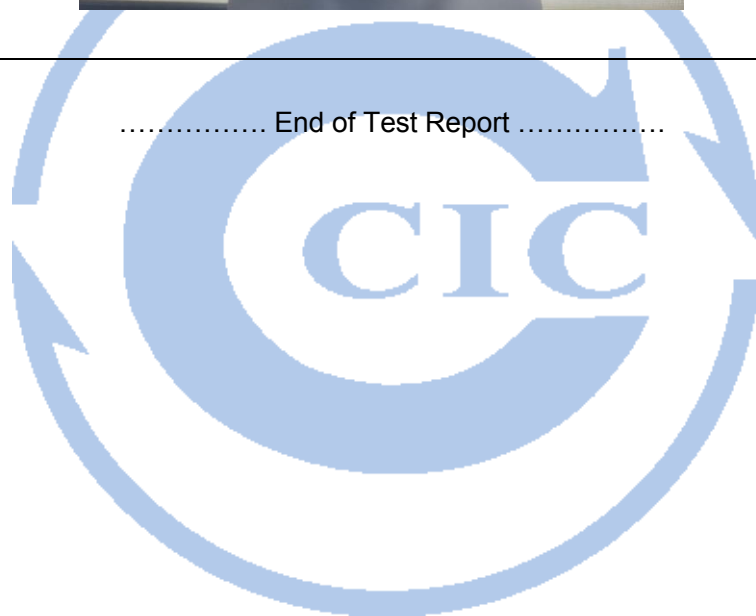
Subject	Face length(mm)	Face width(mm)	Face Depth(mm)	Mouth Width(mm)
Hu	103	122	100	53
Xia	123	130	119	62
Wu	110	121	102	60
Lei	120	129	125	65
Cai	121	130	126	62
Zhou	130	131	125	68
Wang	132	132	126	69
Zhu	113	120	115	59
Yang	115	119	113	57
Lin	121	120	125	63



Annex Photo of Testing Sample



..... End of Test Report



5.1.1.1