



Test Report

Report No: MTI20111105P001

Date of issue: Nov 17, 2020

Client	Shenzhen HJR Electronics Technology Co.,LTD.
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Manufacturer	Shenzhen HJR Electronics Technology Co.,LTD.
O.C.	The Co
Product	Particle filtering half mask
	The This
Model	HJR-CN99-11B
7	W. CO.
Test Type	Commissioned inspection



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C	Microtest 微测检测		Page 1 of 7	Repo	ort No.:MTI20111105P001			
776	Product	Parti	cle filtering half mask	Sample	No. MTI20111105- 1-S0001			
	Brand/Trademark	00	HJR	Model	HJR-CN99-11B			
	Client	100	zhen HJR Electronics chnology Co.,LTD.	Test Typ	oe Commissioned inspection			
nenth.	Client Address	Scie Indu Guange Street, 0	Building A3 Xinjianxing ence and Technology strial Park, No. 3333, qiao Avenue, Gongming Guangming New District, zhen City, Guangdong Province, China	MILITIMA	all me			
201	Date of Tests		2020.11.	11-2020.11.16	- Che			
5	Test Specification	VI.	EN 149:2	2001+A1:2009				
	Basis of Judgment	S.	EN 149:2	2001+A1:2009	الم			
and	Classification		1) FE	P2 NR	OLU P			
W60	5	-0	77		7			
	Test Result	The sample has been tested and the test items meet the require of EN 149:2001+A1:2009.						
- OLIVE	Remarks		the report means this it is this item is blank,"N/A' app					
Co	Item Name)	File No	//	Uncertainty			
	Penetration of material	filter	MTI-SOP-PH-U005	Neri	U _{rel} =2.1%,k=2			
1	Carbon dioxide co		MTI-SOP-PH-U007		$u_{rel} = 1.8\%, k=2$			

Penetration of filter material	MTI-SOP-PH-U005	$u_{rel} = 2.1\%, k=2$				
Carbon dioxide content of the inhalation air	MTI-SOP-PH-U007	U _{rel} = 1.8%,k=2				
Total inward leakage	MTI-SOP-PH-U008	U _{rel} =1.8%,k=2				
1200		30L/min	$U_{rel} = 2.5\%, k=2$			
Breathing resistance	MTI-SOP-PH-U006	95L/min	$u_{rel} = 2.4\%, k=2$			
	00,	160L/min	U _{rel} =2.3%,k=2			

Compiled:

Reviewed:

Approved:

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		Micr©test 微测检测		Page 2 of 7 Rep	port No.:MTI20111105	P001
1774	No.	Test Items	Spec Chapter	Requirements	Test Data	Assess ment
	1	Visual inspection	7.3	The visual inspection shall also include the marking and the information supplied by the manufacturer.	Meet the requirements	Pass
1	2	Material	7.5	Meet the requirements of 7.5	Meet the requirements	Pass
Ver,	3	Practical performance	7.7	The particle filtering half mask shall undergo practical performance tests under realistic conditions.	Meet the requirements	Pass
	4	Finish of parts	7.8	Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.	Meet the requirements	Pass
3/19	5	Menth	45	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	C)	Sh
	5	Total inward leakage	7.9.1	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.	Test results are shown in Annex A Table 7.9.1-A&B.	Pass
C 05	6	Penetration of filter material	7.9.2	Sodium chloride test 95l/min:FFP1≤20%,FFP2≤6%, FFP3≤1%. Paraffin oil test 95l/min:FFP1≤20%,FFP2≤6%, FFP3≤1%.	Test results are shown in Annex A Table 7.9.2.	Pass
	3	Compatibility with skin	7.10	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.	Meet the requirements	Pass
V.e.	8	Flammability	7.11	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.	A.R.: 29#:not burn 30#: not burn T.C.: 31#: not burn 32#: not burn	Pass
entr	9	Carbon dioxide content of the inhalation air	7.12	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).	A.R.: 33#:0.79% 34#:0.80% 35#:0.83% Mean:0.81%	Pass

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Report No.:MTI20111105P001

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10	Head harness	7.13	Meet the requirements of 7.13	Meet the requirements	Pass
11	Field of vision	7.14	The field of vision is acceptable if determined so in practical performance tests.	Meet the requirements	Pass
12	Exhalation valve(s)	7.15	Meet the requirements of 7.15	Only applicable to Exhalation valve(s) Particle filtering half mask.	N/A
13	Breathing resistance	7.16	Inhalation 30 I/min:FFP1≤0.6mbar,FFP2≤0.7mb ar,FFP3≤1.0mbar. Inhalation 95 I/min:FFP1≤2.1mbar,FFP2≤2.4mb ar,FFP3≤3.0mbar. Exhalation 160 I/min:FFP1≤3.0mbar,FFP2≤3.0mb	Test results are shown in Annex A Table 7.16.	Pass
	a la		ar,FFP3≤3.0mbar.		5
14	Demountable parts	7.18	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.		N/A
Note:	A.R.:As received T.C.:Temperature condit		W.: Simulated wearing treatment C.:Flow conditioning	M.S.:Mechanical str	ength
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Page 4 of 7

Report No.:MTI20111105P001

Annex A:Summarization of Test Data

Table 7.9.1-A Total inward leakage test data

Test specification: EN 149:2001+A1:2009 Clause 8.5

Subject	No.	Condition	Walk(%)	Head Side/side(%)	Head Up/down(%)	Talk(%)	Walk(%)	Mean(%)
Harper	1#	A.R.	2.46	2.90	4.12	5.65	4.13	3.85
John	2#	A.R.	3.50	5.20	6.63	5.02	3.74	4.82
Margaery	3#	A.R.	2.66	5.19	4.15	3.70	2.79	3.70
Noak	4#	A.R.	3.39	3.04	2.76	2.41	4.15	3.15
Shane	5#	A.R.	3.77	3.78	3.85	4.76	3.76	3.98
Baron	6#	T.C.	2.50	3.36	2.16	1.51	1.43	2.19
Elaine	7#	T.C.	3.95	4.74	3.69	3.48	2.59	3.69
Lucy	8#	T.C.	2.49	3.50	3.47	4.38	3.48	3.46
Lani	9#	T.C.	2.54	2.53	2.89	3.76	2.94	2.93
Hong	10#	T.C.	5.08	5.53	5.98	4.22	4.91	5.14

Table 7.9.1-B Facial dimension

Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
Harper	133	149	116	65
John	122	140	123	58
Margaery	125	142	125	54
Noak	110	138	115	57
Shane	110	142	122	60
Baron	110	140	105	56
Elaine	102	142	103	59
Lucy	99	142	108	55
Lani	135	150	130	51
Hong	106	138	115	57



Page 5 of 7

Report No.:MTI20111105P001

Table 7.9.2 Penetration of filter material

Test specification:EN 149:2001+A1:2009 Clause 8.11

	-0			0.3
Aerosol	Condition	Sample No.	Average penetration after 3min (%)	Maximum penetration during exposure (%)
,0	-OKIN	11#	0.25	1
117	As received	12#	0.10	1/Ve
Nec	1/2	13#	0.11	ver,
Sodium chloride test	S, Co,	14#	0.07	3) 1 0
Flow: 95L/min Aerosol	Simulated wearing treatment	15#	0.09	, 9
concentration: 11 mg/m ³		16#	0.05	31
	Vi er	17#		0.12
, che	Mechanical strength+ Temperature conditioned	18#	1 -05	0.17
	che,	19#	R	0.14
Es	1	20#	0.23	-42°
0.	As received	21#	0.26	30, 1
W. B.	5	22#	0.19	
Paraffin oil		23#	0.18	1731
test Aerosol concentration:	Simulated wearing treatment	24#	0.17	er 1 ce
21 mg/m ³	03/11	25#	0.19	1/2-
120	.c.o'''	26#	Su.	0.43
172	Mechanical strength+ Temperature conditioned	27#	1	0.70
, H		28#	(1) 1 Ve	0.51

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Page 6 of 7

Report No.:MTI20111105P001

Table 7.16 Breathing resistance(mbar)

Test specification: EN 149:2001+A1:2009 Clause 8.9

	Flow rate		~O'		36#	4	1		165	37#	10			NE	38#		
~			А	В	С	D	E	Α	В	С	D	E	А	В	С	D	E
As received	Tab alakaa s	30 l/min	0.53	0.53	0.54	0.54	0.53	0.56	0.55	0.55	0.54	0.54	0.51	0.52	0.51	0.52	0.53
Zr.	Inhalation	95 l/min	1.84	1.84	1.85	1.86	1.85	1.86	1.87	1.87	1.86	1.85	1.81	1.82	1.82	1.83	1.84
	Exhalation	160I/min	2.88	2.88	2.89	2.90	2.90	2.90	2.90	2.91	2.91	2.90	2.92	2.93	2.93	2.92	2.91
)	39#		00			40#	3			~	41#		100
Simulated	Flow	rate	А	В	С	D	E	Α	В	C	D	Е	A	В	С	D	E
Simulated wearing	Inhalation	30 l/min	0.54	0.54	0.54	0.55	0.55	0.57	0.58	0.57	0.56	0.56	0.57	0.57	0.57	0.56	0.55
treatment		95 l/min	1.86	1.86	1.87	1.87	1.87	1.86	1.87	1.87	1.86	1.85	1.85	1.86	1.86	1.87	1.87
	Exhalation	160l/min	2.92	2.93	2.93	2.93	2.92	2.94	2.95	2.96	2.95	2.94	2.95	2.96	2.95	2.95	2.94
	C			1	42#	\$ X	IX		20 0	43#	0	* *			44#		THE STATE OF THE S
	Flow	rate	A	В	С	D	E	Α	В	С	D	E	А	В	С	D	E
Temperature conditioned	Inhalation	30 l/min	0.55	0.56	0.57	0.56	0.56	0.55	0.55	0.56	0.56	0.55	0.54	0.54	0.55	0.55	0.54
0	Inhalation	95 l/min	1.81	1.82	1.82	1.83	1.83	1.82	1.83	1.83	1.84	1.84	1.79	1.80	1.81	1.81	1.82
Jan,	Exhalation	160l/min	2.94	2.95	2.94	2.93	2.93	2.92	2.93	2.93	2.94	2.94	2.92	2.92	2.93	2.93	2.94

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

Page 7 of 7

Report No.:MTI20111105P001

Pictures

1.Test Address:

101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China.

2.Client Address:

5 / F Building A3 Xinjianxing Science and Technology Industrial Park, No. 3333, Guangqiao Avenue, Gongming Street, Guangming New District, Shenzhen City, Guangdong Province, China

3.Test environmental/conditions:

The test items are carried out under the conditions specified in the corresponding specifications (except where noted)

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