TEST REPORT



Report No.: JKF21004453 Internal No.: FL21000081

Applicant : Jiangsu Jinlu Group Medical Device Co.,LTD

Zhejiang Academy of Science and Technology for Inspection and Quarantine Add: No. 398, Jianshe 3 Road, Xiaoshan District, Hangzhou, Zhejiang, China Tel: +86 0571 8352 7187/185/193 Website: www.zaiq.org.cn



Sample	Sample Name:	Filtering Half Mask				
Information	Style No.:	JL01				
	Applicant:	Jiangsu Jinlu	Group Medical Dev	ice Co.,LT	D	
Customer	Address:	Jinfeng Town	, Zhangjiagang City,	Jiangsu Pi	rovince, PRC	
Information	Manufacturer:	Jiangsu Jinlu	Group Medical Dev	ice Co.,LT	D	
	Manufacturer address:	Jinfeng Town	, Zhangjiagang City,	Jiangsu Pi	rovince, PRC	
The informa	tion are confirmed by testi	ng organizatio	n:			
	Date of sample received:	2021-02-01	Testing period:	2021-02	-01 to 2021-02-07	
	Quantity:	100 Pieces				
Test Information	Sample description:	White mask				
mormation	Basis of judgment:	Respiratory p	+A1:2009 FFP2 NR rotective devices—H les —Requirements,	Filtering ha	-	
Test Conclusion	The items tested meet the r	equirements of	EN 149:2001+A1:2	009 FFP2 1	NR	
Test Result	Please refer to next pages.					
Remark	/					
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Test Results:

Clause 7.4 Packaging

(EN 149:2001+A1:2009 Clause 8.2)

Requirement	Results	Rating
Particle filtering half masks shall be offered for sale packaged in such a way that	Comply	Dece
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)

Requirement	Results	Rating
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.	Comply	Pass
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask	Comply	Pass
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.		

Clause 7.6 Cleaning and disinfecting

(EN 149:2001+A1:2009 Clause 8.4 & 8.5 & 8.11)

Requirement	Results	Rating
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	Not applicable	
manufacturer.	(Not designed to	N/A
With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering	be re-usable)	
half mask shall satisfy the penetration requirement of the relevant class.		

Clause 7.7 Practical performance

(EN 149:2001+A1:2009 Clause 8.4)

Requirement	Results	Rating
The particle filtering half mask shall undergo practical performance tests under		
realistic conditions. These general tests serve the purpose of checking the equipment	No immente etiene	Dess
for imperfections that cannot be determined by the tests described elsewhere in this	No imperfections	Pass
standard.		

Clause 7.8 Finish of parts

(EN 149:2001+A1:2009 Clause 8.2)

Requirement	Results	Rating
Parts of the device likely to come into contact with the wearer shall have no sharp	No sharp edges or	Pass
edges or burrs.	burrs	r ass



Clause 7.9.1 Total inward leakage

(EN 149:2001+A1:2009 Clause 8.5)

Requirement	Results	Rating
For particle filtering half masks fitted in accordance with the manufacturer's	48 out of the 50	
information, at least 46 out of the 50 individual exercise results (i.e. 10 subjects x 5	individual	
exercises) for total inward leakage shall be not greater than:	exercise≤11%	
25% for FFP1, 11% for FFP2, 5% for FFP3	10 out of the 10	Pass
and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the	individual wearer	
total inward leakage shall be not greater than:	arithmetic means	
22% for FFP1, 8% for FFP2, 2% for FFP3	≪8%	

	Table 7.9.1-A Inward leakage test data							
Subject	Sample No.	Condition	Walk	Head side/side	Head up/down	Talk	Walk	Mean
			(%)	(%)	(%)	(%)	(%)	(%)
CQQ	1		4.087	5.598	4.899	9.010	5.666	5.852
WLJ	2		4.985	5.827	5.878	8.352	6.416	6.291
WG	3	As received	6.112	6.247	6.579	8.854	6.058	6.770
ZJH	4		4.986	5.255	5.579	8.810	4.798	5.885
TLB	5		4.359	4.501	5.399	8.610	5.234	5.621
ZMY	6		6.729	6.148	6.924	10.514	6.586	7.380
LJF	7	. .	6.752	6.328	6.518	11.657	7.639	7.779
HML	8	Temperature conditioned	6.397	6.179	6.475	11.176	7.727	7.591
RK	9	conditioned	5.828	5.516	5.944	10.322	6.177	6.757
ZD	10		4.040	4.436	4.551	8.678	5.248	5.391

Table 7.9.1-B Facial dimensions

Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
CQQ	136	167	125	65
WLJ	132	159	110	60
WG	120	152	109	57
ZJH	122	150	104	50
TLB	125	152	111	57
ZMY	137	150	120	60
LJF	125	135	90	55
HML	124	130	115	55
RK	112	161	146	50
ZD	116	160	115	55



Clause 7.9.2 Penetration of filter material

(EN 149:2001+A1:2009 Clause 8.11 & EN 13274-7:2019)

	Requirement					Rating
The p	The penetration of the filter of the particle filtering half mask shall meet the					
requir	requirements of the following table.					
	Classification	Sodium chloride test	Paraffin oil test		Data'il nafan ta	Pass
		95 L/min	95 L/min		Detail refer to	
	FFP1	≤20%	≤20%		Table 7.9.2	
	FFP2	≪6%	\leqslant 6%			
	FFP3	≤1%	≤1%			

 Table 7.9.2 Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)
		11	0.071
	As received	12	0.060
		13	0.091
		14	0.014
Sodium chloride test	Simulated wearing treatment	15	0.030
	treatment	16	0.031
	Mechanical strength+ Temperature conditioned	17	0.017
		18	0.155
		19	0.185
	As received	20	2.719
		21	3.119
		22	2.179
		23	3.026
Paraffin oil test	Simulated wearing	24	2.447
	treatment	25	2.432
	Mashaniaal atomatik	26	5.839
	Mechanical strength+	27	5.226
	Temperature conditioned	28	5.724
	Flow conditioning	: single filter: 95.0 L/1	min

Clause 7.10 Compatibility with skin

(EN 149:2001+A1:2009 Clause 8.4 & 8.5)

Requirement	Results	Rating
Materials that may come into contact with the wearer's skin shall not be known to be	No irritation or	
-	any other adverse	Pass
likely to cause irritation or any other adverse effect to health.	effect to health	



Clause 7.11 Flammability

(EN 149:2001+A1:2009 Clause 8.6)

Requirement			Results	Rating
When tested, the particle filtering half mask shall not burn or not to continue to burn			Detail refer to	Pass
for more than 5s after removal from	the flame.		Table 7.11	Pass
	mability			
Condition	Sample No.	Result		
As received	29	Not burn		
As received	30	Not burn		
Temperature conditioned	31	Not burn		
Temperature conditioned	32		Not burn	

Clause 7.12 Carbon dioxide content of the inhalation air

(EN 149:2001+A1:2009 Clause 8.7)

H	Results	Rating			
The carbon dioxide content of the in	inhalation air (dead space) shall not exceed an Detail refer to				
average of 1.0 % (by volume).			Table 7.12	Pass	
Table 7.12 Carbon dioxide content of the inhalation air					
Condition	Sample No.	Result (%)			
	33	0.88	Mean value:		
As received	34	0.87			
	35	0.87	0.87		

Clause 7.13 Head harness

(EN 149:2001+A1:2009 Clause 8.4 & 8.5)

Requirement	Results	Rating
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	Comply	Pass
to hold the particle filtering half mask firmly in position and be capable of		
maintaining total inward leakage requirements for the device.		

Clause 7.14 Field of vision

(EN 149:2001+A1:2009 Clause 8.4)

Requirement	Results	Rating
The field of vision is acceptable if determined so in practical performance tests.	Comply	Pass



Clause 7.15 Exhalation valve

(EN 149:2001+A1:2009 Clause 8.2 & 8.9.1 & 8.3.4 & 8.8)

Requirement	Results	Rating
A particle filtering half mask may have one or more exhalation valve(s), which shall		
function correctly in all orientations.		
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	Not applicable	
may be necessary for the particle filtering half mask to comply with 7.9.	(No exhalation	N/A
Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous	valve)	
exhalation flow of 300 L/min over a period of 30 s.		
When the exhalation valve housing is attached to the faceblank, it shall withstand		
axially a tensile force of 10 N applied for 10 s.		

Clause 7.16 Breathing resistance

(EN 149:2001+A1:2009 Clause 8.9

		Requi	rement			Results	Rating
-		-	filtering half ma	sk shall meet the			
requirements of	t the follow	ing table.			_		
		Maximum	permitted resista	ance (mbar)			
Class	sification	Inhal	ation	Exhalation		Detail refer to Table 7.16	Pass
		30L/min	95L/min	160L/min			
FFP1	-	0.6	2.1	3.0			
FFP2	2	0.7	2.4	3.0			
FFP3	3	1.0	3.0	3.0			
		Ta	hlo 7 16 Droothi	na ragistanaa (mb			•

 Table 7.16 Breathing resistance (mbar)

Test item	Condition	Sample No.	А	В	С	D	E
	As received	36	0.55	0.55	0.55	0.55	0.55
		37	0.52	0.53	0.53	0.52	0.52
		38	0.53	0.53	0.53	0.53	0.53
Inhalation		39	0.52	0.52	0.52	0.52	0.52
	Simulated wearing	40	0.52	052	0.52	0.52	052
(50 L/IIIII)	(30 L/min) treatment Temperature conditioned	41	0.52	0.51	0.52	0.52	0.52
		42	0.52	0.52	0.52	0.52	0.52
		43	0.48	0.48	0.49	0.48	0.49
		44	0.50	0.51	0.51	0.51	0.50





Test item	Condition	Sample No.	А	В	С	D	Е
		36	2.10	2.10	2.12	2.10	2.11
	As received	37	2.06	2.07	2.05	2.06	2.07
		38	2.06	2.08	2.07	2.07	2.08
Inhalation		39	2.00	2.00	2.02	2.00	2.01
(95 L/min)	Simulated wearing treatment	40	2.07	2.08	2.08	2.07	2.08
(93 L/IIIII)	treatment	41	1.98	1.99	2.02	2.00	2.01
	Terrenteren	42	2.04	2.06	2.05	2.05	2.06
	Temperature conditioned	43	1.77	1.76	1.76	1.75	1.76
		44	1.89	1.88	1.90	1.89	1.90
		36	2.83	2.84	2.82	2.83	2.84
	As received	37	2.92	2.93	2.91	2.92	2.90
		38	2.84	2.83	2.83	2.83	2.83
		39	2.89	2.88	2.87	2.88	2.89
	Exhalation Simulated wearing	40	2.80	2.79	2.80	2.78	2.79
(160 L/min)	treatment	41	2.81	2.82	2.81	2.80	2.82
	Townseture	42	2.92	2.91	2.92	2.90	2.91
	Temperature conditioned	43	2.79	2.78	2.79	2.77	2.77
		44	2.83	2.85	2.86	2.86	2.84

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 & 8.10)

Requirement	Results	Rating
7.17.2Breathing resistance:		
7.17.2.1 Valved particle filtering half masks		
After clogging the inhalation resistances shall not exceed FFP1:4mbar, FFP2:5mbar,		
FFP3:7mbar at 95 L/min continuous flow; The exhalation resistance shall not exceed		
3mbar at 160 L/min continuous flow.	Ontional for	
7.17.2.2 Valveless particle filtering half masks	Optional for single shift device	Not
After clogging the inhalation and exhalation resistances shall not exceed		required
FFP1:3mbar, FFP2:4mbar, FFP3:5mbar at 95 L/min continuous flow.	only	
7.17.3Penetration of filter material:		
All types (valved and valveless) of particle filtering half masks claimed to meet the		
clogging requirement shall also meet the requirements given in 7.9.2, for the		
Penetration test according to EN 13274-7, after the clogging treatment.		

Clause 7.18 Demountable parts

(EN 149:2001+A1:2009 Clause 8.2)

Requirement	Results	Rating
All demovertable ments (if fitted) shall be needily connected and secured where	Not applicable	
All demountable parts (if fitted) shall be readily connected and secured, where	(No demountable	N/A
possible by hand.	parts)	



Sample photo



*** End of Report***

STATEMENT

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