Module B EU Type-Examination Certificate

For the requirements of PPE Regulation 2016/425

Certificate No.: CE-PC-200417-265-01-9A

Certificate holder:	**Jinhua GIME Safety Protective Product Co., Ltd.** No. 178, Yi Village, Bailongqiao Town, Jinhua City, Zhejiang Province, P. R. China
Product:	**Particle Filtering Half Mask** Detailed product description listed in the Annex
Model(s):	9122-1, 9139
Standard(s):	EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
Issue date:	2020-07-10
Revision date:	2020-07-10
Expiry date:	2021-07-09

The product(s) on this certificate and the Technical File have been assessed and found to be in conformance with the applicable Essential Health and Safety Requirements in Annex II of the PPE regulation 2016/425.
Any changes to the design, manufacturing location or manufacture of the PPE product certified here must be advised to CCQS Certification Services Limited for review.
CE marking shall not be applied until the requirements of all the PPE Regulation 2016/425 and relevant EN Harmonised standards and/or Technical specifications have been met.
If the certified product is Category III then this certificate is only valid if used in conjunction with Conformity Assessment against Module C2 or Module D.
This certificate remains the property of CCQS and maybe withdrawn at any time if it is considered that the equipment is no longer in conformity with the requirements of the PPE Regulation 2016/425.

CE

Approved by Ireland Government as a Notified Body for CE Marking No.2834

ISO 17065 INAB ACCREDITED PRODUCT CERTIFICATION DETAILED IN SCOPE REG NO.6028

Approved by:

CCQS Ireland Certification

Owen Bian, Director

CCQS Certification Services Limited
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Module B EU Type-Examination Certificate

Annex

For the requirements of PPE Regulation 2016/425

Certificate No.: CE-PC-200417-265-01-9A

Applicable standards and specification:
EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking

Model reference	Product description
9122-1	Cup shape half mask with elastic headharness, no valves, external metal nose clip Classification: FFP2 NR Test report No.: 2020(D) - 0476
9139	Folding filtering half mask with elastic headharness with exhalation valve, external metal nose clip Classification: FFP2 NR Test report No.: 2020(D) - 0477

Certificate Revision	Revision date	Revision details
A	2020-07-10	Initial issue

CE

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9.2.3 The number and year of publication of this European Standard.

9.2.4 Classification

The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "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.

9.2.5 If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the classification marking preceded by a single space

9.2.6 Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.

End of Test Results

Annex A: Summarization of Test Data

Table 7.9.1-A Inward leakage test data

Test specification: EN 149-2001 Clause 8.5

Subject	Sample No.	Condition	Walk(%)	Head Side/side(%)	Head up/down(%)	Talk(%)	Walk(%)	Mean(%)
Yi	1	A.R.	6.35	6.66	6.66	6.77	6.43	6.6
Gong	2	A.R.	7.98	8.10	8.25	8.13	8.19	8.1
Yu	3	A.R.	7.15	7.48	7.50	7.17	7.24	7.3
Hu	4	A.R.	6.61	6.95	6.88	6.78	6.95	6.8
Xu	5	A.R.	7.15	7.62	7.57	7.59	7.55	7.5
Deng	6	T.C.	8.42	8.59	8.48	8.58	8.65	8.5
Zhang	7	T.C.	7.16	7.17	7.48	7.50	7.43	7.3
Zhi	8	T.C.	6.87	7.32	6.91	7.07	7.03	7.0
Fang	9	T.C.	6.3	6.88	6.34	6.47	6.71	6.5
Lv	10	T.C.	7.11	7.62	7.52	7.16	7.27	7.3
All 50 individual exercise results were not greater than 11 % 8 out of 10 individual wearer arithmetic means were not greater than 8 %							Pass	

Table 7.9.1-B Facial dimension

Subject	Face length	Face Width	Face Depth	Mouth Width
Yi	120	130	109	59
Gong	122	140	115	65
Yu	119	160	139	55
Hu	112	122	119	63
Xu	110	130	118	60
Deng	115	119	110	59
Zhang	112	123	113	55
Liu	103	130	100	50
Zhi	118	139	130	63
Fang	115	129	120	50
Chen	116	150	132	56
Lv	110	121	110	53

Table -7.9.2 Penetration of filter material

Test specification: EN 149-2001 Clause 8.11

Aerosol	Condition	Sample No.	Penetration (%)	Assessment
Sodium chloride test	As received	11	0.479	Pass
		12	0.548	
		13	0.512	
	Simulated wearing treatment	14	0.617	
		15	0.624	
		16	0.651	
	Mechanical strength+ Temperature conditioned	17	0.786	
		18	0.715	
		19	0.745	
Paraffin oil test	As received	20	5.31	
		21	5.22	
		22	5.11	
	Simulated wearing treatment	23	5.31	
		24	5.41	
		25	5.47	
	Mechanical strength+ Temperature conditioned	26	5.41	
		27	5.37	
		28	5.45	
Flow conditioning： Single filter: 95.0 L/min				

Table 7.11 Flammability

Test specification: EN 149-2001 Clause 8.6

Condition	Sample No.	Result	Assessment
As received	29	Burn for 1 s	Pass
	30	Burn for 1 s	
Temperature conditioned	31	Burn for 1 s	
	32	Burn for 1 s	

Table 7.12 Carbon dioxide content of the inhalation air

Test specification: EN 149-2001 Clause 8.7

Condition	Sample No.	Result		Assessment
As received	33	0.41%	Mean value 0.4%	Pass
	34	0.38%		
	35	0.39%		

Table 7.16 Breathing resistance (mbar)

Test specification: EN 149-2001 Clause 8.9

			36					37					38				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
As received	Inhalation	30 l/min	0.4	0.5	0.5	0.5	0.6	0.4	0.6	0.5	0.6	0.5	0.4	0.5	0.6	0.4	0.6
		95 l/min	1.5	1.6	1.6	1.6	1.5	1.5	1.6	1.5	1.6	1.7	1.5	1.6	1.6	1.7	1.5
	Exhalation	160 l/min	1.7	1.9	1.9	1.8	1.8	1.8	1.7	1.8	1.8	1.9	1.7	1.7	1.7	1.9	1.8
			39					40					41				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Simulated wearing treatment	Inhalation	30 l/min	0.6	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.6	0.6	0.5
		95 l/min	1.5	1.7	1.7	1.5	1.5	1.5	1.6	1.5	1.7	1.6	1.6	1.6	1.7	1.7	1.6
	Exhalation	160 l/min	1.7	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.9	1.8
			42					43					44				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Temperature conditioned	Inhalation	30 l/min	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.6	0.4	0.4	0.6	0.5	0.5	0.6
		95 l/min	1.6	1.7	1.7	1.7	1.6	1.6	1.7	1.5	1.7	1.7	1.6	1.6	1.7	1.6	1.5
	Exhalation	160 l/min	1.8	1.9	1.9	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.7
			45					46					47				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
Flow conditioned	Inhalation	30 l/min	0.6	0.5	0.6	0.4	0.5	0.5	0.5	0.6	0.4	0.4	0.6	0.6	0.5	0.4	0.4
		95 l/min	1.6	1.7	1.6	1.5	1.6	1.7	1.6	1.5	1.6	1.7	1.7	1.6	1.6	1.6	1.6
	Exhalation	160 l/min	1.7	1.9	1.8	1.8	1.9	1.9	1.9	1.7	1.9	1.9	1.9	1.9	1.9	1.8	1.8
Assessment	Pass																

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

End of Annex A

ANNEX B PHOTOS OF SAMPLES

End of Annex B