



In enforcement of Regulation 2016/425 of the European Parliament and of the Council of 9th March 2016 on Personal Protective Equipment and repealing the Directive 89/686/EEC and in compliance with the Module B Certification Scheme of Apave 'M.MEPI.45' in force,
En exécution du Règlement 2016/425 du Parlement Européen et du Conseil du 9 mars 2016 relatif aux Équipements de Protection Individuelle et abrogeant la Directive 89/686/CEE et en respect du Programme de Certification Module B de l'Apave 'M.MEPI.45' en vigueur,

APAVE Sudeurope SAS, notified body identified under number 0082, awards the
APAVE Sudeurope SAS, organisme notifié identifié sous le numéro 0082, attribue l'

EU TYPE-EXAMINATION CERTIFICATE

Attestation d'examen UE de type

N° 0082/3234/079/08/19/0958

The following PPE type complies with the applicable essential health and safety requirements
Le type de l'EPI suivant est conforme aux exigences essentielles de santé et de sécurité applicables

PPE: PPE category III – Filtering half mask to protect against particles
EPI : *EPI de catégorie III – Demi-masque filtrant contre les particules*

Type: FFP2 NR
Type

Trademark: SHENGJIE
Marque commerciale

This certificate is awarded to the 2 following references
La présente attestation est attribuée aux 2 références suivantes :

- **SJ2278**
- **SJ2278V** – Specificity: With exhalation valve
Spécificité : Avec soupape expiratoire

Manufacturer: JINHUA CITY SHENGJIE LABOR PRODUCTS FACTORY - Shankoufeng - Chisong
Fabricant Town - JINHUA CITY - Zhejiang Province - CHINA

Description: Filtering half mask to protect against particles FFP2 NR without or with silicone exhalation valve, limited to single shift use only. Shell shape half mask, designed with a nose slide in aluminium, one internal foam nose pad and two self-adjusting head harnesses in elastic strap, assembled by ultrasonic welding. Filtering media made of one layer of polypropylene, covered by an inner layer of polyester and an outer layer of non-woven polypropylene (detailed description in EU type examination report 19.0200).

Description : Demi-masque filtrant contre les particules FFP2 NR sans ou avec soupape expiratoire en silicone, limité à une utilisation sur un seul poste de travail. Demi-masque filtrant à forme coque, équipé d'une barrette nasale en aluminium, d'une mousse nasale interne, et de deux brides auto-réglables en sangle élastique, assemblées par soudure à ultrason. Média filtrant composé d'une couche de polypropylène, recouvert par une couche interne en polyester et d'une couche externe en polypropylène tissé (description détaillée dans le rapport d'examen UE de type 19.0200).

Technical referential in use: EN 149:2001 + A1:2009
Référentiel technique utilisé

Date of signature (day/month/year): 22/08/2019
Date de signature (jour/mois/année)

Date of issue (day/month/year): 22/08/2019
Date de délivrance (jour/mois/année)

Date of renewal (day/month/year): first edition
Date de renouvellement (jour/mois/année) 1^{ère} édition

Date of expiry (day/month/year): 22/08/2024
Date d'expiration (jour/mois/année)

PPE Certification Manager
Le Responsable de la Certification EPI
Immaterial original



Vincent Maillocheau
Validation électronique



Accréditation N° 5-0596
Scope available on
Portée disponible sur
www.cofrac.fr

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For category III PPE, the certificate shall only be used in conjunction with one of the conformity assessment procedures referred in point c) of Article 19
Pour les EPI de catégorie III, l'attestation ne doit être utilisée qu'en liaison avec l'une des procédures d'évaluation de la conformité visées à l'article 19, point c).
The manufacturer shall inform the notified body of all modifications to the approved type and of all modifications of the technical documentation that may affect the conformity of the PPE with the applicable essential health and safety requirements or the conditions for validity of that certificate
(article 7.2 – annexe V)
Le fabricant informe l'organisme notifié de toutes les modifications du type approuvé et de toutes les modifications de la documentation technique qui peuvent remettre en cause la conformité de l'EPI aux exigences essentielles de santé et de sécurité applicables ou les conditions de validité de cette attestation (article 7.2 – annexe V)

This certificate includes one page - Cette attestation comporte une page

APAVE SUDEUROPE SAS

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Contact :

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End of test: 18/04/2019

TEST REPORT n°19.0200.001.1

EN 149:2001 + A1:2009

Respiratory protective device – Filtering half masks to protect against particles

FFP2 NR : SJ2278 / SJ2278V

FFP1 NR : SJ2268 / SJ2268V

Applicant:

SHANGAI MAGIC DEVELOPMENT CO. LTD.

Room 905 West Building, BHC Centre

No. 2218 Hunan Road

PUDONG

SHANGHAI 201204

P.R. China

Report sent for the attention of Maggie ZHONG to the email address info@shmagic-safe.com.

The PPE Technical Manager:

Anaïs JAVET VIALA

Signature :

Immaterial original



ANAÏS JAVET VIALA

Validation électronique

SUMMARY

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1 PURPOSE AND IDENTIFICATION ON THE EQUIPMENT

1.1 Purpose

- Achievement of tests according to European standard EN 149:2001 + A1:2009.

1.2 Identification

- Type of equipment : **Filtering half masks to protect against particles**
- Manufacturer: **JINHUA CITY SHENGJIE LABOR PRODUCTS FACTORY**
- Classes / Models: **FFP2 NR: SJ2278 / SJ2278V – FFP1 NR: SJ2268 / SJ2268V**

2 TECHNICAL REFERENTIAL USED

Tests have been carried out taking into account the provisions of European standard EN 149:2001 + A1:2009 "Respiratory protective device – Filtering half masks to protect against particles", to the exception of articles 9 and 10.

This test report is not an EU type examination report according to Regulation 2016/425 of 9th march 2016 "Personal Protective Equipment".

3 USE OF REPORT

The reproduction of this report is authorized only under its complete shape.

The results of the present report relate only to tested object.

The report recipient undertakes not to use it for equipment or material that is not strictly identical to the one subject of this report.

This report is exclusively broadcasted under dematerialized shape.

4 CONDITIONS OF TEST

The tests were carried out according to the test methods defined in Article 8 "Testing" of European standard EN 149:2001 + A1:2009.

The samples have been tested in compliance with conditioning defined in article 8.3.

Laboratory temperature: $22^{\circ}\text{C} \pm 5^{\circ}\text{C}$

Laboratory relative humidity: $55\%\text{HR} \pm 30\%\text{HR}$

The measurement uncertainties are not taken into account for the assessment of conformity.

5 REQUIREMENTS AND TEST RESULTS

Article of the standard EN 149+A1	Content	Conformity*			Comments
		Yes	No	N-A	
Art. 7	Requirements				
Art 7.3	Visual inspection The visual inspection shall also include the marking and the information supplied by the manufacturer	✓			Date of tests: 18/04/2019
Art 7.4	Packaging 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.	✓			
Art 7.5	Material 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 simulated wearing treatment 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, 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. - Tests carried out on both filtering half masks with and without exhalation valve.	✓			Date of tests: 20/03/2019
Art 7.6	Cleaning and disinfecting 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 manufacturer." After cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.			✓	

Article of the standard EN 149+A1	Content	Conformity*			Comments
		Yes	No	N-A	
Art 7.7	Practical performance 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 houses shall provide full details of those parts of the practical performance tests which revealed these imperfections. <ul style="list-style-type: none"> - <i>Tests carried out on both filtering half masks with and without exhalation valve.</i> Here are the comments of the test subjects: a) head harness comfort b) security of fastenings c) field of vision d) any other comments reported by the wearer on request	✓			Date of tests: 18/04/2019 any imperfections determined
Art 7.8	Finish of parts Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs	✓ ✓ ✓ ✓		✓	No comment No comment No comment No comment

[illegible]

	Half mask SJ2278 without valve									
Exercise	Test subject reference									
	1	2	3	4	5	6	7	8	9	10
Walk	1,195	0,563	1,222	0,598	2,388	1,499	7,710	0,445	0,688	1,583
Left-Right	1,603	0,909	1,700	1,184	4,031	1,849	7,845	0,648	1,081	2,183
Up-Down	1,596	1,347	2,230	1,095	3,865	1,638	6,203	2,148	3,606	1,397
Alphabet	1,369	2,402	1,205	1,433	2,985	4,931	3,177	1,515	2,807	1,750
Walk	1,732	0,944	1,684	0,793	4,780	2,177	4,845	3,068	1,717	2,180
average	1,499	1,233	1,608	1,021	3,610	2,419	5,956	1,565	1,980	1,819

* Total inward leakage values in %

	Half mask SJ2278V with valve									
Exercise	Test subject reference									
	11	12	13	14	15	16	17	18	19	20
Walk	1,788	4,948	0,249	3,081	1,222	0,461	4,265	1,571	6,694	2,031
Left-Right	1,998	6,083	0,377	4,715	1,558	0,858	5,362	8,113	9,533	2,223
Up-Down	2,384	9,924	0,729	3,352	2,486	0,773	5,884	13,700	10,356	2,852
Alphabet	1,705	5,704	0,944	3,198	1,245	1,762	4,941	2,210	6,404	4,247
Walk	2,123	5,937	0,321	2,691	1,804	0,890	6,284	3,542	8,325	4,265
average	2,000	6,519	0,524	3,407	1,663	0,949	5,347	5,827	8,262	3,124

* Total inward leakage values in %

Article of the standard EN 149+A1	Content	Conformity*			Comments		
		Yes	No	N-A			
Art 7.9.2	Penetration of filter material The penetration of the filter of the particle filtering half mask shall meet the requirements of Table1.	✓			Date of tests: 19/03/2019		
	Tableau 1 – Penetration of filter material				All tests were carried out on half mask with exhalation valve SJ2278V → Tests validating reference SJ2278, and also FFP1 masks references SJ2268 and SJ2268V		
	Classification					Maximum penetration of test aerosol	
						Sodium chloride test 95 l/min % max.	Paraffin oil test 95 l/min % max.
	FFP1					20	20
	FFP2					6	6
	FFP3					1	1

Paraffin oil penetration of filter material tests results (%)

Conditioning	AR			SWT		
Penetration (3min)	0,475	0,560	0,580	0,610	0,420	0,630

Conditioning	MS+TC		
Exposure (120mg)	1,450	0,980	0,880
Penetration (3min) after storage	N/A	N/A	N/A

Sodium chloride penetration of filter material tests results (%)

Conditioning	AR			SWT		
Penetration (3min)	0,104	0,165	0,091	0,124	0,680	0,116

Conditioning	MS+TC		
Exposure (120mg)	0,159	0,264	0,342
Penetration (3min) after storage	N/A	N/A	N/A

As Received (AR), Simulated Wearing Treatment (SWT), Mechanical Strength (MS), Temperature Conditioning (TC)

Article of the standard EN 149+A1	Content	Conformity*			Comments								
		Yes	No	N-A									
Art 7.10	Compatibility with skin 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.	✓			Manufacturer statement								
Art 7.11	Flammability The material used shall not present a danger for the wearer and shall not be of highly flammable nature. 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. The particle filtering half mask does not have to be usable after the test. - Tests carried out on both filtering half masks with and without exhalation valve.	✓			Date of test: 19/04/2019 The mask doesn't burn 5s after removal from the flame								
Art 7.12	Carbon dioxide content of the inhalation air The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume) - Tests carried out on both filtering half masks with and without exhalation valve.	✓			Date of tests: 22/03/2019 CO ₂ (%) <table><tr><th colspan="2">Without valve</th></tr><tr><td>0,70</td><td>0,75</td></tr><tr><th colspan="2">With valve</th></tr><tr><td>0,75</td><td>0,80</td></tr></table>	Without valve		0,70	0,75	With valve		0,75	0,80
Without valve													
0,70	0,75												
With valve													
0,75	0,80												
Art 7.13	Head harness 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 and be capable of maintaining total inward leakage requirements for the device.	✓			Self-Adjusting harnesses								
Art 7.14	Field of vision The field of vision is acceptable if determined so in practical performance tests	✓			See Art 7.7								
Art 7.15	Exhalation valve(s) 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 may be necessary for the particle filtering half mask to comply with 7.9. Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s. When the exhalation valve housing is attached to the face blank, it shall withstand axially a tensile force of 10 N applied for 10s.	✓ ✓ ✓ ✓			(Not applicable for filtering half mask without valve) Date of test: 20/03/2019 Date of test: 03/04/2019								

Article of the standard EN 149+A1	Content	Conformity*			Comments			
		Yes	No	N-A				
Art 7.16	Breathing resistance The breathing resistances apply to valved and valveless particle filtering half masks and shall meet the requirements of Table 2.	✓			Date of tests: 20/03/2019			
	Tableau 2 – Breathing resistance							
	Classification					Maximum permitted resistance (mbar)		
						inhalation		exhalation
						30 l/min	95 l/min	160 l/min
	FFP1					0.6	2.1	3.0
	FFP2					0.7	2.4	3.0
	FFP3					1	3	3.0
<div>- Tests carried out on both FFP2 filtering half masks: SJ2278 and SJ2278V. → Test results also valid for FFP1 filtering half masks: SJ2268 and SJ2268V</div>								

Breathing resistance tests results

Conditioning	AR				SWT			
Half mask	Without valve	Without valve	With valve	With valve	Without valve	Without valve	With valve	With valve
at 30l/min	0,46	0,49	0,58	0,48	0,43	0,47	0,55	0,59
at 95l/min	1,26	1,25	1,34	1,32	1,20	1,23	1,36	1,38
at 160l/min	2,10	2,02	1,67	1,80	1,90	1,88	1,67	1,74

Values in mbar

Conditioning	TC				300l/min during 30s Art 7.15		
Half mask	Without valve	Without valve	With valve	With valve	With valve	With valve	With valve
at 30l/min	0,40	0,43	0,51	0,42	0,43	0,46	0,50
at 95l/min	1,12	1,15	1,17	1,13	1,10	1,16	1,17
at 160l/min	1,80	1,91	1,88	1,92	1,82	1,86	1,90

Values in mbar

Article of the standard EN 149+A1	Content	Conformity*			Comments
		Yes	No	N-A	
Art 7.17	Clogging			✓	Not requested

6 CONCLUSION

The filtering half masks against particles SJ2278, SJ2278V, SJ2268, SJ2268V comply with the requirements of European standard EN 149:2001 + A1:2009, only for the tests described in § 2 and § 5 and the classes specified on §1.2.

Note: neither instructions for use nor marking were evaluated according to the European standard EN 149:2001 + A1:2009.

EC DECLARATION OF CONFORMITY

1. Personal protective equipment the filtering half mask SJ2278.

2. Name and address of the manufacturer :

JINHUA CITY SHENGJIE LABOR PRODUCTS FACTORY-
SHANKOUFENG-CHISONG TOWN-JINHUA CITY-ZHEJIANG
PROVINCE-CHINA

3. This declaration of conformity is issued under the sole responsibility of the manufacturer :

JINHUA CITY SHENGJIE LABOR PRODUCTS FACTORY-
SHANKOUFENG-CHISONG TOWN-JINHUA CITY-ZHEJIANG
PROVINCE-CHINA

4. Object of the declaration is the filtering half mask SJ2278 for respiratory protection against particles.

5. The object of the declaration described in point 4 is in conformity with the relevant Union harmonisation legislation : REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment.

6. The filtering half mask FS-920 A FFP2 NR D for respiratory protection against particles meets the requirements of the harmonised standard EN 149:2001+A1:2009 used in order to confirm the conformity with the relevant Union harmonisation legislation : REGULATION (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment.

7. The notified body: APAVE SUDEUROPE SAS Centre d'Essais et de Certification EPI 17, Boulevard Paul Langevin 38600 FONTAINE- France, notified body identified under number 0082 performed the EU TYPE-EXAMINATION and issued the EU type-examination certificate No.0082/3234/079/08/19/0958

Signed for and on behalf of: JINHUA CITY SHENGJIE LABOR PRODUCTS
FACTORY-SHANKOUFENG-CHISONG TOWN-JINHUA CITY-ZHEJIANG
PROVINCE-CHINA

Place and date of issue :

(name, function)

