

Filterierende Halbmaske zum Schutz gegen Partikeln

Modell: ZH3310

Atemschutzmaske ohne Ventil, Schutzklasse FFP2

nach DIN EN 149:2001+A1:2009

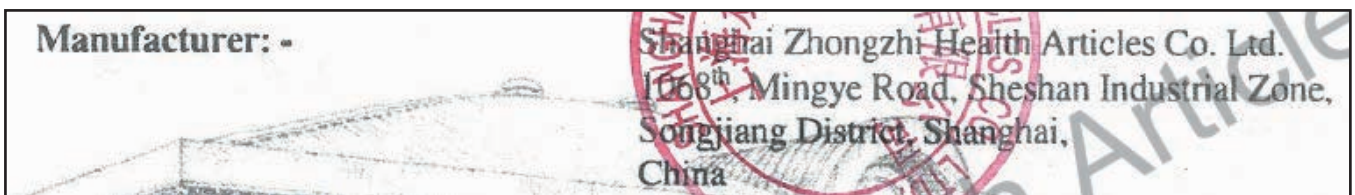
Übersicht

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Zusammenfassung der filtrierenden Halbmaske ZH3310 – FFP2



Diese Atemschutzmaske vom Hersteller Zhongzhi Health Articles Co. Ltd. (siehe Zertifikat Seite 1)



wurde nach der europäischen Norm EN149:2001+A1:2009 geprüft.

Die Konformität entsprechend der PSA-Verordnung (EU) 2016/425 ist gegeben.

Die Kennnummer der Zertifizierungsstelle, auch benannte Stelle oder im Englischen Notified Body genannt (0194), finden Sie auf Seite 1 des Zertifikates:

For and on behalf of INSPEC International Ltd.
56 Leslie Hough Way, Salford, Gt Manchester M6 6AJ, England (Notified Body No: 0194)

Diese 4-stellige Nummer muss bei PSA dem CE Zeichen folgen.

Die Prüfstelle können Sie auch auf der Europäischen Kommissionsseite nochmals überprüfen:

<https://ec.europa.eu/growth/tools->

[databases/nando/index.cfm?fuseaction=notifiedbody.notifiedbody&refe_cd=EPOS%5F43516](https://ec.europa.eu/growth/tools-databases/nando/index.cfm?fuseaction=notifiedbody.notifiedbody&refe_cd=EPOS%5F43516)

Hier sehen Sie, dass INSPEC die Prüfungen für persönliche Schutzausrüstung (PSA) ausführen darf.

Dass es sich bei unsere Halbmaske ZH3310 auch um einen FFP2 Schutz handelt, sehen Sie im Zertifikat auf der Seite 5, vorletzte Position:

ZH3310

FFP1 NR/FFP2 NR

Die Angabe beider Schutzklassen bedeutet, dass die Maske sowohl den Anforderungen der Schutz- bzw. Geräteklasse FFP2, als auch der Klasse FFP1 entspricht.

Folgende Definition hierzu finden Sie in der Norm DIN EN 149:2001+A1:2009 auf Seite 7 unter Punkt 5 Einteilung:

„Der Schutz durch ein FFP2- oder FFP3-Gerät schließt den Schutz durch ein Gerät niedriger Klasse oder Klassen ein.“

Zusätzlich werden partikelfiltrierende Halbmasken danach eingeteilt, ob sie nur für eine Schicht zu gebrauchen oder wiederverwendbar (mehr als eine Schicht) sind.

Diese Gebrauchsdauer wird auf der Maske mit dem „NR“ definiert (non reusable)

Das Zertifikat muss mit den Angaben auf dem Test Report übereinstimmen.

Sehen Sie die Report Nummer auf dem Prüfbericht Seite 1:

Test Report

EN 149 : 2001 + (A1 : 2009)

Report no:

1.12.04.42

Zertifikat 1638 auf Seite 2:

i) Test Reports

INSPEC 06.11.75, 06.11.76, 07.01.55,
07.04.34, 07.05.44, 09.09.21, 1.11.11.39
& 1.12.04.42

Zertifikat 2495 Seite 3 bestätigt die Übernahme von Zertifikat 1638 in das Zertifikat 2495:

Page 1 to 5 Withdrawn

131202

Amend of EU Representative address

Add in alternative address

To combine all the certified models
against EN149:2001 +A1:2009
from existing certificate 1638, into certificate
2495.

Auch die Modellbezeichnung muss sowohl auf der Maske, sowie im Zertifikat, als auch auf dem Test Report identisch sein! Test Report Seite 5, Zertifikat Seite 7:

Model(s):

ZH3310, ZH3310V, ZH4310 and ZH4310V

Die Testergebnisse des Modells entnehmen Sie bitte dem Test Report (Seite 3-11)





EC TYPE-EXAMINATION CERTIFICATE: 1638

Product description: - Single Shift Use Filtering Half Mask

Product identification: - See Schedule

Manufacturer: - Shanghai Zhongzhi Health Articles Co. Ltd.
1068th, Mingye Road, Shebei Street,
Shebei Industrial Zone,
Songjiang District,
Shanghai,
China



When assessed and examined against harmonised standard EN149:2001 +A1:2009 are found to be in conformity with Council Directive 89/686/EEC and associated amendments relating to personal protective equipment.

And

Are manufactured under a Quality Control System which has been satisfactorily assessed as meeting the requirements of Article 11 Section B of the same Directive.

Authorised EU Representative: - Lotus Global Co., Ltd.
15 Alexandra Road
London
LW8 0DP
United Kingdom

Signed

Date: 2nd February 2007

K J Warren, Manager, Certification Services

certificate invalid
if not embossed

For and on behalf of INSPEC International Ltd.
56 Leslie Hough Way, Salford, Gt Manchester M6 6AJ
England (Notified Body No: 0194)

For terms and conditions of issue, see page 2

Terms and Conditions

Reference Documents: -

- | | | | |
|------|--------------------------|---|--|
| i) | Test Reports | - | INSPEC 06.11.75, 06.11.76, 07.01.55,
07.04.34, 07.05.44, 09.09.21, 1.11.11.39
& 1.12.04.42 |
| ii) | Technical File | - | TF/1638 |
| iii) | Test and Inspection Plan | - | Dated 2010.06.12 & 2012.05.12 |

Conditions attached to the issue of this certificate:

- i) Marking and instructions have been assessed in the English language only. It is the Manufacturers/Authorised Representatives responsibility to obtain and supply language versions acceptable to the country where the product is to be sold.
- ii) Any changes to the product, technical file or quality manual/quality plan shall be immediately notified to INSPEC.
- iii) The Manufacturer/Authorised Representative shall comply at all times with INSPEC's Regulations governing CE Product Certification.
- iv) Satisfactory maintenance of independent certification against Article 11.B of the P.P.E. Directive.
- v) This Certificate remains the property of INSPEC and may be withdrawn if any of the conditions attached to its issue are not complied with.
- vi) This certificate may be copied or reproduced by the certificate holder, complete and without omissions or additions, and in accordance with INSPEC's terms of business.
- vii) This certificate has been provided in accordance with our standard Terms of Business, which can be viewed at, and printed from:

<http://inspec-international.com/ToB.pdf>

If you have difficulty accessing the Terms of Business, you may contact us for a copy.

CERTIFICATION INDEX

Item	Status	Issued	Amendment
Page 1 of 4	Withdrawn	070202	First Issue
Page 2 of 4	Withdrawn	070202	First Issue
Page 3 of 4	Withdrawn	070202	First Issue
Page 4 of 4	Withdrawn	070202	First Issue
Page 1 of 4	Withdrawn	070508	To add FFP1/FFP2
Page 2 of 4	Withdrawn	070508	To add test report 07.04.34
Page 3 of 4	Withdrawn	070508	
Page 4 of 4	Withdrawn	070508	To add FFP2
Pages 1 to 4	Withdrawn	070527	To add models ZH3061v & ZX3031-2V To add test report 07.05.44
Pages 1 to 4	Withdrawn	091201	To add models ZH3071 & ZH3071V, reference EN149:2001+A1:2009
Pages 1 to 4	Withdrawn	100710	To update the existing certified models against EN149:2001+A1:2009. Add new models.
Page 1 – 5	Valid	120606	To add models: ZH3310, ZH3310V, ZH4310 & ZH4310V To amend Authorised EU Representative. Reference to Terms of Business added.

CERTIFICATION SCHEDULE

Single Shift Use Filtering Half Masks

Model	Class	Valve	Carbon
ZH3001	FFP1 NR	No	No
ZH3001V	FFP1 NR	Yes	No
ZH4001	FFP1 NR	No	Yes
ZH4001V	FFP1 NR	Yes	Yes
ZH3031	FFP1 NR	No	No
ZH3031V	FFP1 NR	Yes	No
ZH4031	FFP1 NR	No	Yes
ZH4031V	FFP1 NR	Yes	Yes
ZH3131	FFP1 NR	No	No
ZH3131V	FFP1 NR	Yes	No
ZH4131	FFP1 NR	No	Yes
ZH4131V	FFP1 NR	Yes	Yes
ZH3010	FFP1 NR/FFP2 NR	No	No
ZH3010V	FFP1 NR/FFP2 NR	Yes	No
ZH4010	FFP1 NR/FFP2 NR	No	Yes
ZH4010V	FFP1 NR/FFP2 NR	Yes	Yes
ZH3030	FFP1 NR/FFP2 NR	No	No
ZH3030V	FFP1 NR/FFP2 NR	Yes	No
ZH4030	FFP1 NR/FFP2 NR	No	Yes
ZH4030V	FFP1 NR/FFP2 NR	Yes	Yes
ZH3141	FFP1 NR/FFP2 NR	No	No
ZH3141V	FFP1 NR/FFP2 NR	Yes	No

Single Shift Use Filtering Half Masks

Model	Class	Valve	Carbon
ZH4141	FFP1 NR/FFP2 NR	No	Yes
ZH4141V	FFP1 NR/FFP2 NR	Yes	Yes
ZH3061V	FFP1 NR/FFP2 NR	Yes	No
ZH3061-2V	FFP1 NR/FFP2 NR	Yes, 2 valves	No
ZH3071	FFP1 NR/FFP2 NR	No	No
ZH3071V	FFP1 NR/FFP2 NR	Yes	No
ZH3310	FFP1 NR/FFP2 NR	No	No
ZH3310V	FFP1 NR/FFP2 NR	Yes	No
ZH4310	FFP1 NR/FFP2 NR	No	Yes
ZH4310V	FFP1 NR/FFP2 NR	Yes	Yes

INSPEC

CE

EC TYPE-EXAMINATION CERTIFICATE: 2495

Product description: -

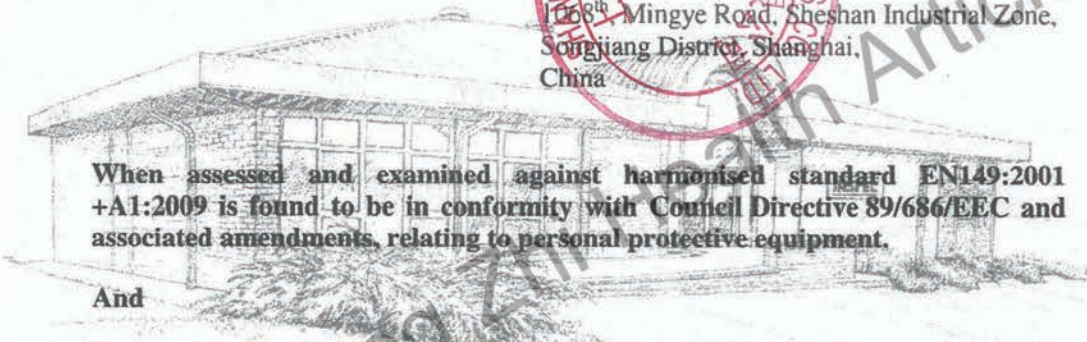
Respiratory Protective Device - Single Shift
Use Filtering Half Mask

Product identification: -

See schedule

Manufacturer: -

Shanghai Zhongzhi Health Articles Co. Ltd.
1008th Mingye Road, Sheshan Industrial Zone,
Songjiang District, Shanghai,
China



When assessed and examined against harmonised standard EN149:2001 +A1:2009 is found to be in conformity with Council Directive 89/686/EEC and associated amendments, relating to personal protective equipment.

And

Is manufactured under a Quality Control System which has been satisfactorily assessed as meeting the requirements of Article 11 Section B of the same Directive.

Signed:

Date: 10th May 2018

Helen Taft, Certification Manager

For and on behalf of INSPEC International Ltd.

56 Leslie Hough Way, Salford, Gt Manchester M6 6AJ, England (Notified Body No: 0194)

Certification remains valid until 18th April 2023, providing compliance with INSPEC's terms and conditions is maintained.

Original date of issue: 18th April 2013

For terms and conditions of issue, see page 2



Terms and Conditions

Reference Documents: -

- | | | | |
|------|--------------------------|---|---|
| i) | Test Reports | - | INSPEC 1.12.05.70, 1.13.01.15,
1.13.05.01, 1.13.05.03A, 1.13.09.58,
1.13.10.22, 1.13.12.26, 1.13.12.30,
1.13.06.51 & TF/1638 |
| ii) | Technical File | - | TF/638 and TF/2495 |
| iii) | Test and Inspection Plan | - | Dated 2013.1.25, 2013.5.3, 2014.1.4,
2014.06.17 & TF/1638 |

Conditions attached to the issue of this certificate:

- i) Marking and instructions have been assessed in the English language only. It is the Manufacturers/Authorised Representatives responsibility to obtain and supply language versions acceptable to the country where the product is to be sold.
- ii) Any changes to the product, technical file or quality manual/quality plan shall be immediately notified to INSPEC.
- iii) The Manufacturer/Authorised Representative shall comply at all times with INSPEC's Regulations governing CE Product Certification.
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CERTIFICATION INDEX

Item	Status	Issued	Amendment
Page 1 to 4	Withdrawn	130418	Initial Issue
Page 1 to 4	Withdrawn	130712	Add model ZH3161 series & ZH4071 series
Page 1 to 5	Withdrawn	131202	Amend of EU Representative address Add in alternative address To combine all the certified models against EN149:2001 +A1:2009 from existing certificate 1638, into certificate 2495.
Page 1 to 7	Withdrawn	140411	To add model ZH3361 series & ZH3081 series
Page 1 to 7	Withdrawn	140807	To add new model ZH3291V
Page 1 to 7	Valid	180510	Remove EU representative Additional of 5 years validity period following 5 years review

CERTIFICATION SCHEDULE

Single Shift Use Filtering Half Masks

Model	Class	Valve	Carbon
ZH3001	FFP1 NR	No	No
ZH3001V	FFP1 NR	Yes	No
ZH4001	FFP1 NR	No	Yes
ZH4001V	FFP1 NR	Yes	Yes
ZH3031	FFP1 NR	No	No
ZH3031V	FFP1 NR	Yes	No
ZH4031	FFP1 NR	No	Yes
ZH4031V	FFP1 NR	Yes	Yes
ZH3131	FFP1 NR	No	No
ZH3131V	FFP1 NR	Yes	No
ZH4131	FFP1 NR	No	Yes
ZH4131V	FFP1 NR	Yes	Yes



CERTIFICATION SCHEDULE

Single Shift Use Filtering Half Masks

Model	Class	Valve	Carbon
ZH3010	FFP1 NR/FFP2 NR	No	No
ZH3010V	FFP1 NR/FFP2 NR	Yes	No
ZH4010	FFP1 NR/FFP2 NR	No	Yes
ZH4010V	FFP1 NR/FFP2 NR	Yes	Yes
ZH3030	FFP1 NR/FFP2 NR	No	No
ZH3030V	FFP1 NR/FFP2 NR	Yes	No
ZH4030	FFP1 NR/FFP2 NR	No	Yes
ZH4030V	FFP1 NR/FFP2 NR	Yes	Yes
ZH3141	FFP1 NR/FFP2 NR	No	No
ZH3141V	FFP1 NR/FFP2 NR	Yes	No
ZH4141	FFP1 NR/FFP2 NR	No	Yes
ZH4141V	FFP1 NR/FFP2 NR	Yes	Yes
ZH3061V	FFP1 NR/FFP2 NR	Yes	No
ZH3061-2V	FFP1 NR/FFP2 NR	Yes, 2 valves	No
ZH3071	FFP1 NR/FFP2 NR	No	No
ZH3071V	FFP1 NR/FFP2 NR	Yes	No
ZH3310	FFP1 NR/FFP2 NR	No	No
ZH3310V	FFP1 NR/FFP2 NR	Yes	No

CERTIFICATION SCHEDULE

Single Shift Use Filtering Half Masks

Model	Class	Valve	Carbon
ZH4310	FFP1 NR/FFP2 NR	No	Yes
ZH4310V	FFP1 NR/FFP2 NR	Yes	Yes
ZH3021	FFP1 NR/FFP2 NR	No	No
ZH3021V	FFP1 NR/FFP2 NR	Yes	No
ZH3161	FFP1 NR/FFP2 NR	No	No
ZH3161V	FFP1 NR/FFP2 NR	Yes	No

CERTIFICATION SCHEDULE

Single Shift Use Filtering Half Masks

Model	Class	Valve	Carbon
ZH4071	FFP1 NR/FFP2 NR/FFP3 NR	No	Yes
ZH4071V	FFP1 NR/FFP2 NR/FFP3 NR	Yes	Yes
ZH3361	FFP1 NR/FFP2 NR/FFP3 NR	No	No
ZH3361V	FFP1 NR/FFP2 NR/FFP3 NR	Yes	No
ZH4361	FFP1 NR/FFP2 NR/FFP3 NR	No	Yes
ZH4361V	FFP1 NR/FFP2 NR/FFP3 NR	Yes	Yes
ZH3081	FFP1 NR/FFP2 NR/FFP3 NR	No	No
ZH3081V	FFP1 NR/FFP2 NR/FFP3 NR	Yes	No
ZH4081	FFP1 NR/FFP2 NR/FFP3 NR	No	Yes
ZH4081V	FFP1 NR/FFP2 NR/FFP3 NR	Yes	Yes
ZH3291V	FFP1 NR/FFP2 NR/FFP3 NR	Yes	No

Alternative address: -

Shanghai Zhongzhi Health Articles Co. Ltd.
 1068th, Mingye Road, Shebei Street,
 Shebei Industrial Zone,
 Songjiang District,
 Shanghai,
 China



56 LESLIE HOUGH WAY • SALFORD • GREATER MANCHESTER • M6 6AJ • UNITED KINGDOM
Email: testing@inspec-international.com Website: www.inspec-international.com
Tel: +44 (0)16 1737 0699 Fax: +44 (0)16 1736 0101

Test Report EN 149 : 2001 + (A1 : 2009)

Report no: 1.12.04.42

Client: INSPEC Representative Office
Room 515 Huawei Plaza
No. 999, West Zhongshan Road
Changning District
Shanghai 200051
China

Client order: TA120042a

Order(s) received: 9 to 15 March 2012

Manufacturer: Shanghai Zhongzhi Health Articles Co., Ltd

Model(s): ZH3310, ZH3310V, ZH4310 and ZH4310V

Date(s) of tests: 12 March to 25 April 2012

Signed:

Heather Later, Senior Technician

Issued: 27 April 2012

Page 1 of 12

Conditions

This report may be reproduced and distributed to your clients, provided that it is reproduced and distributed in full.

Opinions, comments and interpretations expressed herein are outside the scope of UKAS accreditation and are shown in italics in this report. Any INSPEC interpretations are referenced in this report and copies are available upon request.

Tests marked are not included in the UKAS accreditation schedule for INSPEC.

Specimens will be disposed of four weeks from the date of this report, unless otherwise instructed.

This report has been provided in accordance with our standard Terms of Business, which can be viewed at, and printed from:

<http://inspec-international.com/ToB.pdf>

If you have difficulty accessing the Terms of Business, you may contact us for a copy.

Summary of assessment*

Clause	Model:	Assessment			
		ZH3310	ZH3310V	ZH4310	ZH4310V
7.4	Packaging	Ltd			Ltd
7.5	Material	Ltd	Ltd	Ltd	Ltd
7.6	Cleaning and disinfecting				
7.7	Practical performance				Ltd
7.8	Finish of parts				
7.9.1	Total inward leakage				
7.9.2	Penetration of filter material: Sodium chloride		Ltd		
7.9.2	Penetration of filter material: Paraffin oil		Ltd		Ltd
7.10	Compatibility with skin				
7.11	Flammability				Pass
7.12	Carbon dioxide content of the inhalation air				
7.13	Head harness				Ltd
7.14	Field of vision				Ltd
7.15	Exhalation valve(s)				Ltd
7.16	Breathing resistance			Ltd	
7.17	Clogging				
7.18	Demountable parts				
9	Marking	Fail	Fail	Fail	Fail
10	Information to be supplied by the manufacturer		Fail		Fail

Key

	Shading shows the clauses requested. Any other clauses were not requested.
Pass	Requirement satisfied.
Ltd	Testing requested was insufficient completely to verify compliance with the clause. Refer to the "Result details" section for more information.
Fail	Requirement not satisfied. Refer to the "Result details" section for more information.
NAs	Assessment not carried out.
NAP	Requirement not applicable.
NT	Requested but not tested due to early termination following failure.

* Assessment relates only to those specimens which were tested and are the subject of this report.

Product characteristics

Property	Characteristic			
	ZH3310	ZH3310V	ZH4310	ZH4310V
Model	ZH3310	ZH3310V	ZH4310	ZH4310V
Classification claimed	FFP2	FFP2	FFP2	FFP2
Exhalation valve(s)	None	Single	None	Single
Usage designation	NR	NR	NR	NR

Submission details

Product	Quantity	Date received	INSPEC specimen no. (1Y0184 +)
ZH3310 filtering half mask	10	9 March 2012	117 to 160
ZH3310V filtering half mask	25		211 to 263
ZH4310 filtering half mask	25		311 to 360
ZH4310V filtering half mask	25		414 to 460

Procedures

The specimens detailed within the submissions above were used for the tests covered by this report.

Testing was performed in accordance with BS EN 149 : 2001 incorporating Corrigendum No. 1 (January 2003), and amendment A1 (2009) unless otherwise specified below. Reference should be made to the standard when reading this report.

Unless stated otherwise, specimens were tested in the condition as received by INSPEC.

7.7 The client instructed that practical performance testing be carried out on one specimen only of model ZH4310V.

Practical performance tests were conducted in simulation of the practical use of the apparatus under the conditions prevailing in the gallery area of the laboratory. The exercises undertaken and the equipment used were as specified in the standard.

7.9.2 Filter penetration testing by the paraffin oil method was carried out using a modified Phoenix SG-20 aerosol generator and a Phoenix model JM-6000 photometer or a TEC Services' model PH-3 photometer. These give similar performance to the instruments specified.

For the 120mg exposure test, the peak penetration during exposure is reported and in addition the penetration after three minutes for comparison purposes.

During the 120mg exposure test, the sodium chloride penetration showed continued decline and the test was terminated as the product was marked NR.

7.16 Exhalation resistance was tested at a continuous flow of 160 l/min.

Result details:

7.4 Packaging

Models ZH3310 and ZH4310V

The masks were not packaged as offered for sale. Manufacturer to certify regarding the final packaging to be used.

NAs

The masks were packaged in clear plastic bags that gave some protection against mechanical damage or contamination before use.

Pass

7.5 Material

Model ZH3310

Specimens 120 to 122 were conditioned in accordance with 8.3.1. None of the specimens conditioned suffered mechanical failure or collapse.

Pass

Specimens 117 to 119 were conditioned in accordance with 8.3.2. None of the specimens conditioned suffered collapse.

Pass

The effects of filter media release were not assessed. Manufacturer to certify.

NAs

Model ZH3310V

Specimens 220 to 222 were conditioned in accordance with 8.3.1. None of the specimens conditioned suffered mechanical failure or collapse.

Pass

Specimens 226 to 231 and 263 were conditioned in accordance with 8.3.2. None of the specimens conditioned suffered collapse.

Pass

The effects of filter media release were not assessed. Manufacturer to certify.

NAs

Model ZH4310

Specimens 320, 324 and 325 were conditioned in accordance with 8.3.1. None of the specimens conditioned suffered mechanical failure or collapse.

Pass

Specimens 317 to 319 were conditioned in accordance with 8.3.2. None of the specimens conditioned suffered collapse.

Pass

The effects of filter media release were not assessed. Manufacturer to certify.

NAs

Model ZH4310V

Specimens 420 to 422 were conditioned in accordance with 8.3.1. None of the specimens conditioned suffered mechanical failure or collapse.

Pass

Specimens 429 to 431, 433, 439, 440, 446 and 447 were conditioned in accordance with 8.3.2. None of the specimens conditioned suffered collapse.

Pass

The effects of filter media release were not assessed. Manufacturer to certify.

NAs

7.7 Practical performance

Model ZH4310V

Specimen and Subject details:

Specimen	Subject
448	KDS
449	-

Pass

NAs

No adverse comments were made following testing.

7.9.2 Penetration of filter material

Model ZH3310V

Sodium chloride

Specimen	Condition	Penetration (%)	
		After 3 minutes	Max during exposure
211	A.R.	0.18	
212		0.22	
213		0.13	
220	S.W.	Not requested	
221			
222			
226	M.S. + T.C.	0.41	0.41
227		0.42	0.42
228		0.42	0.42
Maximum permitted		6.0	

Pass

Pass

Pass

NAs

NAs

NAs

Pass

Pass

Pass



Specimen	Condition	Penetration (%)		
		After 3 minutes	Max during exposure	
214	A.R.	0.80		Pass
215		0.67		Pass
216		0.70		Pass
223	S.W.	Not requested		NAs
224				NAs
225				NAs
229	M.S. + T.C.	2.03	2.65	Pass
230		1.58	2.14	Pass
263		1.58	2.00	Pass
Maximum permitted		6.0		

Model ZH4310V**Paraffin oil**

Specimen	Condition	Penetration (%)		
		After 3 minutes	Max during exposure	
414	A.R.	0.51		Pass
415		0.57		Pass
416		0.74		Pass
423	S.W.	Not requested		NAs
424				NAs
425				NAs
429	M.S. + T.C.	1.44	1.98	Pass
430		1.26	1.80	Pass
431		1.26	1.71	Pass
Maximum permitted		6.0		

7.11 Flammability**Model ZH4310V**

Specimens 444 and 445 (A.R.) and 446 and 447 (T.C.) were tested. None of the specimens ignited.

Pass

7.13 Head harness**Model ZH4310V**

The head harness was designed to allow the particle filtering half-mask to be donned and removed easily during limited practical performance testing.

Ltd

The head harness was self-adjusting and there were no adverse comments regarding security following limited practical performance testing.

Ltd

Inward leakage testing was not carried out.

NAs

7.14 Field of vision**Model ZH4310V**

There were no adverse comments following limited practical performance tests.

Ltd

7.15 Exhalation valve**Model ZH4310V**

There were no observed problems during limited testing of function in all orientations. See 7.16 for results.

Ltd

The valve was protected against dirt and mechanical damage by a shroud.

Pass

Inward leakage testing was not carried out.

NAs

There were no observed problems when assessing operation after high exhalation flow during limited testing carried out. See the table below.

Pass

Specimen	Condition	Inhalation resistance (mbar)		Exhalation resistance (mbar)
		At 30 l/min	At 95 l/min	At 160 l/min
438	A.R. + F.C.	0.31	1.23	1.10
439	T.C. + F.C.	0.39	1.42	1.31
440		0.47	1.57	1.68
Maximum permitted		0.7	2.4	3.0

The valve housing withstood 10N applied for 10s. Specimens 432 (A.R.), 433 (T.C.) and 434 (M.S.) were tested.

Pass

7.16 Breathing resistance

Model ZH4310

Ltd

Specimen	Condition	Inhalation resistance (mbar)		Exhalation resistance (mbar)
		At 30 l/min	At 95 l/min	At 160 l/min
311	A.R.	Not requested		2.57
312				2.50
313				2.60
317	T.C.	Not requested		2.29
318				2.42
319				2.38
320	S.W.	Not requested		2.42
324				2.49
325				2.57
Maximum permitted				3.0

9 Marking

All models

9.1 Packaging

The specimens were submitted in clear plastic bags with a label on.

The marking on the packaging was clear and durable.

Pass

The markings required by the Standard were assessed as follows.

9.1.1 The manufacturer's identification was not present.

Fail

9.1.2 Type identification was marked.

Pass

9.1.3 The classification was not given.

Fail

9.1.4 The number and year of the standard were not given.

Fail

9.1.5 The end of shelf life was not given.

Fail

9.1.6 Neither the required statement nor pictogram relating to manufacturer's information were present.

Fail

9.1.7 The recommended storage requirements were not given.

Fail

9.1.8 The letter "D" was neither appropriate nor marked.

NAP

9.2 Particle filtering half mask

The particle filtering half mask was not marked.

Fail

10 Information to be supplied by the manufacturer

The instructions to users have been assessed as detailed below, with reference only to the relevant requirements of the Standard.

INSPEC Testing Services has not assessed these instructions with respect to claims made by the manufacturer outside of the requirements of the Standard, and therefore accepts no responsibility for the legitimacy of any such claims.

The information specified by the Standard was assessed as follows.

Models ZH3310V and ZH4310V

10.1	The information did not accompany smallest package, an example copy was sent.	Fail
10.2	Were in the official language (English).	Pass
10.3	Contained all necessary information for trained and qualified persons apart from:-	Pass
	- colour codes were neither used or explained;	NAp
	- maintenance information was not given, the mask was designated single use;	NAp
10.4	Were clear and comprehensible.	Pass
10.5	Required warnings were given against various problems likely to be encountered.	Pass
10.6	Discard information was provided.	Pass
10.7	The product was marked NR and the required warning was given.	Pass

Estimates of the uncertainty of measurement

Clause	Test	Uncertainty
7.4	Packaging	-
7.5	Material	*
7.6	Cleaning and disinfecting	-
7.7	Practical performance	*
7.8	Finish of parts	-
7.9.1	Total inward leakage	± 4.7%
7.9.2	Penetration of filter material - Sodium chloride	± 4.7%
7.9.2	Penetration of filter material - Paraffin oil	± 4.1%
7.10	Compatibility with skin	-
7.11	Flammability	*
7.12	CO ₂ content of the inhalation air	± 4.0%
7.13	Head harness	-
7.14	Field of vision	*
7.15	Exhalation valve(s)	*
7.16	Breathing resistance	± 1.8%
7.17.2	Breathing resistance after clogging	± 3.9%
7.17.3	Filter penetration after clogging - Sodium chloride	± 4.7%
7.17.3	Filter penetration after clogging - Paraffin oil	± 4.1%
7.18	Demountable parts	-

* The acceptance criterion for this test is a straightforward "Pass/Fail", rather than a numerical value. Consequently, as there is no value to be reported, uncertainty has not been reported either.

Values expressed as a percentage (%) are relative.

It should be noted that the above values have not been taken into account when making assessment to the pass/fail criteria.



This Annex comprises one section.

1. Photographs of the products tested. (4 pages)



DECLARATION OF CONFORMITY

PRODUCT TYPE: Particulate Respirators
Model Name: ZH3310
Classification: FFP2 NR
Lot: 20200403
ZH3310



The manufacture or his nominated representative established in the community:

Manufacturer:

Shanghai Zhongzhi Health Articles Co.,Ltd

No. 1068, Mingye Road, Sheshan Industrial Zone, Songjiang District, Shanghai, China

Email: maskxmh@vip.163.com

EU Authorized Representative:

Lotus NL B.V.

**Koningin Julianaplein 10, 1e Verd, 2595AA, The Hague, Nether
lands.**

Declares that the P.P.E described above in conformity with the provisions of Council **Regulation (EU) 2016/425** and where in such case the national standard transposing harmonized standard numbers:

EN 149:2001+A1:2009

Is identical to the P.P.E which is subject of Certificate number:

2495 (EC TYPE-EXAMINATION CERTIFICATE)

Module D certificate number: D-PPE19171018

Issued by:

**INSPEC International Ltd (0194)
56 Leslie Hough Way Salford,
Greater Manchester M6 6AJ,
United Kingdom.**

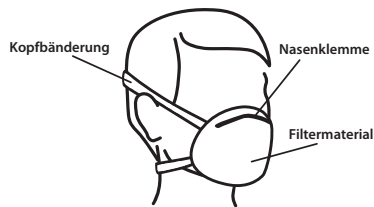
**上海众志卫生用品有限公司
SHANGHAI ZHONGZHI HEALTH ARTICLES CO.,LTD.**

**Quality management representative
05th April 2019**

Atemschutzmaske - Filtrierende Halbmaske zum Schutz gegen Partikeln



BB Sport GmbH & Co. KG
Soederbergstrasse 14
84513 Toeging am Inn



DIN EN 149:2001+A1:2009
FFP2 NR
ZH3310



Anwendung:

1. Vor der Benutzung Atemschutz auf augenscheinliche Mängel (z.B. Brüche, Risse) und Funktionsfähigkeit überprüfen
2. Beim Anlegen der Maske auf ausreichenden Dichtsitz achten. Bärte oder tiefe Narben können eine Leckage zwischen Maske und Gesicht herbeiführen und stellt so eine Gefahr für den Anwender dar.
3. Falsches Benutzen kann zu schweren körperlichen Schädigungen führen.
4. Diese Schutzmaske darf nicht in explosionsfähiger Atmosphäre eingesetzt werden.
5. Nicht zu Fluchtzwecken geeignet.

Anlegen der Maske:

1. Unteres Kopfband über den Kopf ziehen und im Nacken platzieren
2. Mit dem Kinn einsteigen, danach über die Nase ziehen
3. Oberes Kopfband oberhalb der Ohren platzieren
4. Nasenklemme mit beiden Zeigefingern an Nase drücken und anpassen
5. Dichtsitz der Maske prüfen - Bei Luftaustritt erneut anpassen

Gebrauch:

FFP2 Atemschutzmasken schützen zuverlässig vor Stoffen, die zur Entstehung von Atemwegserkrankungen führen können, vor schlechten Gerüchen, sowie vor gesundheitsschädliche Stäube, Rauch und Aerosole.

Schützt vor bis zum 10-fachen des Grenzwerts.

Partikelfiltrierende Halbmasken FFP2 sind nicht gegen CMR-Stoffe und radioaktive Stoffe sowie luftgetragene biologische Arbeitsstoffe mit der Einstufung in Risikogruppe 3 und Enzyme sicher.

Gültigkeitsdauer: 3 Jahre ab Herstellung

Lagerung:

Atemschutzmasken müssen trocken und in sauberer Umgebung in einem geschlossenen Behälter aufbewahrt werden.

Temperaturbereich: -10 bis 45° C

Warnhinweise:

Halbmasken dürfen für nicht mehr als eine Schicht benutzt werden!

Defekte Atemschutzmasken sind sofort auszutauschen.

Bedenken Sie, dass in einer staubigen Umgebung ein unzureichender Sauerstoffgehalt gegeben sein könnte. Auch eine Atemschutzmaske kann einen unzureichenden Sauerstoffgehalt nicht kompensieren.

Es obliegt dem Besteller, vor Verwendung des Produktes selbst zu überprüfen, ob es sich, auch im Hinblick auf mögliche anwendungswirksame Einflüsse, für den von ihm vorgesehenen Anwendungszweck eignet.

Folgen von Sauerstoffmangel auf den menschlichen Organismus können auftreten.

Markierung:

EN149:2001+A1:2009	Europäische Norm
	Gebrauchsanweisung beachten
CE	Konformitätskennzeichen entsprechend der PSA-VO (EU) 2016/425
0194	Benannte Stelle zur Produktkontrolle
FFP2	Klassenkennzeichnung
NR	Hinweis Benutzungsdauer
alpidex	Importeur
ZH3310	Typenkennzeichnung

Benannte Stelle zur Durchführung der Zertifizierung:

INSPEC International Ltd. - 56 Leslie Hough Way, Salford, Greater Manchester M6 6AJ, United Kingdom

EU-Konformitätserklärung:

<http://www.alpidex.com/tpl/download/EU-Konformitaetserklaerung-Atemschutzmaske.jpg>

BB Sport GmbH & Co. KG - Söderbergstr. 14 - 84513 Töging am Inn - Germany - Tel.: 08631/988-2021 - Email: service@alpidex.com - Internet: www.alpidex.com