

TEST REPORT

No. **8621.SH.2007.0110** Date: **07.24, 2020** Page: **1 / 12**

Applicant : CHANGXING ZHIWEI CLOTHING MATERIALS CO., LTD
Address : NO.8 CHANGQIAO ROAD, HUAXI ZONE, CHANGXING COUNTRY,
HUZHOU CITY, ZHEJIANG PROVINCE, CHINA

Below information submitted by the applicant:

Product Name : Particle Filtering half mask
Model : ZW9501
Model may cover : /
Reference info. : /
Manufacturer info. : CHANGXING ZHIWEI CLOTHING MATERIALS CO., LTD
Supplier info. : /
Buyer info. : /
Country of Destination : /
Country of Origin : China

Sample Received : 07.21, 2020
Test Period : 07.21, 2020 - 07.24, 2020
Test Requirement : Refer to next pages
Test Method : Refer to next pages
Test Result : Refer to next pages
Test Conclusion : Refer to next pages

Signed for and on behalf of
Jordan Wang, General Manager
BU Chemical Compliance
TUV THURINGEN (SHANGHAI) CO., LTD.
Location: Shanghai

TÜV Thüringen CHINA

TEST REPORT

No. **8621.SH.2007.0110**

Date: **07.24, 2020**

Page: **2 / 12**

TEST RESULTS

As the applicant required, to carry the test items as below:

Test Items	Verdict
1. According to European Commission Regulation 1907/2006 (concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC), to test the SVHC content which have been listed in ECHA's SVHC candidate list till Jun.25, 2020 http://echa.europa.eu/web/guest/candidate-list-table - REACH SVHC content in candidate list till 2020.06.25, less than 0.1%	PASS

SAMPLE DESCRIPTION

Sample description : 1#. white mask



TEST RESULTS

1. REACH SVHC in candidate lists

Test Method: In-house method with reference to EPA: 8270D, 3052, 6010C, 3550C, 8321B, EN14362, DIN EN ISO 17353, IEC 62321, AfPS GS 2019:01 and EN 14582 etc

Abbr.: MDL, means Method Detection Limit; N.D. = Not Detected, means the content is less than MDL.

Seq. Test Item(s)	Units	MDL	Results
			1#
All tested SVHC in candidate lists	---	---	N.D.

Table, Test Parameter& MDL for SVHC listed in candidate lists

Seq.	Test Item(s)	EC. No.	CAS No.	MDL (%)
1	2,4-Dinitrotoluene	204-450-0	121-14-2	0.01
2	2-Ethoxyethanol	203-804-1	110-80-5	0.005
3	2-Methoxyethanol	203-713-7	109-86-4	0.005
4	4,4'- Diaminodiphenylmethane(MDA)	202-974-4	101-77-9	0.005
5	5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	201-329-4	81-15-2	0.005
6	Acrylamide	201-173-7	79-06-1	0.01
7	Alkanes, C ₁₀₋₁₃ , chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	0.005

TEST REPORT

No. **8621.SH.2007.0110**

Date: **07.24, 2020**

Page: **3 / 12**

Seq.	Test Item(s)	EC. No.	CAS No.	MDL (%)
8	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions: a) Al ₂ O ₃ and SiO ₂ are present within the following concentration ranges: Al ₂ O ₃ : 43.5 – 47 % w/w, and SiO ₂ : 49.5 – 53.5 % w/w, or Al ₂ O ₃ : 45.5 – 50.5 % w/w, and SiO ₂ : 48.5 – 54 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm)**	---	---	0.01
9	Ammonium dichromate*	232-143-1	7789-09-5	0.01
10	Anthracene	204-371-1	120-12-7	0.005
11	Anthracene oil	292-602-7	90640-80-5	0.01
12	Anthracene oil, anthracene paste	292-603-2	90640-81-6	0.01
13	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	0.01
14	Anthracene oil, anthracene paste; distn. Lights	295-278-5	91995-17-4	0.01
15	Anthracene oil, anthracene-low	292-604-8	90640-82-7	0.01
16	Benzyl butyl phthalate(BBP)	201-622-7	85-68-7	0.005
17	Bis(2-ethylhexyl)phthalate(DEHP)	204-211-0	117-81-7	0.005
18	Bis(tributyltin)oxide(TBTO)**	200-268-0	56-35-9	0.005
19	Boric acid*	233-139-2 / 234-343-4	10043-35-3 / 11113-50-1	0.01
20	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	231-801-5 236-881-5	7738-94-5 13530-68-2	0.01
21	Chromium trioxide*	215-607-8	1333-82-0	0.01
22	Cobalt dichloride*	231-589-4	7646-79-9	0.01
23	Cobalt(II) carbonate*	208-169-4	513-79-1	0.01
24	Cobalt(II) diacetate*	200-755-8	71-48-7	0.01
25	Cobalt(II) dinitrate*	233-402-1	10141-05-6	0.01
26	Cobalt(II) sulphate*	233-334-2	10124-43-3	0.01
27	Diarsenic pentaoxide*	215-116-9	1303-28-2	0.01
28	Diarsenic trioxide*	215-481-4	1327-53-3	0.01
29	Dibutyl Phthalate(DBP)	201-557-4	84-74-2	0.005
30	Diisobutyl Phthalate(DIBP)	201-553-2	84-69-5	0.01
31	Disodium tetraborate, anhydrous*	215-540-4	1303-96-4/ 1330-43-4/ 12179-04-3	0.01
32	Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 and 221-695-9	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	0.005
33	Lead chromate*	231-846-0	7758-97-6	0.01
34	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	235-759-9	12656-85-8	0.01

TEST REPORT

No. **8621.SH.2007.0110**

Date: **07.24, 2020**

Page: **4 / 12**

Seq.	Test Item(s)	EC. No.	CAS No.	MDL (%)
35	Lead hydrogen arsenate*	232-064-2	7784-40-9	0.01
36	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	215-693-7	1344-37-2	0.01
37	Coal tar pitch, high temperature	266-028-2	65996-93-2	0.01
38	Potassium chromate*	232-140-5	7789-00-6	0.01
39	Potassium dichromate*	231-906-6	7778-50-9	0.01
40	Sodium chromate*	231-889-5	7775-11-3	0.01
41	Sodium dichromate*	234-190-3	7789-12-0/ 10588-01-9	0.01
42	Tetraboron disodium heptaoxide, hydrate*	235-541-3	12267-73-1	0.01
43	Trichloroethylene	201-167-4	79-01-6	0.01
44	Triethyl arsenate*	427-700-2	15606-95-8	0.01
45	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	0.01
46	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions: a) Al ₂ O ₃ , SiO ₂ and ZrO ₂ are present within the following concentration ranges: Al ₂ O ₃ : 35 – 36 % w/w, and SiO ₂ : 47.5 – 50 % w/w, and ZrO ₂ : 15 - 17 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) ***	---	---	0.01
47	2-ethoxyethyl acetate	203-839-2	111-15-9	0.01
48	Strontium chromate*	232-142-6	7789-06-2	0.01
49	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	0.01
50	Hydrazine	206-114-9	7803-57-8 302-01-2	0.01
51	1-methyl-2-pyrrolidone	212-828-1	872-50-4	0.01
52	1,2,3-trichloropropane	202-486-1	96-18-4	0.01
53	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	276-158-1	71888-89-6	0.01
54	Lead dipicrate*	229-335-2	6477-64-1	0.01
55	Lead styphnate*	239-290-0	15245-44-0	0.01
56	Lead azide Lead diazide*	236-542-1	13424-46-9	0.01
57	Phenolphthalein	201-004-7	77-09-8	0.01
58	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	0.01
59	N,N-dimethylacetamide	204-826-4	127-19-5	0.01
60	Trilead diarsenate*	222-979-5	3687-31-8	0.01
61	Calcium arsenate*	231-904-5	7778-44-1	0.01
62	Arsenic acid*	231-901-9	7778-39-4	0.01
63	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	0.01

TEST REPORT

No. 8621.SH.2007.0110

Date: 07.24, 2020

Page: 5 / 12

Seq.	Test Item(s)	EC. No.	CAS No.	MDL (%)
64	1,2-Dichloroethane	203-458-1	107-06-2	0.01
65	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	0.01
66	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	0.01
67	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	0.01
68	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	0.01
69	Pentazinc chromate octahydroxide*	256-418-0	49663-84-5	0.01
70	Potassium hydroxyoctaoxodizincatedi-chromate*	234-329-8	11103-86-9	0.01
71	Dichromium tris(chromate)*	246-356-2	24613-89-6	0.01
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	0.01
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	0.01
74	Diboron trioxide*	215-125-8	1303-86-2	0.01
75	Formamide	200-842-0	75-12-7	0.01
76	Lead(II) bis(methanesulfonate) *	401-750-5	17570-76-2	0.01
77	TGIC (1,3,5-tris(oxiranymethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	219-514-3	2451-62-9	0.01
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	423-400-0	59653-74-6	0.01
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	202-027-5	90-94-8	0.01
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	0.01
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] ****	208-953-6	548-62-9	0.01
82	[4-[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] ****	219-943-6	2580-56-5	0.01
83	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] ****	229-851-8	6786-83-0	0.01
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] ****	209-218-2	561-41-1	0.01
85	Bis(pentabromophenyl) ether (DecaBDE)	214-604-9	1163-19-5	0.01
86	Pentacosfluorotridecanoic acid	276-745-2	72629-94-8	0.01
87	Tricosfluorododecanoic acids	206-203-2	307-55-1	0.01
88	Henicosfluoroundecanoic acid	218-165-4	2058-94-8	0.01
89	Heptacosfluorotetradecanoic acid	206-803-4	376-06-7	0.01
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	---	---	0.01
91	4-Nonylphenol, branched and linear -substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	---	---	0.01
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	0.01

TEST REPORT

No. **8621.SH.2007.0110**

Date: **07.24, 2020**

Page: **6 / 12**

Seq.	Test Item(s)	EC. No.	CAS No.	MDL (%)
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	201-604-9	85-42-7	0.01
94	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	0.01
95	Methoxy acetic acid	210-894-6	625-45-6	0.01
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	0.01
97	Diisopentylphthalate (DIPP)	210-088-4	605-50-5	0.01
98	N-pentyl-isopentylphthalate	---	---	0.01
99	1,2-Diethoxyethane	211-076-1	629-14-1	0.01
100	N,N-dimethylformamide; dimethyl formamide	200-679-5	68-12-2	0.01
101	Dibutyltin dichloride (DBT)	211-670-0	683-18-1	0.01
102	Acetic acid, lead salt, basic*	257-175-3	51404-69-4	0.01
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide)*	215-290-6	1319-46-6	0.01
104	Lead oxide sulfate (basic lead sulfate)*	234-853-7	12036-76-9	0.01
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)*	273-688-5	69011-06-9	0.01
106	Dioxobis(stearato)trilead*	235-702-8	12578-12-0	0.01
107	Fatty acids, C16-18, lead salts*	292-966-7	91031-62-8	0.01
108	Lead bis(tetrafluoroborate)*	237-486-0	13814-96-5	0.01
109	Lead cyanamate*	244-073-9	20837-86-9	0.01
110	Lead dinitrate*	233-245-9	10099-74-8	0.01
111	Lead oxide (lead monoxide)*	215-267-0	1317-36-8	0.01
112	Lead tetroxide (orange lead)*	215-235-6	1314-41-6	0.01
113	Lead titanium trioxide*	235-038-9	12060-00-3	0.01
114	Lead Titanium Zirconium Oxide*	235-727-4	12626-81-2	0.01
115	Pentalead tetraoxide sulphate*	235-067-7	12065-90-6	0.01
116	Pyrochlore, antimony lead yellow*	232-382-1	8012-00-8	0.01
117	Silicic acid, barium salt, lead-doped*	272-271-5	68784-75-8	0.01
118	Silicic acid, lead salt*	234-363-3	11120-22-2	0.01
119	Sulfurous acid, lead salt, dibasic*	263-467-1	62229-08-7	0.01
120	Tetraethyllead*	201-075-4	78-00-2	0.01
121	Tetralead trioxide sulphate*	235-380-9	12202-17-4	0.01
122	Trilead dioxide phosphonate*	235-252-2	12141-20-7	0.01
123	Furan	203-727-3	110-00-9	0.01
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	200-879-2	75-56-9	0.01
125	Diethyl sulphate	200-589-6	64-67-5	0.01
126	Dimethyl sulphate	201-058-1	77-78-1	0.01
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	0.01
128	Dinoseb	201-861-7	88-85-7	0.01
129	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	0.01
130	4,4'-oxydianiline and its salts	202-977-0	101-80-4	0.01

TEST REPORT

No. 8621.SH.2007.0110

Date: 07.24, 2020

Page: 7 / 12

Seq.	Test Item(s)	EC. No.	CAS No.	MDL (%)
131	4-Aminoazobenzene	200-453-6	60-09-3	0.01
132	4-methyl-m-phenylenediamine (toluene -2,4 -diamine)	202-453-1	95-80-7	0.01
133	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	0.01
134	Biphenyl-4-ylamine	202-177-1	92-67-1	0.01
135	O-aminoazotoluene	202-591-2	97-56-3	0.01
136	O-Toluidine	202-429-0	95-53-4	0.01
137	N-methylacetamide	201-182-6	79-16-3	0.01
138	1-bromopropane(n-propyl bromide)	203-445-0	106-94-5	0.01
139	Cadmium*	231-152-8	7440-43-9	0.01
140	Cadmium oxide*	215-146-2	1306-19-0	0.01
141	Ammonium pentadecafluorooctanoate(APFO)	223-320-4	3825-26-1	0.01
142	Pentadecafluorooctanoic acid(PFOA)	206-397-9	335-67-1	0.01
143	Dipentyl phthalate(DPP)	205-017-9	131-18-0	0.01
144	4-Nonylphenol, branched and linear,ethoxylated	---	---	0.01
145	Cadmium sulphide*	215-147-8	1306-23-6	0.01
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	0.03
147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	217-710-3	1937-37-7	0.03
148	Diethyl phthalate	201-559-5	84-75-3	0.01
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	0.03
150	Lead di(acetate) *	206-104-4	301-04-2	0.01
151	Trixylyl phosphate	246-677-8	25155-23-1	0.01
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	0.01
153	Sodium perborate; perboric acid, sodium salt *	239-172-9; 234-390-0	---	0.01
154	Sodium peroxometaborate*	231-556-4	7632-04-4	0.01
155	Cadmium chloride*	233-296-7	10108-64-2	0.01
156	Cadmium Fluoride	232-222-0	7790-79-6	0.01
157	Cadmium Sulphate	233-331-6	10124-36-4 31119-53-6	0.01
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	0.01
159	2-(2H-benzotriazol-2-yl)-4,6-diterphenylphenol (UV-328)	247-384-8	25963-55-1	0.01
160	2-ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate(DOTE)	239-622-4	15571-58-1	0.01
161	Reaction mass of 2-ethylhexyl-10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	-	0.01
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	271-049-0 272-013-1	68515-51-5 68648-93-1	0.01

TEST REPORT

No. **8621.SH.2007.0110**

Date: **07.24, 2020**

Page: **8 / 12**

Seq.	Test Item(s)	EC. No.	CAS No.	MDL (%)
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	-	0.01
164	1,3-propanesultone	214-317-9	1120-71-4	0.01
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	0.01
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	0.01
167	Nitrobenzene	202-716-0	98-95-3	0.01
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4	0.01
169	Benzo(def)chrysene	200-028-5	50-32-8	0.01
170	4,4-isopropylidenediphenol (Bisphenol A)	201-245-8	80-05-7	0.01
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 221-470-5	3108-42-7 335-76-2 3830-45-3	0.01
172	4-heptylphenol, branched and linear (4-HPbl)	-	-	0.01
173	4-tert-penylphenol (PTAP)	201-280-9	80-46-6	0.01
174	Perfluorohexane-1-sulphonic acid and its salts	206-587-1	355-46-4	0.01
175	Dechlorane Plus(TM) and reaction products of 1,3,4-thiadiazolidine-2,5-dithione	/	13560-89-9 135821-74-8 135821-03-3	0.01
176	benz[a]anthracene	200-280-6	56-55-3	0.01
177	cadmium nitrate	233-710-6	10325-94-7	0.01
178	cadmium carbonate	208-168-9	513-78-0	0.01
179	cadmium hydroxide	244-168-5	21041-95-2	0.01
180	chrysene	205-923-4	218-01-9	0.01
181	formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	/	/	0.01
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride)	209-8-0	552-30-7	0.01
183	Benzo[ghi]perylene	205-883-8	191-24-2	0.005
184	Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6	0.005
185	Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7	0.01
186	Disodium octaborate	234-541-0	12008-41-2	0.005
187	Dodecamethylcyclohexasiloxane (D6)	208-762-8	540-97-6	0.005
188	Ethylenediamine	203-468-6	107-15-3	0.01
189	Lead	231-100-4	7439-92-1	0.005
190	Octamethylcyclotetrasiloxane (D4)	209-136-7	556-67-2	0.005
191	Terphenyl hydrogenated	262-967-7	61788-32-7	0.005
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8	0.005
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	0.005
194	Benzo[k]fluoranthene	205-916-6	207-08-9	0.005
195	Fluoranthene	205-912-4	206-44-0 93951-69-0	0.005

TEST REPORT

No. **8621.SH.2007.0110**

Date: **07.24, 2020**

Page: **9 / 12**

Seq.	Test Item(s)	EC. No.	CAS No.	MDL (%)
196	Phenanthrene	201-581-5	85-01-8	0.005
197	Pyrene	204-927-3	129-00-0 1718-52-1	0.005
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	---	---	0.01
199	2-methoxyethyl acetate	203-772-9	110-49-6	0.01
200	4-tert-butylphenol	202-679-0	98-54-4	0.01
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq$ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	---	---	0.01
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	0.01
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	400-600-6	71868-10-5	0.01
204	Diisohexyl phthalate	276-090-2	71850-09-4	0.01
205	Perfluorobutane sulfonic acid (PFBS) and its salts	---	---	0.01
206	1-vinylimidazole	214-012-0	1072-63-5	0.01
207	2-methylimidazole	211-765-7	693-98-1	0.01
208	Butyl 4-hydroxybenzoate	202-318-7	94-26-8	0.01
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	0.01

***** To be continued *****

TEST REPORT

No. **8621.SH.2007.0110**Date: **07.24, 2020**Page: **10 / 12****Remark 1**

1) In accordance with Regulation(EC) No. 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:

(a) the substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;

(b) the substance is present in those articles above a concentration of 0,1 % weight by weight (w/w).

2) From 28 October 2008, EU & EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) must provide sufficient information, available to them, to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.

Remark 2

1)* Calculated concentration of cobalt dichloride, cobalt(II) sulphate, cobalt(II) dinitrate, cobalt(II) carbonate and cobalt(II) diacetate is based on the identified heavy metal and anion result. Calculated concentration of diarsenic pentaoxide, diarsenic trioxide, chromium trioxide, sodium dichromate, dehydrate, lead hydrogen arsenate, triethyl arsenate, lead chromate, sodium chromate, strontium chromate, potassium chromate, ammonium dichromate, potassium dichromate, lead chromate molybdate sulfate red, lead sulfochromate yellow and acids generated from chromium trioxide and their oligomers, Lead dipicrate, Lead styphnate, Lead azide Lead diazide, Trilead diarsenate, Calcium arsenate, Arsenic acid, Potassium hydroxyoctaoxodizincatedi-chromate, Dichromium tris(chromate), Pentazinc chromate octahydroxide, Lead(II) bis(methanesulfonate), Diboron trioxide, Acetic acid, lead salt, basic, Basic lead carbonate (trilead bis(carbonate)dihydroxide), Lead oxide sulfate (basic lead sulfate), [Phthalato(2-)]dioxotrilead (dibasic lead phthalate), Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Lead bis(tetrafluoroborate), Lead cyanamide, Lead dinitrate, Lead oxide (lead monoxide), Lead tetroxide (orange lead), Lead titanium trioxide, Lead Titanium Zirconium Oxide, Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow, Silicic acid, barium salt, lead-doped, Sulfurous acid, lead salt, dibasic, Tetraethyllead, Tetralead trioxide sulphate, Trilead dioxide phosphonate, Cadmium, Cadmium oxide, Cadmium sulphide and Lead di(acetate), Cadmium chloride are based on the identified heavy metal result, boric acid, disodium tetraborate, anhydrous and tetraboron disodium heptaoxide, hydrate, Sodium perborate; perboric acid, sodium salt, Sodium peroxometaborate are based on the identified result of boron and sodium result. The identities of above metal substances present in the article have to be further confirmed;

2)** Concentration of bis(tributyltin)oxide, TBTO is reported as tributyltin, TBT. The result is a screening test of TBTO and can cover TBTO and other salts under current technologies. Further investigation is needed to have the exact amount of TBTO;

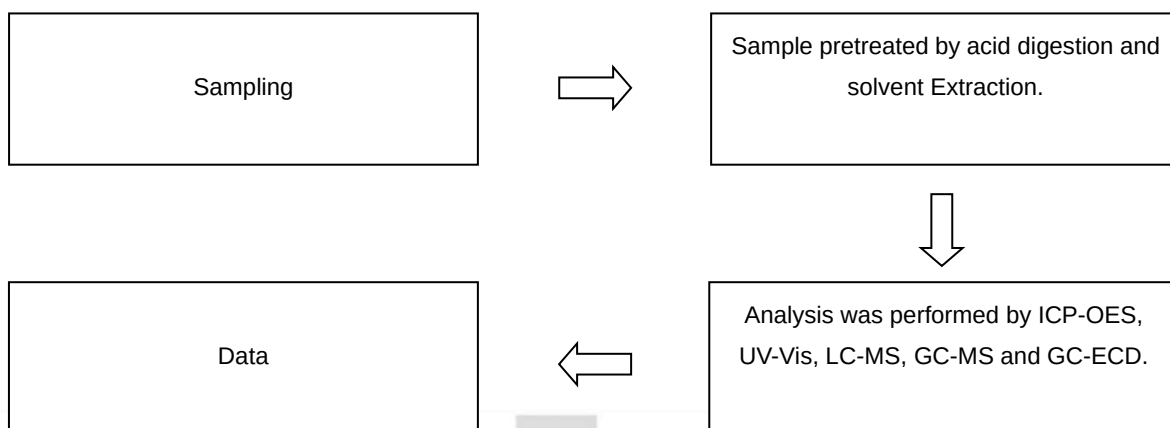
3)*** Calculated concentration of Aluminosilicate, Refractory Ceramic Fibres ;Zirconia Aluminosilicate, Refractory Ceramic Fibres is based on the identified heavy metal result and confirmation by microscope;

4) ****The substance does only fulfil the criteria of REACH Art. 57 (a) if it contains Michler's ketone (EC Number: 202-027-5) or Michler's base (EC Number: 202-959-2) in a concentration $\geq 0.1\%$ (weight / weight);

5) N.D. = Not detected, less than MDL.

***** To be continued *****

FLOW CHART



***** To be continued *****

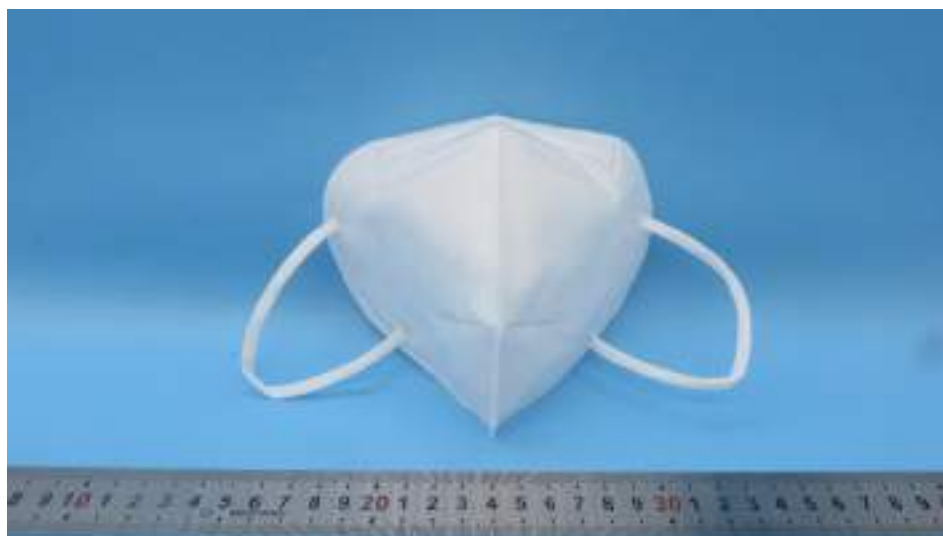
TEST REPORT

No. 8621.SH.2007.0110

Date: 07.24, 2020

Page: 12 / 12

SAMPLE IMAGE



Tested samples

**** END OF REPORT ****



Statement of Conformity

In compliance with the article 7(2) of the regulation EC No.1907/2006 of 18th December 2006, concerning the registration, evaluation, authorization and restriction of chemicals (REACH)

Applicant:	CHANGXING ZHIWEI CLOTHING MATERIALS CO., LTD NO.8 CHANGQIAO ROAD, HUAXI ZONE, CHANGXING COUNTRY, HUZHOU CITY, ZHEJIANG PROVINCE, CHINA
Manufacturer	CHANGXING ZHIWEI CLOTHING MATERIALS CO., LTD
Product description	Particle Filtering half mask
Model No.	ZW9501
Model May Cover	/
Materials:	/
Test report	8621.SH.2007.0110, 2020-07-24
Date of issue	Jul.24, 2020
Conclusion:	

The statement of conformity is based on an evaluation of a sample of the above-mentioned product. Technical report and documentation are at the applicant's disposal. This is to prove that the tested sample is in compliance with **European Commission Regulation No.1907/2006 and its currently amendments on article 7(2) with substances content less than notification requirement:**

Article 7(2) Any producer or importer of articles shall notify the Agency, in accordance with paragraph 4 of this Article, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:

(a) the substance is present in those articles in quantities totalling over one tonne per producer or importer per year;

(b) the substance is present in those articles above a concentration of 0,1 % weight by weight (w/w).

Candidate list of substances of very high concern for authorization of REACH regulation in thresholds:
<https://echa.europa.eu/candidate-list-table>

And, this is only a verification based on the analysis of the product, component or materials, not on assessment of the products or the production procedure. It refers only to the sample submitted and does not certify the quality or safety of the serial products. After preparation of the necessary technical documentation as well as EU declaration of conformity the required CE marking can be affixed on the product. Other relevant directives have to be observed.

For and on behalf of
TUV Thuringen (Shanghai) Co., Ltd.

TUV THURINGEN (SHANGHAI) CO., LTD.
ROOM C6, FLOOR 16TH JIANGSU BUILDING, NO.526 LAOSHAN ROAD, SHANGHAI 200122, P.R.CHINA
E-mail: shanghai@tuv-thuringen.de website: <http://www.tuv-thuringen.com.cn>
Copyright of this verification of conformity is owned by TUV THURINGEN (SHANGHAI) CO., LTD. And may not be reproduced other than in full and with the prior approval of the general manager.



AC 114

CERTYFIKAT BADANIA TYPU UE (MODUŁ B) EU TYPE-EXAMINATION CERTIFICATE (MODULE B)

Nr
Id. CW/PPER/16/06/2020**ZAŚWIADCZA SIĘ,**

że Polski Rejestr Statków S.A. (PRS) przeprowadził procedurę badania typu wymienionego niżej wyrobu i stwierdził jego zgodność z wymaganiami określonymi w załączniku V do Rozporządzenia Parlamentu Europejskiego i Rady (UE) 2016/425 (PPE) w sprawie środków ochrony indywidualnej oraz uchylecia dyrektywy Rady 89/686/EWG, ze zmianami.

THIS IS TO CERTIFY

that Polski Rejestr Statków S.A. (PRS) did undertake the EU type-examination procedure for the product identified below which was found to be in compliance with the requirements of Annex V to the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC, as amended.

Wnioskodawca
Applicant

Changxing Zhiwei Clothing Materials Co., Ltd.
No.8 Changqiao Road, Huaxi Zone, Changxing County,
Huzhou City, Zhejiang Province, China.

Producent
Manufacturer

Changxing Zhiwei Clothing Materials Co., Ltd.
No.8 Changqiao Road, Huaxi Zone, Changxing County,
Huzhou City, Zhejiang Province, China.

Typ wyrobu
Product type

Sprzęt ochrony dróg oddechowych. Sprzęt ochrony dróg oddechowych bez zasilania powietrzem. Półmaska filtrująca chroniąca przed COVID-19.

Respiratory protective equipment. Non-powered air-purifying particle respirator.

Filtering half mask to protect against COVID-19.

Opis wyrobu
Product description

Półmaska filtrująca typu ZW9501 klasy FFP-2

Particle filtering half mask type ZW9501 class FFP-2

Zastosowane normy
Specified standards

PN-EN 149 + A1:2010

EN-149:2001 + A1:2009

Niniejszy certyfikat pozostaje ważny do czasu unieważnienia przy zachowaniu warunków uznania (patrz str. 2).

This certificate remains valid unless cancelled or revoked, provided the approval conditions (see page 2) are complied with.

Data ważności
Expiry date

2021-06-01

Dyrektor Pionu Certyfikacji
Certification Division Director

Przemysław Gałka

Gdańsk, 2020-06-02

Nr jednostki notyfikowanej
No. of notified body

1463

NOTIFIED BODY

NO.1463

Polski Rejestr Statków S.A.
ul. Gen. Józefa Hallera 126
80-416 Gdańsk, Poland

tel. (+48) (58) 346 17 00
fax (+48) (58) 341 77 69
e-mail: dc@prs.pl
www: <http://www.prs.pl/>

Wykaz dokumentacji
List of documents

1. Instrukcja użytkowania - zatwierdzona przez PRS S.A. dnia 2020-05-27.
2. Ocena ryzyka - zatwierdzona przez PRS S.A. dnia 2020-05-27.
3. Rysunek Półmaski typu ZW9501 - zatwierdzony przez PRS S.A. dnia 2020-05-27.
4. Raport z badań nr WSZ FHL No.W0086 wydany przez Jiangsu Guojian Testing Technology Co., Ltd. w dniu 2020-05-07.
5. Sprawozdanie z przeglądu PRS S.A. nr CW/ZO/PPER/51/2020 z dnia 2020-06-01.

1. *Instructions for the use - approved by PRS S.A. on 2020-05-27.*
2. *Risk analysis - approved by PRS S.A. on 2020-05-27.*
3. *Assembly drawing Half Mask type ZW9501 - approved by PRS S.A. on 2020-05-27.*
4. *Test report No. WSZ FHL No.W0086 issued by Jiangsu Guojian Testing Technology Co., Ltd. dated 2020-05-07.*
5. *PRS S.A. Survey report No. CW/ZO/PPER/51/2020 dated 2020-06-01.*

Miejsca produkcji
(inne niż podane na stronie 1)
Places of production
(different than given on page 1)

-

Ograniczenia uznania
Approval limitations

1. Półmaska nie jest przeznaczona do użytkowania medycznego i chirurgicznego.
2. Półmaska nie powinna być używana w środowisku o stężeniu tlenu poniżej 19.5 %.
3. Półmaska przeznaczona do użytku podczas jednej zmiany.
4. Półmaska oceniona zgodnie z procedurą określoną w Zaleceniu Komisji (UE) 2020/403 z dnia 2020-03-13 oraz RfU PPE-R/02.075 wersja 1.
5. Dane techniczne:
 - półmaska z regulowanym klipsem na nos,
 - półmaska wykonana z 4-warstwowej włókniny z filtrem z tkaniny,
 - wymiary: 160 x 110 mm,
 - kolor: biały,
 - docelowa grupa użytkowa: dorośli dla obu płci.

1. *Half Mask can not be used for medical and surgical purposes.*
2. *Half Mask should not be used in an environment with oxygen contents less than 19.5%.*
3. *Half Mask designed for single shift use.*
4. *Half Mask evaluated in accordance with Commission Recommendation (EU) 2020/403 dated 2020/403 dated 2020-03-13 and RfU PPE-R/02.075 version 1.*
5. *Specifications:*
 - *half mask with adjustable nose clip,*
 - *half mask made with 4ply non-woven fabric with melt-blown fabric filter,*
 - *size: 160 x 110 mm,*
 - *color: white,*
 - *target group: unisex.*

Warunki uznania
Approval conditions

1. Niniejszy certyfikat straci ważność po wprowadzeniu zmian lub modyfikacji w wyrobie bez uprzedniego uzgodnienia z PRS.
This certificate becomes invalid after changes or modifications to the product without prior agreement with PRS.
2. Znak zgodności może być umieszczony na uznanym wyrobie oraz może być wystawiona deklaracja zgodności tylko pod warunkiem, że łącznie z badaniem typu UE zostanie przeprowadzona ocena zgodności produkcji pod nadzorem jednostki notyfikowanej, według załącznika VII lub VIII wymienionego wyżej rozporządzenia.
The Mark of Conformity may only be affixed to the above type approved product and a manufacturer's Declaration of Conformity issued provided the production is assessed under surveillance of a notified body according to Annex VII or VIII of the a/m Regulation.



AC 114

**CERTYFIKAT ZGODNOŚCI Z TYPEM W OPARCIU O WEWNĘTRZNĄ KONTROLĘ
PRODUKCJI ORAZ NADZOROWANE KONTROLE PRODUKTU
W LOSOWYCH ODSTĘPACH CZASU (Moduł C2)**

**CONFORMITY TO TYPE CERTIFICATE BASED ON INTERNAL PRODUCTION CONTROL
PLUS SUPERVISED PRODUCT CHECKS AT RANDOM INTERVALS (Module C2)**

Nr
No. CW/PPER/61/07/2020

Okres objęty certyfikatem
Period covered by the certificate

2020-07-10 – 2021-07-09

Dokumenty odniesienia:
General reference documents: Rozporządzenie UE 2016/425 dotyczące środków ochrony indywidualnej (PPE), załącznik VII
Regulation (EU) 2016/425 on personal protective equipment (PPE), Annex VII

Posiadacz certyfikatu
Certificate holder **Changxing Zhiwei Clothing Materials Co., Ltd.**
No.8 Changqiao Road, Huaxi Zone, Changxing County,
Huzhou City, Zhejiang Province, China.

Wyrób Product	Certyfikat badania typu UE EU Type-examination certificate	Normy zharmonizowane/Specyfikacje Harmonised standards/Specifications
Półmaska filtrująca typu ZW9501 klasy FFP-2 <i>Particle filtering half mask type ZW9501 class FFP-2</i>	CW/PPER/16/06/2020	PN-EN 149+A1:2010 EN 149:2001+A1:2009

A Roczna ocena zgodności wyrobów z normą/specyfikacją i badanym typem

Annual assessment of products compliance with standard/specification and type-examined

1 Miejsca i daty wizyt
Visit locations and dates **Changxing Zhiwei Clothing Materials Co., Ltd.**

2a Wyboru dokonał (imię, nazwisko)
Selection carried out by (Name) **Zbigniew Orłowski (zdalnie/remote)**
Związek z jednostką notyfikowaną
Relationship to notified body **Ekspert Biura Certyfikacji Wyrobów i Osób
Products and Persons Certification Bureau Expert**

2b Przedstawiciel firmy (imię, nazwisko)
Company representative (Name) **Tang Guo**
Stanowisko
Position **Quality Manager**

3 Związek pomiędzy wizytowaną firmą a posiadaczem certyfikatu badania typu UE
Relationship of company visited to EU type-examination certificate holder

- ☐ Posiadacz certyfikatu
Certificate holder ☒ Miejsce produkcji
Production site ☐ Inne miejsce produkcji
Secondary production site ☐ Importer
Importer ☐ Dystrybutor
Distributor
- ☐ Sprzedaż detaliczna
Retail outlet ☐ Europejskie biuro firmy
European office of the company ☐ Inny:
Other:

Wykaz środków ochrony indywidualnej
List of personal protection equipment ☒ Dostępny
Available ☐ Niedostępny
Not available

Wybór próbek
Sample selection ☒ Wybrano – Nr egz./partii:
Selected – lot/batch No. ☐ Nie wybrano
Not selected

4 Wybór próbek
Sample selection ☒ Prawidłowy
Correct ☐ Nieprawidłowy
Incorrect Wyniki badań
Result of tests ☒ Pozytywne
Positive ☐ Negatywne
Negative

5 Wybór próbek i badania wykazały zgodność z przywołanymi normami/specyfikacjami i badanym typem
Sample selection and testing demonstrated compliance with the reference standards/specifications and type-examined ☒ Tak
Yes ☐ Nie
No



Nr jednostki notyfikowanej
No. of notified body

1463

Polski Rejestr Statków S.A.
al. Gen. Józefa Hallera 126
80-416 Gdańsk, Poland

tel. (+48) (58) 346 17 00
fax (+48) (58) 346 03 92
e-mail: mailbox@prs.pl
www: http://www.prs.pl

B Roczna ocena niejednorodności produkcji
Annual assessment of production non-homogeneity

1 Zastosowana metoda przy dokonaniu oceny
Method employed to perform assessment

- ☐ Inspekcja procesu produkcyjnego i zapisów z prób
On-site review of production and test records
- ☐ Audit kontroli procesu produkcyjnego
On-site audit of production control
- ☐ Ocena niejednorodności produkcji poprzez ocenę jednej dużej próbki
Production non-homogeneity assessed by selection of a single, large sample
- ☐ Ocena niejednorodności produkcji poprzez ocenę próbek w ciągu roku
Production non-homogeneity assessed by assessment of samples throughout the year

2a Ocenę przeprowadził (imię, nazwisko)

Assessment carried out by (Name)

Związek z jednostką notyfikowaną

Relationship to notified body

2b Przedstawiciel firmy (imię, nazwisko)

Company representative (Name)

Stanowisko

Position

3 Na podstawie przeprowadzonej oceny stwierdzono, że proces produkcyjny jest jednorodny
On the basis of the assessment, it has been concluded the production is homogeneous

☐ Tak
Yes

☐ Nie
No

C Podsumowanie
Conclusion

Uzasadnienie niezgodności
Justification of non-conformities

Nie było żadnych niezgodności / There were no non-conformities.

Wnioski jednostki notyfikowanej
Conclusions of notified body

Środek ochrony osobistej jest kompatybilny z typem określonym w certyfikacie badania typu UE.

Personal protective equipment is compatible with the type defined in the EU type-examination certificate.

Uwagi
Remarks

1. Maska ochronna oceniona zgodnie z procedurą określoną w Zaleceniu Komisji (UE) 2020/403 z dnia 2020-03-13 oraz RFU PPE-R/02.075 wersja 1.
2. Oznakowanie maski ochronnej oraz opakowanie zgodne z RFU PPE-R/02.075 wersja 1, punkt 4.1 i punkt 4.2.

1. The protective mask evaluated in accordance with the Commission Recommendation (EU) 2020/403 dated 2020-03-13 and RfU PPE-R/02.075 version 1.

2. Marking of protective mask and package according to RfU PPE-R/02.075 version 1, point 4.1 and point 4.2.

D Załączniki
Attachments

Sprawozdania z wizyty Nr
Visit reports No. CW/ZO/PPER/103/2020 (zdalnie/remote)

Sprawozdania z badań Nr
Test reports No. Raport z badań nr STFWT202015452 wydany przez Jiangsu Quality Supervision And Inspection Center, w dniu 2020-07-08. Numer akredytacji CNAS L7901.
Test report no. STFWT202015452 issued by Jiangsu Quality Supervision And Inspection Center, dated 2020-07-08. CNAS accreditation number L7901.

Ogólna ocena z rocznego nadzoru
Overall assessment of the annual surveillance

☒ Pozytywna
Positive

☐ Negatywna
Negative

Dyrektor Planu Certyfikacji
Certification Division Director

Michał Chudziński

Michał Chudziński

Gdańsk, 2020-07-10





中国认可
国际互认
检测
TESTING
CNAS L7901

检验检测报告

TEST REPORT



STFWT202015452

产品名称

Product Name

Particle Filtering Half Mask

委托单位

Trust Unit

长兴县志纬服装辅料有限公司

生产单位

Manufacturer

长兴县志纬服装辅料有限公司

检验检测类别

Test Category

委托送样检验



江苏省特种安全防护产品质量监督检验中心

JIANGSU QUALITY SUPERVISION AND INSPECTION CENTER FOR SPECIAL SAFETY PROTECTION PRODUCTS

检 验 检 测 报 告

Test Report

STFWT202015452

共 7 页 第 1 页

Page 1 of 7

产品名称 Product Name	Particle Filtering Half Mask	规格型号 Specification Type	ZW9501 FFP2 NR
		商 标 Trademark	—
委托单位 Trust Unit	长兴县志纬服装辅料有限公司	电 话 Tel	13567238838
生产单位 Manufacturer	长兴县志纬服装辅料有限公司	样品等级 Sample Grade	FFP2
样品数量 Sample Quantity	70 只	送样日期 Sample Receiving Date	2020-06-11
检验检测类别 Test Category	委托送样检验	批号/货号 Batch No./Article No	—
样品状态 Samples Conditions	符合检测要求		
检验检测及判定依据 Document and Decide Accordance	EN 149: 2001+A1: 2009 《Respiratory protective devices -Filtering half masks to protect against particles-Requirements, testing, marking》		
检验检测结论 Test Conclusion	样品经检验, 所检项目符合 EN 149: 2001+A1: 2009 标准规定的 FFP2 级要求。 签发日期: 2020-07-08 Signature/Date		
备 注 Remarks	皮肤相容性项目不在本中心认可范围内, 检测数据仅作参考 客户提供的口罩样品头带为耳挂式 样品为非重复使用设计 (NR), 未要求测试阻隔性能 本报告检验结论仅对所检项目得出, 不代表未经检验的项目或功能符合要求。 本报告仅对来样负责。		

批准:
Approver

钱辉

审核:
Examiner

杨森

主 检:
Major tester

丁欣

检 验 检 测 结 果 Testing Results

STFWT202015452

共 7 页 第 2 页
Page 2 of 7

序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Technical Requirement		检验检测结果 Results			单项评价 Individual Judgment			
1	包装	—	在销售时,面罩的包装能保证在使用前不受机械损伤和污染		符合要求			合格			
2	材料	—	所使用的材料在正常使用寿命中应经的起搬运和磨损 经 8.3.1 模拟佩戴预处理后,罩体与耳带应能承受机械强力 经 8.3.1 模拟佩戴和 8.3.2 温度预处理后半面罩不应受损。 所使用的材料不得经呼吸气流进入人体造成佩戴者人身伤害		S.W	1 ^a	符合要求	合格			
						2 ^a	符合要求				
						3 ^a	符合要求				
		T.C			4 ^a	符合要求					
					5 ^a	符合要求					
					6 ^a	符合要求					
3	清洁和消毒	—	如果设计是可重复使用的,所使用的材料应能承受制造商规定的清洗和消毒程序。 可重复使用产品。经过清洗消毒后,其渗透率满足相关类别的要求。		N/A			—			
4	实用性能	—	能够在真实条件下进行实用性能测试,无任何损坏现象		A.R	7 ^a	符合要求	合格			
						8 ^a	符合要求				
5	接触部位	—	与佩戴者接触的部位应无锋利的边缘或毛刺。		符合要求			合格			
6	过滤材料 穿透率/%	—	盐性 ⑨5L/min)	滤料级别: FFP1: ≤20 FFP2: ≤6 FFP3: ≤1	A.R	19 ^a	1.51	合格			
						20 ^a	1.54				
						21 ^a	1.59				
					S.W	22 ^a	1.63				
						23 ^a	1.67				
						24 ^a	1.74				
					M.S+ T.C	25 ^a	1.81				
						26 ^a	1.97				
						27 ^a	1.93				
			油性 ⑨5L/min)	滤料级别: FFP1: ≤20 FFP2: ≤6 FFP3: ≤1	A.R	28 ^a	5.31				
						29 ^a	5.37				
						30 ^a	5.42				
					S.W	31 ^a	5.49				
						32 ^a	5.67				
						33 ^a	5.54				
					M.S+ T.C	34 ^a	5.73				
						35 ^a	5.89				
						36 ^a	5.84				

检 验 检 测 结 果 Testing Results

STFWT202015452

共 7 页 第 3 页
Page 3 of 7

序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Technical Requirement	检验检测结果 Results		单项评价 Individual Judgment
7	皮肤相容性	—	与佩戴者皮肤接触的材料不应存在刺激性以及对人体健康有影响的其他因素	A.R	9 [#] 符合要求	合 格
					10 [#] 符合要求	
					11 [#] 符合要求	
					12 [#] 符合要求	
					13 [#] 符合要求	
				T.C	14 [#] 符合要求	
					15 [#] 符合要求	
					16 [#] 符合要求	
					17 [#] 符合要求	
8	阻燃性能	s	暴露于火焰的各部件从火焰移开后,不应燃烧;如果燃烧,续燃时间不得超过 5。	A.R	37 [#] 0.5	合 格
					38 [#] 0.4	
				T.C	39 [#] 1.1	
					40 [#] 0.9	
9	死腔/%	—	≤1.0%	A.R	41 [#] 0.52	合 格
					42 [#] 0.54	
					43 [#] 0.56	
					平均值 0.54	
10	视野	—	经 8.4 实用性能测试过程中,视野范围应可以被接受	A.R	7 [#] 符合要求	合 格
					8 [#] 符合要求	
11	头带	—	头带设计应便于佩戴和摘除;头带应该是可调节或自动调整的,能将面罩牢固地固定在脸上,并且能够确保面罩满足泄漏性测试要求	A.R	9 [#] 符合要求	合 格
					10 [#] 符合要求	
					11 [#] 符合要求	
					12 [#] 符合要求	
					13 [#] 符合要求	
				T.C	14 [#] 符合要求	
					15 [#] 符合要求	
					16 [#] 符合要求	
					17 [#] 符合要求	
12	可拆卸部件	—	所有可拆卸部件(如有)应在可能的情况下,可用手方便地连接和固定。	N/A		—

检 验 检 测 结 果 Testing Results

STFWT202015452

共 7 页 第 4 页
Page 4 of 7

序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Technical Requirement	检验检测结果 Results	单项评价 Individual Judgment
13	阻 塞 性 能	呼吸阻力 (带阀)	带呼气阀的口罩经阻塞性能 (95 L/min) 测试后, 吸入阻力不得 超过: FFP1: 4 mbar FFP2: 5 mbar FFP3: 7 mbar 连续流在 160L/min 时, 呼气阻力 不应超过 3mbar。	N/A	—
			级别 盐性 (95L/min) 油性 (95L/min)		
			FFP1 ≤20% ≤20% FFP2 ≤6% ≤6% FFP3 ≤1% ≤1%		
		呼吸阻力 (无阀)	无呼气阀的口罩经阻塞性能 (95 L/min) 测试后, 吸气和呼气 阻力不应超过: FFP1: 3 mbar FFP2: 4 mbar FFP3: 5mbar		
			级别 盐性 (95L/min) 油性 (95L/min)		
			FFP1 ≤20% ≤20% FFP2 ≤6% ≤6% FFP3 ≤1% ≤1%		
14	呼气阀	—	口罩可以有一个或多个呼出阀, 这 些呼出阀应在所有方向上正确工 作测试应按照 8.2 和 8.9.1 的要 求进行。呼出阀, 应具有防护或耐 污物和机械损伤的能力, 并可进行 遮蔽, 或可包括任何其他装置, 以 符合 7.9 的要求。呼出阀, 在 30 秒内连续呼出流量为 300 l/min 后 应继续正常工作。当呼出阀有阀 盖时, 应该能够承受轴向的拉力 10N 的轴向拉力。	N/A	—

检 验 检 测 结 果 Testing Results

STFWT202015452

共 7 页 第 5 页
Page 5 of 7

序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Technical Requirement			检验检测结果 Results				单项评价 Individual Judgment				
15	呼吸阻力 (无阀) (mbar)	—	级别	吸气 (mbar)		呼气 (mbar)	A.R (无阀)				合格			
				30 L/min	95 L/min	160 L/min	41 [#]	A	0.4	1.3		1.9		
								B	0.4	1.3		1.9		
								C	0.4	1.3		2.0		
								D	0.4	1.4		1.9		
			E	0.4	1.3	1.9								
			42 [#]	A	0.4	1.3	1.9							
				B	0.4	1.4	2.0							
				C	0.4	1.3	1.9							
				D	0.4	1.3	1.9							
				E	0.4	1.3	1.9							
			43 [#]	A	0.4	1.3	1.9							
				B	0.4	1.3	1.9							
				C	0.4	1.3	1.9							
				D	0.4	1.4	1.9							
				E	0.4	1.3	2.0							
			S.W (无阀)				44 [#]	A	0.4	1.3		1.9		
			45 [#]	B	0.4	1.4		2.0						
				C	0.4	1.3		1.9						
				D	0.4	1.3		1.9						
				E	0.4	1.3		1.9						
			46 [#]	A	0.4	1.3	1.9							
				B	0.4	1.3	1.9							
				C	0.4	1.3	1.9							
				D	0.4	1.4	2.0							
				E	0.4	1.3	1.9							
			T.C (无阀)				47 [#]	A	0.4	1.3		1.9		
			48 [#]	B	0.4	1.3		1.9						
				C	0.4	1.4		2.0						
				D	0.4	1.3		1.9						
				E	0.4	1.3		1.9						
			49 [#]	A	0.4	1.3	1.9							
				B	0.4	1.3	1.9							
				C	0.4	1.4	2.0							
				D	0.4	1.3	1.9							
				E	0.4	1.3	1.9							
			FFP1	≤0.6	≤2.1	≤3.0	41 [#]	A	0.4	1.3		1.9		
			FFP2	≤0.7	≤2.4	≤3.0		B	0.4	1.3		1.9		
			FFP3	≤1.0	≤3.0	≤3.0		C	0.4	1.3		2.0		
								D	0.4	1.4		1.9		
								E	0.4	1.3		1.9		
									A	0.4		1.3	1.9	
									B	0.4		1.4	2.0	
									C	0.4		1.3	1.9	
									D	0.4		1.3	1.9	
									E	0.4		1.3	1.9	
										A		0.4	1.3	1.9
										B		0.4	1.4	2.0
							C	0.4	1.3	1.9				
							D	0.4	1.3	1.9				
							E	0.4	1.3	1.9				
								A	0.4	1.3	1.9			
								B	0.4	1.4	2.0			
								C	0.4	1.3	1.9			
								D	0.4	1.3	1.9			
								E	0.4	1.3	1.9			
									A	0.4	1.3	1.9		
									B	0.4	1.4	2.0		
									C	0.4	1.3	1.9		
									D	0.4	1.3	1.9		
									E	0.4	1.3	1.9		
										A	0.4	1.3	1.9	
										B	0.4	1.4	2.0	
										C	0.4	1.3	1.9	
										D	0.4	1.3	1.9	
										E	0.4	1.3	1.9	
											A	0.4	1.3	1.9
											B	0.4	1.4	2.0
											C	0.4	1.3	1.9
											D	0.4	1.3	1.9
											E	0.4	1.3	1.9

合 格

检 验 检 测 结 果

Testing Results

STFWT202015452

共 7 页 第 6 页

Page 6 of 7

序号 Serial	检验检测项目 Test Items	单位 Unit	技术要求 Requirement			检验检测结果 Results							单项评价 Individual Judgment	
16	呼吸阻力 (有阀)	—	级别	吸气 (mbar)		呼气 (mbar)	N/A							—
				30 L/min	95 L/min	160 L/min								
			FFP1	≤0.6	≤2.1	≤3.0	A:面向正前方 B:面垂直向上 C:面垂直向下 D:面朝左侧 E:面朝右侧							
			FFP2	≤0.7	≤2.4	≤3.0								
			FFP3	≤1.0	≤3.0	≤3.0								
17	总泄漏率 TIL/%	—	每个动作的 TIL 为评价基础时 (即 10 人×5 个动作), 50 个动作中至少有 46 个动作的 TIL。 滤料级别: FFP1: ≤25 FFP2: ≤11 FFP3: ≤5 以人的总体 TIL 为评价基础时, 10 个受试者中至少有 8 个人的总体 TIL。 滤料级别: FFP1: ≤22 FFP2: ≤8 FFP3: ≤2			A · R	样品号	行走	左右	上下	说话	行走	总体 TIL	合格
							9 [#]	5.6	9.4	9.3	9.5	5.7	7.9	
							10 [#]	7.8	8.5	4.5	8.6	4.6	6.8	
							11 [#]	5.5	9.1	5.9	9.3	9.6	7.9	
							12 [#]	11.9	12.0	11.8	8.2	7.9	10.4	
						T · C	13 [#]	5.2	8.7	5.1	8.8	8.7	7.3	
							14 [#]	8.8	4.8	8.3	5.0	9.0	7.2	
							15 [#]	5.5	9.4	5.7	9.0	9.1	7.7	
							16 [#]	5.6	9.1	9.3	9.2	5.6	7.7	
							17 [#]	8.8	9.2	9.1	5.1	4.9	7.4	
							18 [#]	5.2	9.2	5.4	8.9	9.1	7.6	
							50 个动作中, 有 47 个动作的 TIL 小于 11%。 10 个试验者中, 有 9 个人的 TIL 小于 8%。							

注 意 事 项

- 1、检验检测报告无“检验检测报告专用章”或检验检测单位公章无效。
- 2、复制检验检测报告未重新加盖检验检测报告专用章无效。
- 3、检验检测报告无主检、审核、批准人签字无效。
- 4、检验检测报告涂改无效。

Points For Attention

1. This Report Is Invalid If Without “The Test Report Special Seal” Or The Official Seal Of The Institute.
2. The Reproduction Is Invalid If Without Being Confirmed By The Test Report Special Seal.
3. This Report Is Invalid If Without Signature Of The Major Tester And The Examiner And The Approver.
4. This Report Is Invalid If In Any Form By Any Means Altered.

地址：江苏省泰州市高港区临港经济园临港大道 166 号

Add: Lingang Road 166, Lingang Economic Park, Gaogang, Taizhou, Jiangsu

电话 (Tel): 0523-86989959

0523-86989939

邮编 (Post): 225300

网址 (Web): www.jstfzx.com

邮箱 (E-mail): 1735889887@qq.com

监督电话 (Complain Tel): 0523-86989901



中国认可
国际互认
检测
TESTING
CNAS L7901

检验检测报告

TEST REPORT



STFWT202015452

Product Name Particle Filtering Half Mask

Trust Unit Changxing Zhiwei Clothing Materials Co.,Ltd.

Manufacturer Changxing Zhiwei Clothing Materials Co.,Ltd.

Test Category Entrusted Inspection



江苏省特种安全防护产品质量监督检验中心
JIANGSU QUALITY SUPERVISION AND INSPECTION CENTER FOR SPECIAL SAFETY PROTECTION PRODUCTS

Test Report

STFWT202015452

page 1 of 12

Product Name	Particle Filtering Half Mask	Specification Type	ZW9501 FFP2 NR
		Trademark	—
Trust Unit	Changxing Zhiwei Clothing Materials Co.,Ltd.	Tel.	13567238838
Manufacturer	Changxing Zhiwei Clothing Materials Co.,Ltd.	Sample Grade	FFP2
Sample Quantity	70 pcs	Sample Receiving Date	2020-06-11
Test Category	Entrusted inspection	Batch No./Article No	—
Samples Conditions	Meet the testing requirements		
Document and Decide Accordance	EN 149: 2001+A1: 2009 《Respiratory protective devices -Filtering half masks to protect against particles-Requirements, testing, marking》		
Test Conclusion	The samples were tested, the items tested meet the requirements of EN 149:2001+A1:2009 standard for FFP2 level. Signature Date: 2020-07-08		
Remarks	The head harness of the mask provided by the applicant is ear hanging. Compatibility with skin is not recognized by the center. The test data are only for reference. The sample is not marked for reuse (NR) and does not require testing for blocking performance. The test conclusion of this report is only for the items inspected and does not mean that the uninspected items or functions meet the requirements. The results apply to the sample as received.		

Approver

钱辉

Examiner

杨森

Major tester

丁欣



JIANGSU QUALITY SUPERVISION AND INSPECTION CENTER FOR SPECIAL SAFETY PROTECTION PRODUCTS.

7.3 Visual inspection**N/R**

The visual inspection shall include the marking and information supplied by the manufacturer.

7.4 Package**Pass**

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.

7.5 Material**Pass¹**

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.

Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.

After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the face piece or straps.

When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.

Note1: Refer to Annex A for test data.

7.6 Cleaning and disinfecting**N/A²**

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.

Note2: Non-reusable respirator.

7.7 Practical performance**Pass³**

The particle filtering half mask shall undergo practical performance tests under realistic conditions.

Note3: Refer to Annex A for test data.

7.8 Finish of parts**Pass**

Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.



7.9.1 Total inward leakage**Pass⁴**

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 × 5 exercises) for total inward leakage shall be not greater than:

25% for FFP1, 11% for FFP2, 5% for FFP3.

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.

Note4: Refer to Annex A for test data.

Subject facial dimensions:				
Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
YS	115	159	115	48
ZJ	118	165	118	51
WL	117	157	113	49
LQM	98	141	101	53
ZYS	99	147	107	47
WP	119	169	120	55
YYW	112	151	115	56
CYW	105	148	108	51
DX	113	162	116	57
DHJ	103	149	105	56

7.9.2 Penetration of filter material**Pass⁵**

The penetration of the filter of the particle filtering half mask shall meet the requirements of the table.

	Sodium chloride test 95	Paraffin oil test 95 l/min
FFP1	≤20%	≤20%
FFP2	≤6%	≤6%
FFP3	≤1%	≤1%

This report may not be published except in full unless permission for the publication of an approved extract has been obtained in writing.

Note5: Refer to Annex A for test data.

7.10 Compatibility with skin**Pass⁶**

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.

Note6: Refer to Annex A for test data.



7.11 Flammability**Pass⁷**

When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5s after removal from the flame.

Note7: Refer to Annex A for test data.

7.12 Carbon dioxide content of the inhalation air**Pass⁸**

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0 % (by volume).

Note8: Refer to Annex A for test data.

7.13 Head harness**Pass⁹**

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.

Note9: Refer to Annex A for test data.

7.14 Field of vision**Pass¹⁰**

The field of vision is acceptable if determined so in practical performance tests.

Note10: Refer to Annex A for test data.

7.15 Exhalation valve**N/A¹¹**

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 faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.

Note11: Valve-less respirator.

7.16 Breathing resistance**Pass¹²**

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	1.0	3.0	3.0

Note12: Refer to Annex A for test data.



7.17 CloggingN/A¹³**7.17.2 Breathing resistance**N/A¹³

Valved particle filtering half masks:

After clogging the inhalation resistances shall not exceed:

FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar at 95 L/min continuous flow

The exhalation resistance shall not exceed 3 mbar at 160 L/min continuous flow

Valveless particle filtering half masks

After clogging the inhalation and exhalation resistances shall not exceed:

FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar at 95 L/min continuous flow

7.17.3 Penetration of filter materialN/A¹³

Classification	Sodium chloride test 95L/min	Paraffin oil test 95 L/min
FFP1	≤20%	≤20%
FFP2	≤6%	≤6%
FFP3	≤1%	≤1%

Note13: Non-reusable respirator.

7.18 Demountable partsN/A¹⁴

All demountable parts (if fitted) shall be readily connected and secured, where possible by hand

Note14: No demountable parts.

9 Marking

N/R

9.1 Packaging

The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.

9.1.1 The name, trademark or other means of identification of the manufacturer or supplier.

9.1.2 Type-identifying marking.

9.1.3 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.

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



9.1.5 At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in Figure 12a, where yyyy/mm indicates the year and month.

9.1.6 The sentence 'see information supplied by the manufacturer', at least in the official language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.

9.1.7 The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d

9.1.8 The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D". This letter shall follow the classification marking preceded by a single space.

9.2 Particle filtering half mask

Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:

9.2.1 The name, trademark or other means of identification of the manufacturer or supplier.

This report may not be published except in full unless permission for the publication of an approved extract has been obtained in writing.

9.2.2 Type-identifying marking.

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.

10 Information to be supplied by the manufacturer

N/R

10.1 Information supplied by the manufacturer shall accompany every smallest commercial available package.

10.2 Information supplied by the manufacturer shall be at least in the official language(s) of the country of destination.



10.3 The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on

- application/limitations;
- the meaning of any colour coding;
- checks prior to use;
- donning, fitting;
- use;
- maintenance (e.g. cleaning, disinfecting), if applicable;
- storage;
- the meaning of any symbols/pictograms used of the equipment.

10.4 The information shall be clear and comprehensible. If helpful, illustrations, part numbers, marking shall be added.

10.5 Warning shall be given against problems likely to be encountered, for example:

- fit of particle filtering half mask (check prior to use);
- it is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal;
- air quality (contaminants, oxygen deficiency);
- use of equipment in explosive atmosphere.

10.6 The information shall provide recommendations as to when the particle filtering half mask shall be discarded.

10.7 For devices marked "NR", a warning shall be given that the particle filtering half mask shall not be used for more than one shift.



Annex A: Summarization of Test Data

Clause		Result								Assessment	
7.5	Material	Simulated wearing treatment	1*	No mechanical failure						Pass	
			2*	No mechanical failure							
			3*	No mechanical failure							
		Temperature conditioned	4*	No mechanical failure							
			5*	No mechanical failure							
			6*	No mechanical failure							
7.9	Practical performance	As received	7*	No mechanical failure						Pass	
			8*	No mechanical failure							
7.9.1	Total inward leakage (%)		Sample No	Walk	Head (side/side)	Head (up/down)	Talk	Walk	Mean	Pass	
		As received	9*	5.6	9.4	9.3	9.5	5.7	7.9		
			10*	7.8	8.5	4.5	8.6	4.6	6.8		
			11*	5.5	9.1	5.9	9.3	9.6	7.9		
			12*	11.9	12.0	11.8	8.2	7.9	10.4		
			13*	5.2	8.7	5.1	8.8	8.7	7.3		
		Temperature conditioned	14*	8.8	4.8	8.3	5.0	9.0	7.2		
			15*	5.5	9.4	5.7	9.0	9.1	7.7		
			16*	5.6	9.1	9.3	9.2	5.6	7.7		
			17*	8.8	9.2	9.1	5.1	4.9	7.4		
			18*	5.2	9.2	5.4	8.9	9.1	7.6		
			Individual exercise result : 47 out of the 50 individual exercise results ≤ 11 Individual wearer arithmetic means : 9 individual wearer arithmetic means≤ 8								



Clause		Result			Assessment
7.9.2	Penetration of filter material/%	Sodium chloride test(95L/min)			Pass
		As received	19 ^o	1.51	
			20 ^o	1.54	
			21 ^o	1.59	
		Simulated wearing treatment	22 ^o	1.63	
			23 ^o	1.67	
			24 ^o	1.74	
		M.S.+T.C.	25 ^o	1.81	
			26 ^o	1.97	
			27 ^o	1.93	
		Paraffin oil test(95L/min)			
		As received	28 ^o	5.31	
			29 ^o	5.37	
			30 ^o	5.42	
		Simulated wearing treatment	31 ^o	5.49	
			32 ^o	5.67	
33 ^o	5.54				
M.S.+T.C.	34 ^o	5.73			
	35 ^o	5.89			
	36 ^o	5.84			
7.10	Compatibility with skin	As received	9 ^o	No irritation or any other adverse effect to health	Pass
			10 ^o	No irritation or any other adverse effect to health	
			11 ^o	No irritation or any other adverse effect to health	
			12 ^o	No irritation or any other adverse effect to health	
			13 ^o	No irritation or any other adverse effect to health	
		Temperature conditioned	14 ^o	No irritation or any other adverse effect to health	
			15 ^o	No irritation or any other adverse effect to health	
			16 ^o	No irritation or any other adverse effect to health	
			17 ^o	No irritation or any other adverse effect to health	
			18 ^o	No irritation or any other adverse effect to health	
7.11	Flammability	As received	37 ^o	burn for 0.5 s	Pass
			38 ^o	burn for 0.4 s	
		Temperature conditioned	39 ^o	burn for 1.1 s	
			40 ^o	burn for 0.9 s	



Clause		Result				Assessment
7.12	Carbon dioxide content of the inhalation air/%	As received				Pass
		41 ^a	42 ^a	43 ^a	Mean value	
		0.52	0.54	0.56	0.54	
7.13	Head hardness	As received				Pass
		9 ^a	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		10 ^a	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		11 ^a	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		12 ^a	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		13 ^a	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		Temperature conditioned				
		14 ^a	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		15 ^a	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		16 ^a	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		17 ^a	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		18 ^a	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
7.14	Field of vision	As received	7 ^a	Passed the practical performance tests		Pass
			8 ^a	Passed the practical performance tests		



Clause		Result				Assessment
7.16	Breathing resistance (mbar)			Inhalation		Exhalation
				30 l/min	95 l/min	160 l/min
		As received				
		41 ^a	A	0.4	1.3	1.9
			B	0.4	1.3	1.9
			C	0.4	1.3	2.0
			D	0.4	1.4	1.9
			E	0.4	1.3	1.9
		42 ^a	A	0.4	1.3	1.9
			B	0.4	1.4	2.0
			C	0.4	1.3	1.9
			D	0.4	1.3	1.9
			E	0.4	1.3	1.9
		43 ^a	A	0.4	1.3	1.9
			B	0.4	1.3	1.9
			C	0.4	1.3	1.9
			D	0.4	1.4	1.9
			E	0.4	1.3	2.0
		Simulated wearing treatment				
		44 ^a	A	0.4	1.3	1.9
			B	0.4	1.4	2.0
			C	0.4	1.3	1.9
			D	0.4	1.3	1.9
			E	0.4	1.3	1.9
		45 ^a	A	0.4	1.3	1.9
			B	0.4	1.3	1.9
			C	0.4	1.3	1.9
			D	0.4	1.4	2.0
			E	0.4	1.3	1.9
		46 ^a	A	0.4	1.3	1.9
			B	0.4	1.4	1.9
			C	0.4	1.3	2.0
			D	0.4	1.3	1.9
			E	0.4	1.3	1.9



Clause		Result				Assessment	
7.16	Breathing resistance		Inhalation		Exhalation	Pass	
			30 l/min	95 l/min	160 l/min		
		Temperature conditioned					
		47°	A	0.4	1.3		1.9
			B	0.4	1.3		1.9
			C	0.4	1.4		2.0
			D	0.4	1.3		1.9
			E	0.4	1.3		1.9
		48°	A	0.4	1.3		1.9
			B	0.4	1.3		1.9
			C	0.4	1.3		1.9
			D	0.4	1.3		2.0
			E	0.4	1.4		1.9
		49°	A	0.4	1.3		1.9
			B	0.4	1.4		1.9
			C	0.4	1.3		2.0
			D	0.4	1.3		1.9
			E	0.4	1.3		1.9
7.16	Breathing resistance	A: facing directly ahead B: facing vertically upwards C: facing vertically downwards D: lying on the left side E: lying on the right side					
Remarks : M.S.: Mechanical strength; T.C.: Temperature conditioning; N/R: The clauses were not requested; N/A: Not applicable;							

Original Sample



***** End of Report *****



注 意 事 项

- 1、检验检测报告无“检验检测报告专用章”或检验检测单位公章无效。
- 2、复制检验检测报告未重新加盖检验检测报告专用章无效。
- 3、检验检测报告无主检、审核、批准人签字无效。
- 4、检验检测报告涂改无效。

Points For Attention

1. This Report Is Invalid If Without “The Test Report Special Seal” Or The Official Seal Of The Institute.
2. The Reproduction Is Invalid If Without Being Confirmed By The Test Report Special Seal.
3. This Report Is Invalid If Without Signature Of The Major Tester And The Examiner And The Approver.
4. This Report Is Invalid If In Any Form By Any Means Altered.

地址：江苏省泰州市高港区临港经济园临港大道 166 号

Add: Lingang Road 166, Lingang Economic Park , Gaogang, Taizhou.Jiangsu

电话 (Tel): 0523-86989959

0523-86989939

邮编 (Post): 225300

网址 (Web): www.jstfzx.com

邮箱 (E-mail): 1735889887@qq.com

监督电话 (Complain Tel): 0523-86989901