

# Kaze Protective Respirator

## Original

## Certificate and test reports

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## Sodium Chloride (NaCl) Aerosol Test Final Report

Test Article: KAZE Protective Respirator  
Study Number: 1306452-S01  
Study Received Date: 03 Jun 2020  
Testing Facility: Nelson Laboratories, LLC  
6280 S. Redwood Rd.  
Salt Lake City, UT 84123 U.S.A.  
Test Procedure(s): Standard Test Protocol (STP) Number: STP0014 Rev 09  
Deviation(s): None

**Summary:** This procedure was performed to evaluate particulate filter penetration as specified in 42 CFR Part 84 and TEB-APR-STP-0059 for requirements on a N95 respirator. Respirators were conditioned then tested for particle penetration against a polydispersed, sodium chloride (NaCl) particulate aerosol. The challenge aerosol was dried, neutralized, and passed through the test article at a concentration not exceeding 200 mg/m<sup>3</sup>. The initial airflow resistance and particle penetration for each respirator was determined.

According to 42 CFR Part 84.64, pretesting must be performed by all applicants as part of the application process with NIOSH. Results seen below are part of that pretesting and must be submitted to and accepted by NIOSH for respirator approval.

All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.



Robert Dieker electronically approved for  
Study Director

Curtis Gerow

17 Jul 2020 17:58 (+00:00)  
Study Completion Date and Time

**Results:** The NIOSH N95 filter efficiency as stated in 42 CFR Part 84.181 is a minimum efficiency for each filter of  $\geq 95\%$  ( $\leq 5\%$  penetration). The test articles submitted by the sponsor conform to the NIOSH N95 criteria for filter efficiency.

Test Article Number	Corrected <sup>a</sup> Initial Airflow Resistance (mm H <sub>2</sub> O)	Maximum Particle Penetration (%)	Filtration Efficiency (%)
1	14.5	0.790	99.210
2	15.0	1.00	99.00
3	15.7	0.825	99.175
4	15.8	0.888	99.112
5	15.4	0.775	99.225
6	15.4	0.461	99.539
7	16.0	0.724	99.276
8	15.8	1.03	98.97
9	17.7	0.936	99.064
10	17.7	0.868	99.132
11	17.6	0.677	99.323
12	18.7	0.935	99.065
13	16.8	0.628	99.372
14	16.0	0.719	99.281
15	16.0	0.629	99.371
16	14.7	1.14	98.86
17	16.1	0.742	99.258
18	15.9	0.761	99.239
19	14.8	0.701	99.299
20	14.9	0.887	99.113

<sup>a</sup> The final airflow resistance value for each test article was determined by subtracting out the background resistance from the system.

**Test Method Acceptance Criteria:** The filter tester must pass the “Tester Set Up” procedure. The airflow resistance and particle penetration of the reference material must be within the limits set by the manufacturer.

**Filter Test Procedure:** Prior to testing, respirators were taken out of their packaging and placed in an environment of  $85 \pm 5\%$  relative humidity (RH) and  $38 \pm 2.5^\circ\text{C}$  for  $25 \pm 1$  hours.

The filter tester used in testing was a TSI® CERTITEST® Model 8130 Automated Filter Tester that is capable of efficiency measurements of up to 99.999%. It produces a particle size distribution with a count median diameter of  $0.075 \pm 0.020$  microns ( $\mu\text{m}$ ) and a geometric standard deviation not exceeding 1.86  $\mu\text{m}$ . The mass median diameter was approximately 0.26  $\mu\text{m}$ , which is generally accepted as the most penetrating aerosol size. The reservoir was filled with a 2% NaCl solution and the instrument allowed a minimum warm-up time of 30 minutes. The main regulator pressure was set to  $75 \pm 5$  pounds per square inch (psi). The filter holder regulator pressure was set to approximately 35 psi. The NaCl aerosol generator pressure was set to approximately 30 psi and the make-up airflow rate was set to approximately 70 liters per minute (L/min).

The NaCl concentration of the test aerosol was determined in  $\text{mg}/\text{m}^3$  by a gravimetric method prior to the load test assessment. An entire respirator was mounted on a test fixture, placed into the filter holder, and the NaCl aerosol passed through the outside surface of the test article at a continuous airflow rate of  $85 \pm 4$  L/min. In accordance with NIOSH policy, three respirators were challenged until  $200 \pm 5$  mg of NaCl had contacted each test article. Based upon the load pattern of NIOSH Type 1, the initial penetration reading of the remaining 17 respirators was recorded.

## Determination of Inhalation and Exhalation Resistance for Air-Purifying Respirators Final Report

Test Article: KAZE Protective Respirator  
Study Number: 1306453-S01  
Study Received Date: 03 Jun 2020  
Testing Facility: Nelson Laboratories, LLC  
6280 S. Redwood Rd.  
Salt Lake City, UT 84123 U.S.A.  
Test Procedure(s): Standard Test Protocol (STP) Number: STP0145 Rev 05  
Deviation(s): None

**Summary:** This procedure was performed to evaluate the differential pressure of non-powered air-purifying particulate respirators in accordance with 42 CFR Part 84.180. The air exchange differential or breathability of respirators was measured for inhalation resistance using NIOSH procedure TEB-APR-STP-0007 and exhalation resistance with NIOSH procedure TEB-APR-STP-0003. The differential pressure technique is a simple application of a basic physical principle employing a water manometer differential upstream and downstream of the test material, at a constant flow rate.

According to 42 CFR Part 84.64, pretesting must be performed by all applicants as part of the application process with NIOSH. Results seen below are part of that pretesting and must be submitted to and accepted by NIOSH for respirator approval.

The inhalation resistance criteria as stated in 42 CFR Part 84.180 is an initial inhalation not exceeding 35 mm water column height pressure. The test articles submitted by the sponsor conform to this NIOSH criterion for airflow resistance.

The exhalation resistance criteria as stated in 42 CFR Part 84.180 is an initial exhalation not exceeding 25 mm water column height pressure. The test articles submitted by the sponsor conform to this NIOSH criterion for airflow resistance.

All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.



Sean Shepherd electronically approved for  
Study Director

Curtis Gerow

30 Jun 2020 18:54 (+00:00)  
Study Completion Date and Time

**Results:**

Test Article Number	Inhalation Resistance (mm H <sub>2</sub> O)	Exhalation Resistance (mm H <sub>2</sub> O)
1	11.5	10.2
2	10.3	10.3
3	10.3	10.3

**Test Method Acceptance Criteria:** The resistance measurement for the reference plate must be within  $\pm 3$  standard deviations of the mean established in the control chart.

**Procedure:** A complete respirator was mounted to a test fixture comprised of a metal plate with an approximate 3.5 inch diameter hole in the center to allow airflow to reach the mask. The sample holder was assembled by placing a Plexiglas collar around the test fixture and topping with another metal disc with a 3.5 inch opening in the center. The sample holder is held tightly together with clamps and connected to an air source. The manometer is attached to the sample holder by a connection port on the Plexiglas collar.

Before testing, the manometer was zeroed and the back pressure in the sample holder checked and verified to be acceptable. Resistance measurements were taken with a manometer capable of measuring at least 6 inches of water. For inhalation testing, a negative airflow (vacuum) was applied. For exhalation testing, a positive airflow (compressed air) was used. Airflow was passed through the sample holder at approximately  $85 \pm 2$  liters per minute (L/min).

HUIZHOU BOWEN MANUFACTURING LIMITED  
 XINNAN 1ST ROAD, XIANAN VILLAGE, YUANZHOU TOWN, BOLUO COUNTY, HUIZHOU CITY,  
 GUANGDONG PROVINCE, P.R. CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : COLOR NON-WOVEN FABRIC 16%; MELT BLOWN FABRIC 22%; HOT AIR COTTON 12%; SKIN FRIENDLY NON-WOVEN FABRIC 10%; EAR THREAD 25%, NOSE CLIP 15%

PROTECTIVE RESPIRATOR IN  
 (A) ROYAL BLUE  
 (B) FOREST PINE  
 (C) POWER BLUE  
 (D) CITRUS ORANGE  
 (E) SWEET PEA  
 (F) ULTRA-VIOLET  
 (G) SANDY BEIGE  
 (H) MAROON  
 (I) FUCHSIA  
 (J) RACING RED  
 (K) ROSE QUARTZ  
 (L) DOVE GREY  
 (M) ESPRESSO  
 (N) SILVER GREY  
 (O) CHAMPAGNE  
 (P) LIGHT BLUSH  
 (Q) NATURAL SAND  
 (R) WHITE

Sample Color : (A) royal blue; (B) forest pine; (C) power blue; (D) citrus orange; (E) sweet pea; (F) ultra-violet; (G) sandy beige; (H) maroon; (I) fuchsia; (J) racing red; (K) rose quartz; (L) dove grey; (M) espresso; (N) silver grey; (O) champagne; (P) light blush; (Q) natural sand; (R) white

Composition : COLOR NON-WOVEN FABRIC 16%; MELT BLOWN FABRIC 22%; HOT AIR COTTON 12%; SKIN FRIENDLY NON-WOVEN FABRIC 10%; EAR THREAD 25%, NOSE CLIP 15%

Style No. : KAZE-05

Manufacturer : HUIZHOU BOWEN MANUFACTURING LIMITED

Country of Destination : United States, Europe

Sample Receiving Date : Mar 02, 2021

Testing Period : Mar 02, 2021 - Mar 08, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant



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Conclusion	A	B	C	D	Remark
Pentachlorophenol (PCP)	PASS	PASS	PASS	PASS	
Azo Dyes	PASS	PASS	PASS	PASS	
Total Cadmium (Cd)	PASS	-	-	-	
Nonylphenol Ethoxylates(NPEOs)	PASS	PASS	PASS	PASS	
Organotin Compounds	PASS	PASS	PASS	PASS	
Polycyclic Aromatic Hydrocarbons (PAHs)	PASS	-	-	-	
Short Chain Chlorinated Paraffins (SCCP)	PASS	-	-	-	
Phthalates	PASS	-	-	-	

Conclusion	E	F	G	H	Remark
Pentachlorophenol (PCP)	PASS	PASS	PASS	PASS	
Azo Dyes	PASS	PASS	PASS	PASS	
Nonylphenol Ethoxylates(NPEOs)	PASS	PASS	PASS	PASS	
Organotin Compounds	PASS	PASS	PASS	PASS	

Conclusion	I	J	K	L	Remark
Pentachlorophenol (PCP)	PASS	PASS	PASS	PASS	
Azo Dyes	PASS	PASS	PASS	PASS	
Nonylphenol Ethoxylates(NPEOs)	PASS	PASS	PASS	PASS	
Organotin Compounds	PASS	PASS	PASS	PASS	

Conclusion	M	N	O	P	Remark
Pentachlorophenol (PCP)	PASS	PASS	PASS	PASS	
Azo Dyes	PASS	PASS	PASS	PASS	
Nonylphenol Ethoxylates(NPEOs)	PASS	PASS	PASS	PASS	
Organotin Compounds	PASS	PASS	PASS	PASS	

Conclusion	Q	R	Remark
Pentachlorophenol (PCP)	PASS	PASS	
Azo Dyes	PASS	-	
Nonylphenol Ethoxylates(NPEOs)	PASS	PASS	
Organotin Compounds	PASS	PASS	

Remark(s) : PASS=Meet Client's Requirement

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Lily Wang (Account Manager)



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**COMPONENT LIST / List of Materials**

Sample No.	Component No.	Description	Material	Color	Remark
A	1	Flat band	Synthetic Fibers	Royal blue	
A	2	Outer non-woven fabric with logo	Synthetic Fibers	Royal blue	
D	3	Flat band	Synthetic Fibers	Citrus orange	
D	4	Outer non-woven fabric with logo	Synthetic Fibers	Citrus orange	
A	5	Inner layer non-woven fabric	Synthetic Fibers	White	B--R material type same as A
A	6	Hot air cotton	Blended Fibers	White	B--R material type same as A
A	7	Melt-blown material	Synthetic Fibers	White	B--R material type same as A
A	8	Foam with adhesive backing	Foam	Dark grey	B--R material type same as A
A	9	Nose clip	Plastics	White	B--R material type same as A
A	10	Adjustable beads	Plastics	White	B--R material type same as A
B	11	Flat band	Synthetic Fibers	Forest pine	
B	12	Outer non-woven fabric with logo	Synthetic Fibers	Forest pine	
C	13	Flat band	Synthetic Fibers	Power blue	
C	14	Outer non-woven fabric with logo	Synthetic Fibers	Power blue	
E	15	Flat band	Synthetic Fibers	Sweet pea	
E	16	Outer non-woven fabric with logo	Synthetic Fibers	Sweet pea	
F	17	Flat band	Synthetic Fibers	Ultra-violet	
F	18	Outer non-woven fabric with logo	Synthetic Fibers	Ultra-violet	
G	19	Flat band	Synthetic Fibers	Sandy beige	
G	20	Outer non-woven fabric with logo	Synthetic Fibers	Sandy beige	
H	21	Flat band	Synthetic Fibers	Maroon	
H	22	Outer non-woven fabric with logo	Synthetic Fibers	Maroon	
I	23	Flat band	Synthetic Fibers	Fuchsia	
I	24	Outer non-woven fabric with logo	Synthetic Fibers	Fuchsia	
J	25	Flat band	Synthetic Fibers	Racing red	
J	26	Outer non-woven fabric with logo	Synthetic Fibers	Racing red	
K	27	Flat band	Synthetic Fibers	Rose quartz	
K	28	Outer non-woven fabric with logo	Synthetic Fibers	Rose quartz	
L	29	Flat band	Synthetic Fibers	Dove grey	
L	30	Outer non-woven fabric with logo	Synthetic Fibers	Dove grey	
M	31	Flat band	Synthetic Fibers	Espresso	
M	32	Outer non-woven fabric with logo	Synthetic Fibers	Espresso	
N	33	Flat band	Synthetic Fibers	Silver grey	
N	34	Outer non-woven fabric with logo	Synthetic Fibers	Silver grey	
O	35	Flat band	Synthetic Fibers	Champagne	



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**COMPONENT LIST / List of Materials**

Sample No.	Component No.	Description	Material	Color	Remark
O	36	Outer non-woven fabric with logo	Synthetic Fibers	Champagne	
P	37	Flat band	Synthetic Fibers	Light blush	
P	38	Outer non-woven fabric with logo	Synthetic Fibers	Light blush	
Q	39	Flat band	Synthetic Fibers	Natural sand	
Q	40	Outer non-woven fabric with logo	Synthetic Fibers	Natural sand	
R	41	Flat band	Synthetic Fibers	White	
R	42	Outer non-woven fabric with logo	Synthetic Fibers	White	



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Test Result

**European Regulation POPs (EU) 2019/1021 - Pentachlorophenol (PCP)**

Test Method : Modified § 64 LFGB, BVL, B 82.02.8-2001 Alkaline (KOH) digestion, analysis was performed by GC-ECD or GC-MS.

<u>Test Item(s)</u>	<u>CAS NO</u>	<u>Unit</u>	<u>MDL 1+3+11</u>	<u>13+15+17</u>	<u>19+21+23</u>
Pentachlorophenol (PCP)	87-86-5	mg/kg	0.15	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>CAS NO</u>	<u>Unit</u>	<u>MDL 25+27+29</u>	<u>31+33+35</u>	<u>2+4+12</u>
Pentachlorophenol (PCP)	87-86-5	mg/kg	0.15	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>CAS NO</u>	<u>Unit</u>	<u>MDL 14+16+18</u>	<u>20+22+24</u>	<u>26+28+30</u>
Pentachlorophenol (PCP)	87-86-5	mg/kg	0.15	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>CAS NO</u>	<u>Unit</u>	<u>MDL 37+39+41</u>	<u>38+40+42</u>	<u>5+6+7</u>
Pentachlorophenol (PCP)	87-86-5	mg/kg	0.15	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>CAS NO</u>	<u>Unit</u>	<u>MDL 32+34+36</u>
Pentachlorophenol (PCP)	87-86-5	mg/kg	0.15
<b>Comment</b>			<b>PASS</b>

Notes :

RL (Reporting limit): 0.15 mg/kg  
 ND = Not Detected(< RL)  
**Requirement: Banned(< 0.5 mg/kg)**



**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo Dyes(Direct reduction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3) - EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS_NO	Unit	MDL	1+3+11	13+15+17	19+21+23
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND	ND
4,4' -diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND	ND
3,3' -dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3' -dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3' -dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4' -diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND	ND
4,4' -methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND	ND
4,4' -oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4' -thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	mg/kg	5	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>



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**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo Dyes(Direct reduction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3) - EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS_NO	Unit	MDL	25+27+29	31+33+35	2+4+12
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND	ND
4,4' -diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND	ND
3,3' -dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3' -dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3' -dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4' -diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND	ND
4,4' -methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND	ND
4,4' -oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4' -thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine, TDA	95-80-7	mg/kg	5	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>



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**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo Dyes(Direct reduction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3) - EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS_NO	Unit	MDL	14+16+18	20+22+24	26+28+30
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND	ND
4,4' -diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND	ND
3,3' -dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3' -dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3' -dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4' -diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND	ND
4,4' -methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND	ND
4,4' -oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4' -thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	mg/kg	5	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>



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**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo Dyes(Direct reduction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3) - EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS_NO	Unit	MDL	37+39	38+40	32+34+36
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND	ND
4,4' -diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND	ND
3,3' -dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3' -dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3' -dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4' -diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND	ND
4,4' -methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND	ND
4,4' -oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4' -thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine, TDA	95-80-7	mg/kg	5	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>



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Notes :

RL (Reporting limit): 5 mg/kg (for individual compound)

ND = Not Detected (< RL)

**Requirement: 30 mg/kg (for individual compound)**

(1) Method A is direct reduction, direct reduction refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Method B is colorant extraction, colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 clause 10.1 and relevant clauses.

(2) The ISO 14362-1:2017 methods will enable further cleavage of 4 aminoazobenzene to non forbidden amines: aniline and 1,4 phenylenediamine, therefore, the test method of ISO 14362-3:2017 was employed to verify the presence of 4 aminoazobenzene

(3) Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).

(4) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used. In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.



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**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo Dyes (Colorant extraction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3) - EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS NO	Unit	MDL	1+3+11	13+15+17	19+21+23
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND	ND
4,4' -diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND	ND
3,3' -dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3' -dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3' -dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4' -diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND	ND
4,4' -methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND	ND
4,4' -oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4' -thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	mg/kg	5	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>



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**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo Dyes (Colorant extraction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3) - EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS NO	Unit	MDL	25+27+29	31+33+35	2+4+12
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND	ND
4,4' -diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND	ND
3,3' -dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3' -dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3' -dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4' -diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND	ND
4,4' -methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND	ND
4,4' -oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4' -thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine, TDA	95-80-7	mg/kg	5	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>



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**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo Dyes (Colorant extraction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3) - EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS_NO	Unit	MDL	14+16+18	20+22+24	26+28+30
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND	ND
4,4' -diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND	ND
3,3' -dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3' -dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3' -dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4' -diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND	ND
4,4' -methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND	ND
4,4' -oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4' -thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	mg/kg	5	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>



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**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo Dyes (Colorant extraction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3) - EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS_NO	Unit	MDL	37+39	38+40	32+34+36
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND	ND
4,4' -diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND	ND
3,3' -dichlorobenzidine	91-94-1	mg/kg	5	ND	ND	ND
3,3' -dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND	ND
3,3' -dimethylbenzidine	119-93-7	mg/kg	5	ND	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4' -diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND	ND
4,4' -methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND	ND
4,4' -oxydianiline	101-80-4	mg/kg	5	ND	ND	ND
4,4' -thiodianiline	139-65-1	mg/kg	5	ND	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	mg/kg	5	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>



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Notes :

RL (Reporting limit): 5 mg/kg (for individual compound)  
 ND = Not Detected (< RL)

**Requirement: 30 mg/kg (for individual compound)**

(1) Method A is direct reduction, direct reduction refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Method B is colorant extraction, colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 clause 10.1 and relevant clauses.

(2) The ISO 14362-1:2017 methods will enable further cleavage of 4 aminoazobenzene to non forbidden amines: aniline and 1,4 phenylenediamine, therefore, the test method of ISO 14362-3:2017 was employed to verify the presence of 4 aminoazobenzene

(3) Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).

(4) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used. In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylene-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.



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**Entry 23 of Commission Regulation (EU) No 835/2012, (EU) No 494/2011 and (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Cadmium(Cd)**

Test Method : With reference to EN 1122: 2001, Method B, analysis was performed by AAS.

Test Item(s)	Unit	MDL	8+9+10
Cadmium (Cd)	mg/kg	5	ND
<b>Comment</b>			<b>PASS</b>

Notes :

RL (Reporting limit): 5 mg/kg  
 ND = Not Detected(< RL)  
**Requirement: 100 mg/kg**

**Entry 46a of Commission Regulation (EU) 2016/26 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Nonylphenol Ethoxylates(NPEOs)**

Test Method : With reference to ISO 18254-1:2016, analysis was performed by LC-MS

Test Item(s)	Unit	MDL	1+3+11	13+15+17	19+21+23
Nonylphenol Ethoxylate (NPEO)	mg/kg	30	ND	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Test Item(s)	Unit	MDL	25+27+29	31+33+35	2+4+12
Nonylphenol Ethoxylate (NPEO)	mg/kg	30	ND	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Test Item(s)	Unit	MDL	14+16+18	20+22+24	26+28+30
Nonylphenol Ethoxylate (NPEO)	mg/kg	30	ND	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Test Item(s)	Unit	MDL	37+39+41	38+40+42	5+6+7
Nonylphenol Ethoxylate (NPEO)	mg/kg	30	ND	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Test Item(s)	Unit	MDL	32+34+36
Nonylphenol Ethoxylate (NPEO)	mg/kg	30	ND
<b>Comment</b>			<b>PASS</b>

Notes :

RL (Reporting limit) :30 mg/kg  
 ND = Not Detected(< RL)  
**Requirement: 100 mg/kg**



**Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organotin Compounds**

Test Method : SGS In-house method (GZTC CHEM-TOP-031, with reference to ISO 17353:2004), analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	1+3+11	13+15+17	19+21+23
Dibutyl tin (DBT) by weight of Tin	mg/kg	100	ND	ND	ND
Diocetyl tin (DOT) by weight of Tin	mg/kg	100	ND	ND	ND
Tributyl tin (TBT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Triphenyl tin (TPhT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Tricyclohexyltin (TCyT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Trioctyltin (TOT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Tripropyltin (TPT) by weight of Tin	mg/kg	100	ND	ND	ND
Trimethyltin(TMT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Σ of Tri substituted organotin compounds calculated as tin	mg/kg	100	ND	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Test Item(s)	Unit	MDL	25+27+29	31+33+35	2+4+12
Dibutyl tin (DBT) by weight of Tin	mg/kg	100	ND	ND	ND
Diocetyl tin (DOT) by weight of Tin	mg/kg	100	ND	ND	ND
Tributyl tin (TBT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Triphenyl tin (TPhT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Tricyclohexyltin (TCyT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Trioctyltin (TOT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Tripropyltin (TPT) by weight of Tin	mg/kg	100	ND	ND	ND
Trimethyltin(TMT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Σ of Tri substituted organotin compounds calculated as tin	mg/kg	100	ND	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Test Item(s)	Unit	MDL	14+16+18	20+22+24	26+28+30
Dibutyl tin (DBT) by weight of Tin	mg/kg	100	ND	ND	ND
Diocetyl tin (DOT) by weight of Tin	mg/kg	100	ND	ND	ND
Tributyl tin (TBT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Triphenyl tin (TPhT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Tricyclohexyltin (TCyT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Trioctyltin (TOT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Tripropyltin (TPT) by weight of Tin	mg/kg	100	ND	ND	ND
Trimethyltin(TMT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Σ of Tri substituted organotin compounds calculated as tin	mg/kg	100	ND	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Notes :

RL (Reporting limit): 100 mg/kg (for individual compound)

ND = Not Detected (< RL)

**Requirement:**

**Tri substituted Organotin compound (TBT,TPhT,TCyT,TPT,TOT,TMT): 1000 mg/kg by weight of tin (sum)**

**DBT: 1000 mg/kg by weight of tin**

**DOT: 1000 mg/kg by weight of tin**



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**Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organotin Compounds**

Test Method : SGS In-house method (GZTC CHEM-TOP-031, with reference to ISO 17353:2004), analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	37+39+41	38+40+42	5+6+7
Dibutyl tin (DBT) by weight of Tin	mg/kg	100	ND	ND	ND
Diocetyl tin (DOT) by weight of Tin	mg/kg	100	ND	ND	ND
Tributyl tin (TBT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Triphenyl tin (TPhT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Tricyclohexyltin (TCyT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Triocetyl tin (TOT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Tripropyltin (TPT) by weight of Tin	mg/kg	100	ND	ND	ND
Trimethyltin (TMT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Σ of Tri substituted organotin compounds calculated as tin	mg/kg	100	ND	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Test Item(s)	Unit	MDL	8+9+10	32+34+36
Dibutyl tin (DBT) by weight of Tin	mg/kg	100	ND	ND
Diocetyl tin (DOT) by weight of Tin	mg/kg	100	ND	ND
Tributyl tin (TBT) by weight of Tin	mg/kg	100.00	ND	ND
Triphenyl tin (TPhT) by weight of Tin	mg/kg	100.00	ND	ND
Tricyclohexyltin (TCyT) by weight of Tin	mg/kg	100.00	ND	ND
Triocetyl tin (TOT) by weight of Tin	mg/kg	100.00	ND	ND
Tripropyltin (TPT) by weight of Tin	mg/kg	100	ND	ND
Trimethyltin (TMT) by weight of Tin	mg/kg	100.00	ND	ND
Σ of Tri substituted organotin compounds calculated as tin	mg/kg	100	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>

Notes :

RL (Reporting limit): 100 mg/kg (for individual compound)

ND = Not Detected (< RL)

**Requirement:**

**Tri substituted Organotin compound (TBT, TPhT, TCyT, TPT, TOT, TMT): 1000 mg/kg by weight of tin (sum)**

**DBT: 1000 mg/kg by weight of tin**

**DOT: 1000 mg/kg by weight of tin**



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**Entry 50 of Commission Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Polycyclic Aromatic Hydrocarbons(PAHs)**

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO	Unit	MDL	8+10
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
<b>Comment</b>				<b>PASS</b>

Notes :

RL (Reporting limit): 0.1 mg/kg (each)  
 ND = Not Detected(< RL)  
**Requirement: 1 mg/kg (each)**

**European Regulation POPs (EU) 2019/1021 - Short Chain Chlorinated Paraffins (SCCP)**

Test Method : With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

Test Item(s)	Unit	MDL	8+9+10
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	mg/kg	50	ND
<b>Comment</b>			<b>PASS</b>

Notes :

RL (Reporting limit): 50 mg/kg  
 ND = Not Detected(< RL)  
**Requirement: 1500 mg/kg**



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**Entry 51 of Commission Regulation (EU) 2018/2005 amending Annex XVII Regulation (EC) No 1907/2006 - Phthalates**

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO	Unit	MDL	8+9+10
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	30	ND
Benzylbutyl Phthalate (BBP)	85-68-7	mg/kg	30	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	30	ND
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	30	ND
Total (DBP + BBP + DEHP+DIBP)	-	mg/kg	30	ND

**Comment**

**PASS**

Notes :

RL (Reporting limit): 30 mg/kg (each)

ND = Not Detected(< RL)

**Requirement: Total (BBP+DBP+DEHP+DIBP) <1000 mg/kg**



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### Sample Photo



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The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

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



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HUIZHOU BOWEN MANUFACTURING LIMITED  
XINNAN 1ST ROAD, XIANAN VILLAGE, YUANZHOU TOWN, BOLUO COUNTY, HUIZHOU CITY,  
GUANGDONG PROVINCE, P.R.CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : COLOR NON-WOVEN FABRIC 16%;MELT BLOWN FABRIC 22%;HOT AIR COTTON 12%;SKIN FRIENDLY NON-WOVEN FABRIC 10%;EAR THREAD 25%,NOSE CLIP 15% PROTECTIVE RESPIRATOR IN (A)GOLDEN (B)SILVER

Sample Color : (A)GOLDEN; (B)SILVER  
(A)COLOR NON-WOVEN FABRIC 16%;MELT BLOWN FABRIC 22%;HOT AIR COTTON 12%;SKIN FRIENDLY NON-WOVEN FABRIC 10%;EAR THREAD 25%,NOSE CLIP 15%; (B)COLOR NON-WOVEN FABRIC 16%;MELT BLOWN FABRIC 22%;HOT AIR COTTON 12%;SKIN FRIENDLY NON-WOVEN FABRIC 10%;EAR THREAD 25%,NOSE CLIP 15%

Composition : 25%,NOSE CLIP 15%; (B)COLOR NON-WOVEN FABRIC 16%;MELT BLOWN FABRIC 22%;HOT AIR COTTON 12%;SKIN FRIENDLY NON-WOVEN FABRIC 10%;EAR THREAD 25%,NOSE CLIP 15%

Style No. : KAZE-01

Manufacturer : HUIZHOU BOWEN MANUFACTURING LIMITED

Country of Destination : United States, EUR

Sample Receiving Date : Dec 02, 2020  
Testing Period : Dec 02, 2020 - Dec 08, 2020

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant



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Conclusion	A	B	Remark
Pentachlorophenol (PCP)	PASS	PASS	
Cadmium (Cd)	PASS	-	
Azo Dyes	PASS	PASS	
Nonylphenol Ethoxylates (NPEOs)	PASS	PASS	
Organotin Compounds	PASS	PASS	
Polycyclic Aromatic Hydrocarbons (PAHs)	PASS	-	
Short Chain Chlorinated Paraffins (SCCP)	PASS	-	
Phthalates	PASS	-	

Remark(s) : PASS=Meet Client's/General Requirement

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Lily Wang (Account Manager)



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**COMPONENT LIST / List of Materials**

Sample No.	Component No.	Description	Material	Color	Remark
A	1	Outer non woven fabric	Synthetic Fibers	Golden	
A	3	Hot air cotton fabric	Blended Fibers	White	B material type same as A
A	4	Melt-blown non woven fabric	Synthetic Fibers	White	B material type same as A
A	5	Lining non woven fabric	Synthetic Fibers	White	B material type same as A
A	6	Round band	Synthetic Fibers	Natural	
A	8	Foam with white layer backing	Foam	Black	B material type same as A
A	9	Adjustable clip	Plastics	White	B material type same as A
A	10	Nose clip	Plastics	White	B material type same as A
B	2	Outer non woven fabric	Synthetic Fibers	Silvery	
B	7	Round band	Synthetic Fibers	Grey	



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Test Result

**European Regulation POPs (EU) 2019/1021 - Pentachlorophenol (PCP)**

Test Method : Modified §64 LFGB, BVL, B 82.02.8-2001 Alkaline (KOH) digestion, analysis was performed by GC-ECD or GC-MS.

Test Item(s)	CAS NO	Unit	MDL	1+2	6+7	3+4+5
Pentachlorophenol (PCP)	87-86-5	mg/kg	0.15	ND	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Notes :

- RL (Reporting limit): 0.15 mg/kg
- ND = Not Detected(< RL)
- Requirement: Banned(< 0.5 mg/kg)**

**Entry 23 of Commission Regulation (EU) No 835/2012, (EU) No 494/2011 and (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Cadmium(Cd)**

Test Method : With reference to EN 1122: 2001, Method B, analysis was performed by AAS.

Test Item(s)	Unit	MDL	8+9+10
Cadmium (Cd)	mg/kg	5	ND
<b>Comment</b>			<b>PASS</b>

Notes :

- RL (Reporting limit): 5 mg/kg
- ND = Not Detected(< RL)
- Requirement: 100 mg/kg**



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**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo Dyes(Direct reduction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3) – EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS_NO	Unit	MDL	1+2	6+7
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>



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Notes :

RL (Reporting limit): 5 mg/kg (for individual compound)

ND = Not Detected(< RL)

**Requirement: 30 mg/kg (for individual compound)**

(1) Method A is direct reduction, direct reduction refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Method B is colorant extraction, colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 clause 10.1 and relevant clauses.

(2) The ISO 14362-1:2017 methods will enable further cleavage of 4 aminoazobenzene to non forbidden amines: aniline and 1,4 phenylenediamine, therefore, the test method of ISO 14362-3:2017 was employed to verify the presence of 4 aminoazobenzene.

(3) Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).

(4) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used. In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant. In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.



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**Entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azo Dyes (Colorant extraction approach)**

Test Method : According to EN ISO 14362-1:2017, analysis was performed by GC-MS/ HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3) – EN ISO 14362-3:2017, analysis was performed by GC-MS/ HPLC-DAD.

Test Item(s)	CAS NO	Unit	MDL	1+2	6+7
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
<b>Comment</b>				<b>PASS</b>	<b>PASS</b>



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Notes :

RL (Reporting limit): 5 mg/kg (for individual compound)

ND = Not Detected(< RL)

**Requirement: 30 mg/kg (for individual compound)**

(1) Method A is direct reduction, direct reduction refers to the extraction and reduction according to ISO 14362-1:2017 clause 10.2 and relevant clauses. Method B is colorant extraction, colorant extraction refers to the colourant extraction and subsequent reduction according to ISO 14362-1:2017 clause 10.1 and relevant clauses.

(2) The ISO 14362-1:2017 methods will enable further cleavage of 4 aminoazobenzene to non forbidden amines: aniline and 1,4 phenylenediamine, therefore, the test method of ISO 14362-3:2017 was employed to verify the presence of 4 aminoazobenzene.

(3) Max. limit specified by entry 43 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC).

(4) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used. In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant. In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.



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**Entry 46a of Commission Regulation (EU) 2016/26 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Nonylphenol Ethoxylates(NPEOs)**

Test Method : With reference to ISO 18254-1:2016, analysis was performed by LC-MS

Test Item(s)	Unit	MDL	1+2	6+7	3+4+5
Nonylphenol Ethoxylate (NPEO)	mg/kg	30	ND	ND	ND
<b>Comment</b>			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

Notes :

- RL (Reporting limit) :30 mg/kg
- ND = Not Detected(< RL)
- Requirement: 100 mg/kg**



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**Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Organotin Compounds**

Test Method : SGS In-house method (GZTC CHEM-TOP-031, with reference to ISO 17353:2004), analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>1+2</u>	<u>6+7</u>	<u>3+4+5</u>
Dibutyl tin (DBT) by weight of Tin	mg/kg	100	ND	ND	ND
Diocetyl tin (DOT) by weight of Tin	mg/kg	100	ND	ND	ND
Tributyl tin (TBT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Triphenyl tin (TPHT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Tricyclohexyltin (TCyT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Triocetyl tin (TOT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Tripropyltin (TPT) by weight of Tin	mg/kg	100	ND	ND	ND
Trimethyltin (TMT) by weight of Tin	mg/kg	100.00	ND	ND	ND
Σ of Tri substituted organotin compounds calculated	mg/kg	100	ND	ND	ND
<b>Comment</b> as tin			<b>PASS</b>	<b>PASS</b>	<b>PASS</b>

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>8+9+10</u>
Dibutyl tin (DBT) by weight of Tin	mg/kg	100	ND
Diocetyl tin (DOT) by weight of Tin	mg/kg	100	ND
Tributyl tin (TBT) by weight of Tin	mg/kg	100.00	ND
Triphenyl tin (TPHT) by weight of Tin	mg/kg	100.00	ND
Tricyclohexyltin (TCyT) by weight of Tin	mg/kg	100.00	ND
Triocetyl tin (TOT) by weight of Tin	mg/kg	100.00	ND
Tripropyltin (TPT) by weight of Tin	mg/kg	100	ND
Trimethyltin (TMT) by weight of Tin	mg/kg	100.00	ND
Σ of Tri substituted organotin compounds calculated	mg/kg	100	ND
<b>Comment</b> as tin			<b>PASS</b>

Notes :

RL (Reporting limit): 100 mg/kg (for individual compound)

ND = Not Detected (< RL)

**Requirement:**

**Tri substituted Organotin compound (TBT,TPHT,TCyT,TPT,TOT,TMT): 1000 mg/kg by weight of tin (sum)**

**DBT: 1000 mg/kg by weight of tin**

**DOT: 1000 mg/kg by weight of tin**



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**Entry 50 of Commission Regulation (EU) No 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Polycyclic Aromatic Hydrocarbons(PAHs)**

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS_NO</u>	<u>Unit</u>	<u>MDL</u>	<u>8+9</u>
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	<b>ND</b>
Chrysene(CHR)	218-01-9	mg/kg	0.1	<b>ND</b>
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	<b>ND</b>
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	<b>ND</b>
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	<b>ND</b>
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	<b>ND</b>
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	<b>ND</b>
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	<b>ND</b>
<b>Comment</b>				<b>PASS</b>

Notes :

RL (Reporting limit): 0.1 mg/kg (each)  
 ND = Not Detected(< RL)  
**Requirement: 1 mg/kg (each)**

**European Regulation POPs (EU) 2019/1021 - Short Chain Chlorinated Paraffins (SCCP)**

Test Method : With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>8+9+10</u>
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	mg/kg	50	<b>ND</b>
<b>Comment</b>			<b>PASS</b>

Notes :

RL (Reporting limit): 50 mg/kg  
 ND = Not Detected(< RL)  
**Requirement: 1500 mg/kg**



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**Entry 51 of Commission Regulation (EU) 2018/2005 amending Annex XVII Regulation (EC) No 1907/2006 - Phthalates**

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO	Unit	MDL	8+9+10
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	30.000	ND
Benzylbutyl Phthalate (BBP)	85-68-7	mg/kg	30.000	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	30.000	ND
Diisobutyl Phthalate (DIBP)	84-69-5	mg/kg	30.000	ND
Total (DBP + BBP + DEHP+DIBP)	-	mg/kg	30	ND
<b>Comment</b>				<b>PASS</b>

Notes :

RL (Reporting limit): 30 mg/kg (each)

ND = Not Detected(< RL)

**Requirement: Total (BBP+DBP+DEHP+DIBP) <1000 mg/kg**

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )

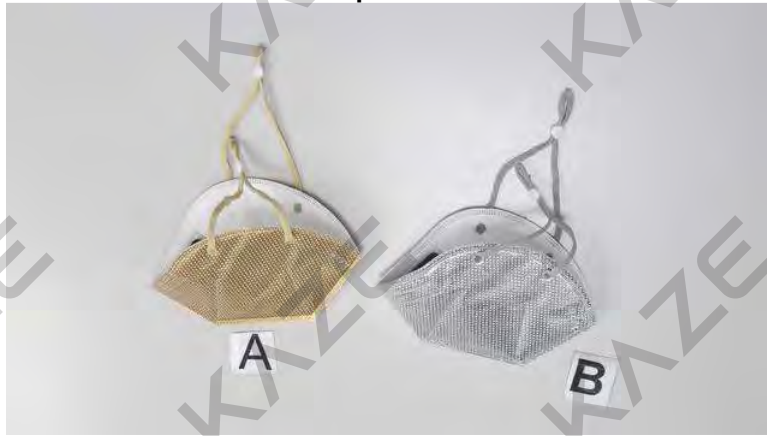


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Sample Photo



The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

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



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Test Report **SL52105232489101TX**

Date: March 03, 2021

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HUIZHOU BOWEN MANUFACTURING LIMITED  
XINNAN 1ST ROAD, XIANAN VILLAGE, YUANZHOU TOWN, BOLUO COUNTY, HUIZHOU CITY,  
GUANGDONG PROVINCE, P.R.CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Kaze Face Mask (Claimed Type II)

Sample Color : (A)Citrus Orange

Composition : (A)25%ear thread, 22%melt blown fabric; 16%Color non-woven fabric; 15%nose clip; 12%hot air cotton; 10%skin friendly non-woven fabric

Style No. : KAZE-01

Lot No. : 2020.12

Manufacturer : Huizhou Bowen Manufacturing Limited

Country of Destination : Europe, USA

Sample Receiving Date : Feb 07, 2021

Testing Period : Feb 08, 2021 - Mar 03, 2021

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant

**Comment:**

<b>EN 14683:2019+AC:2019 Medical Face Masks-Requirements and Test Methods</b>	(A)
<b>Clause 5.2 Performance Requirement</b>	
Clause 5.2.2 Bacterial filtration efficiency (BFE)	EXCLUDED
Clause 5.2.3 Breathability	EXCLUDED
Clause 5.2.4 Splash Resistance	EXCLUDED
Clause 5.2.5 Microbial Cleanliness	M
Clause 5.2.6 Biocompatibility	EXCLUDED

Remark: M=Meet EN 14683:2019+AC:2019 Performance Requirement (Type II)  
F=Below EN 14683:2019+AC:2019 Performance Requirement (Type II)

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

Sara Guo (Account Executive)

Dongjing Liu (Authorized Signatory)

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Test Result

**EN 14683:2019+AC:2019 Medical Face Masks-Requirements and Test Methods**

**Clause 5.2 Performance Requirement**

**Clause 5.2.5 Microbial Cleanliness**

(EN 14683:2019+AC:2019 Annex D and EN ISO 11737-1:2018)

Sample: A

Test Specimen#	Mask Weight(g)	Total Bioburden, (CFU/mask)	Total Bioburden, (CFU/g)
1#	6.77	33	4.87
2#	7.01	27	3.85
3#	6.67	27	4.05
4#	7.05	36	5.11
5#	6.76	27	3.99

Remark: Performance Requirement: Type I≤30 CFU/g, Type II≤30 CFU/g, Type IIR≤30 CFU/g

**Sample Photo**



Product information is provided by applicant without verification of authentication of the brand.

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

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



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# EU Type Examination Certificate

This is to certify that:

Huizhou Bowen Manufacturing Ltd  
Xinnan 1st Road, Xianan Village  
Yuanzhou Town, Boluo County  
Huizhou City  
Guangdong  
516123  
China

Holds Certificate Number:

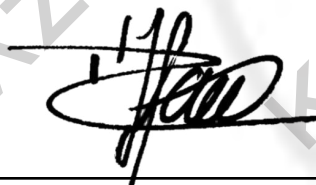
CE 729875

In respect of:

**Model: Kaze-05 Face mask**  
**To technical specification Annex II (EHSR) of the PPE Regulation (EU) 2016/425**  
**PPE for use by healthcare professionals as per Commission recommendation 2020/403**

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):



Drs. Dave Hagenaaers, Managing Director

First Issued: 2021-01-25

Latest Issue: 2021-01-25

Effective Date: 2021-01-25

Expiry Date: 2022-01-25

Page: 1 of 3



...making excellence a habit.™

# EU Type Examination Certificate

No. CE 729875

## Product Specification

**Product Name:** Kaze Protective Respirator.

**Product Type:** Particulate filtering half masks for use by Healthcare professionals.

**Model:** **Kaze-05**

**Colour Variants:** 18 Colour Variants - White, Dove Grey, Forest Pine, Sweet Pea, Powder Blue, Royal Blue, Racing Red, Fuchsia, Maroon, Ultraviolet, Rose Quartz, Sandy Beige, Citrus Orange, Champagne, Natural Sand, Light Blush, Espresso and Silver Grey

**Classification:** FFP2 NR

**Technical Specification:** Technical specification to satisfy Annex II of the PPE Regulation (EU) 2016/425.

**Product Description:** The respirator is non-reusable, secured to the face of the user by a pair of elasticated ear straps, and has no exhalation valve. The respirator is FFP2 NR class, vertical fold flat type. The Respirator has 18 Colour Variants; White, Dove Grey, Forest Pine, Sweet Pea, Powder Blue, Royal Blue, Racing Red, Fuchsia, Maroon, Ultraviolet, Rose Quartz, Sandy Beige, Citrus Orange, Champagne, Natural Sand, Light Blush, Espresso and Silver Grey.

The respirator listed on this certificate is for use by healthcare workers, first responders and other personnel involved in the efforts to contain the COVID-19 virus and avoid its further spread.

The product covered by this certificate is not approved for industrial applications and the certificate is only valid as long as EU Commission recommendation sheet 2020/403 remains applicable.

**Product Assessments:** BSI's PPE for Healthcare Professionals 2020/403 – RPE Technical Specification.

First Issued: 2021-01-25

Latest Issue: 2021-01-25

Effective Date: 2021-01-25

Expiry Date: 2022-01-25

Page: 2 of 3

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BSI Group The Netherlands B.V., registered in the Netherlands under number 33264284, at John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands  
A member of BSI Group of Companies.

# EU Type Examination Certificate

No. CE 729875

## Certificate Administration Details

Technical File Reference: Huizhou Bowen Manufacturing Ltd, Kaze-05

## Certificate Amendment Record:

Issue date	Comments	BSI Review No.
January 2021	First issue.	2797:20:3218633

## Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall process utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate for the products is also dependent on the maintenance of the EU Conformity to Type based on Internal Production Control plus supervised product checks at random intervals, Annex VII (Module C2) as referenced on BSI issued Certificate CE 729876.

First Issued: 2021-01-25

Latest Issue: 2021-01-25

Effective Date: 2021-01-25

Expiry Date: 2022-01-25

Page: 3 of 3

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A member of BSI Group of Companies.

# Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

This is to certify that:

Huizhou Bowen Manufacturing Ltd  
Xinnan 1st Road, Xianan Village  
Yuanzhou Town, Boluo County  
Huizhou City  
Guangdong  
516123  
China

Holds Certificate Number:

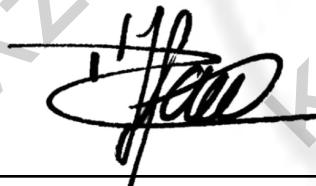
CE 729876

In respect of:

**For the manufacture of particulate respirators to technical specification to satisfy Annex II of the PPE Regulation (EU) 2016/425.**

on the basis that BSI carried out the supervised production checks at random intervals under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex VII (Module C2)

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):



Drs. Dave Hagenaaers, Managing Director

First Issued: 2021-01-25

Latest Issue: 2021-01-25

Effective Date: 2021-01-25

Expiry Date: 2022-01-25

Page: 1 of 3



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# Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

No. CE 729876

## Product manufactured by:

Huizhou Bowen Manufacturing Ltd.  
Xinnan 1st Road, Xianan Village  
Yuanzhou Town, Boluo County  
Huizhou City  
Guangdong  
516123  
China

## Product details

The respiratory protective device covered by the scope of this Module C2 Certificate and the Technical Specification to which the product is manufactured are as follows:

<b>Product type:</b>	Particulate filtering half masks for use by Healthcare professionals.
<b>Model and classifications:</b>	Kaze-05 FFP2 NR
<b>Colour Variants:</b>	18 Colour Variants - White, Dove Grey, Forest Pine, Sweet Pea, Powder Blue, Royal Blue, Racing Red, Fuchsia, Maroon, Ultraviolet, Rose Quartz, Sandy Beige, Citrus Orange, Champagne, Natural Sand, Light Blush, Espresso and Silver Grey.
<b>Technical Specification:</b>	Technical specification to satisfy Annex II of the PPE Regulation (EU) 2016/425. BSI's PPE for Healthcare Professionals 2020/403 – RPE Technical Specification.

First Issued: 2021-01-25  
Latest Issue: 2021-01-25

Effective Date: 2021-01-25  
Expiry Date: 2022-01-25

Page: 2 of 3

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BSI Group The Netherlands B.V., registered in the Netherlands under number 33264284, at John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands  
A member of BSI Group of Companies.



# Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

No. CE 729876

## Certificate Administration Details:

### Certificate Amendment Record and BSI internal Review relating to this Certificate

Issue date	Comments	BSI Review No.
January 2021	First issue.	2797:20:3218634

## Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspects of the overall quality system utilized in the manufacture of the products, failure to do so could invalidate the Certificate in respect of product manufactured after the introduction of such changes.

First Issued: 2021-01-25  
Latest Issue: 2021-01-25

Effective Date: 2021-01-25  
Expiry Date: 2022-01-25

## EU DECLARATION OF CONFORMITY

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

Manufacturer and address	Huizhou Bowen Manufacturing Limited Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P.R.China
Product name	Kaze Protective Respirator
Model/ Serial No.	KAZE-05
Technical Reference:	EN 149:2001+A1:2009
Applicable Regulation:	PPE Regulation 2016/425
Notified body for EU type-examination (Module B)	BSI Group - NB 2797 The Netherlands BV, Say Building, John M Keynesplein 9, 1066 EP, Amsterdam, Netherlands
Notified body for EU type-examination (Module C2)	BSI Group - NB 2797 The Netherlands BV, Say Building, John M Keynesplein 9, 1066 EP, Amsterdam, Netherlands
Certificate number	CE 729875 & CE 729876

We declared that given information on the above statement and attached documents/records are true and correct to the best of our knowledge.

Signed for and on behalf of: Huizhou Bowen Manufacturing Limited

29<sup>th</sup> April, 2021

Mr. Tse Ka Fai

Director of Sales Operation



# EU Type Examination Certificate

This is to certify that:

Huizhou Bowen Manufacturing Ltd  
Xinnan 1st Road, Xianan Village  
Yuanzhou Town, Boluo County  
Huizhou City  
Guangdong  
516123  
China

Holds Certificate Number:

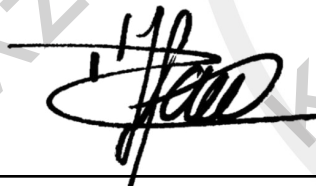
CE 749147

In respect of:

**Respiratory protective devices - Filtering half masks to protect against particles  
To EN 149:2001+A1:2009  
Model: Kaze-05.**

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):



Drs. Dave Hagenaaers, Managing Director

First Issued: 2021-08-10

Latest Issue: 2021-08-10

Effective Date: 2021-08-10

Expiry Date: 2026-08-10

Page: 1 of 3



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# EU Type Examination Certificate

No. CE 749147

## Product Specification

**Product Type:** Filtering half masks to protect against particles.

**Model:** Kaze-05

**Product description:** The mask is designed to protect against solid and non-volatile liquid particles. The model is a non-valved, non-sterile device for single shift use (denoted by the classification symbol NR). The retention system consists of 2 ear bands that incorporate length adjusters.

The model is available in the following colours:

White	Dove Grey	Forest Pine	Sweet Pea
Powder Blue	Royal Blue	Racing Red	Fuchsia
Maroon	Ultraviolet	Rose Quartz	Sandy Beige
Citrus Orange	Champagne	Natural Sand	Light Blush
Espresso	Silver Grey	Cobalt Blue	Purple Berry
Spearmint	Key Lime	Bubblegum	Ivory
Onxy			

**Technical specifications:** EN 149:2001+A1:2009 – Respiratory protective devices – Filtering half masks to protect against particles.

**EN 149 Classification:** FFP2 NR

First Issued: 2021-08-10

Latest Issue: 2021-08-10

Effective Date: 2021-08-10

Expiry Date: 2026-08-10

Page: 2 of 3

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A member of BSI Group of Companies.

# EU Type Examination Certificate

No. CE 749147

## Certificate Administration Details

Technical File Reference: Kaze-05.

## Certificate Amendment Record:

Issue date	Comments	BSI Review Number
August 2021	First issue under PPE Regulation (EU) 2016/425. The product was initially Certified by BSI as a mask for protection against Covid-19, Certificate CE 729875 refers.	2797:21:3384908

## Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall processes utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate for the products is also dependent on the maintenance of the EU Conformity to Type based on Internal Production Control plus supervised product checks at random intervals, Annex VII (Module C2) as referenced on BSI issued Certificate CE 749149.

First Issued: 2021-08-10

Latest Issue: 2021-08-10

Effective Date: 2021-08-10

Expiry Date: 2026-08-10

Page: 3 of 3

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BSI Group The Netherlands B.V., registered in the Netherlands under number 33264284, at John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands  
A member of BSI Group of Companies.

# Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

This is to certify that:

Huizhou Bowen Manufacturing Ltd  
Xinnan 1st Road, Xianan Village  
Yuanzhou Town, Boluo County  
Huizhou City  
Guangdong  
516123  
China

Holds Certificate Number:

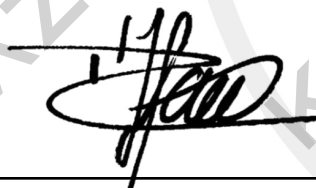
CE 749149

In respect of:

**Respiratory protective devices to EN 149:2001+A1:2009 -  
Filtering half masks to protect against particles.**

on the basis that BSI carried out the supervised production checks at random intervals under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex VII (Module C2)

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):



Drs. Dave Hagenaaers, Managing Director

First Issued: 2021-08-10

Latest Issue: 2021-08-10

Effective Date: 2021-08-10

Expiry Date: 2026-08-10

Page: 1 of 3



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# Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

No. CE 749149

## Design and Production Location:

Huizhou Bowen Manufacturing Ltd  
Xinnan 1<sup>st</sup> Road, Xianan Village  
Yuanzhou Town, Boluo County  
Huizhou City  
Guangdong  
516123  
China

## Scope of Certificate

The respiratory protective device covered by the scope of this Module C2 Certificate and the Technical Specification to which the product is manufactured are as follows:

<b>Product Type:</b>	Filtering half mask to protect against particles.																												
<b>Technical specification:</b>	EN 149:2001+A1:2009 – Respiratory protective devices – Filtering half masks to protect against particles.																												
<b>Model:</b>	Kaze-05 The model is available in the following colours:																												
	<table><tr><td>White</td><td>Dove Grey</td><td>Forest Pine</td><td>Sweet Pea</td></tr><tr><td>Powder Blue</td><td>Royal Blue</td><td>Racing Red</td><td>Fuchsia</td></tr><tr><td>Maroon</td><td>Ultraviolet</td><td>Rose Quartz</td><td>Sandy Beige</td></tr><tr><td>Citrus Orange</td><td>Champagne</td><td>Natural Sand</td><td>Light Blush</td></tr><tr><td>Espresso</td><td>Silver Grey</td><td>Cobalt Blue</td><td>Purple Berry</td></tr><tr><td>Spearmint</td><td>Key Lime</td><td>Bubblegum</td><td>Ivory</td></tr><tr><td>Onxy</td><td></td><td></td><td></td></tr></table>	White	Dove Grey	Forest Pine	Sweet Pea	Powder Blue	Royal Blue	Racing Red	Fuchsia	Maroon	Ultraviolet	Rose Quartz	Sandy Beige	Citrus Orange	Champagne	Natural Sand	Light Blush	Espresso	Silver Grey	Cobalt Blue	Purple Berry	Spearmint	Key Lime	Bubblegum	Ivory	Onxy			
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Spearmint	Key Lime	Bubblegum	Ivory																										
Onxy																													
<b>EN 149 classifications:</b>	FFP2 NR.																												

First Issued: 2021-08-10  
Latest Issue: 2021-08-10

Effective Date: 2021-08-10  
Expiry Date: 2026-08-10

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A member of BSI Group of Companies.

# Conformity to Type based on Internal Production Control plus supervised product checks at random intervals

No. CE 749149

## Certificate Administration Details

### Certificate Administration Record:

Issue date	Comments	BSI Project Ref.
August 2021	First Issue.	2797:21:3384910

### Certificate validity

The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall process utilised in the manufacture of the products, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

The validity of the Certificate is also dependent on the maintenance of a documented quality system.

First Issued: 2021-08-10  
Latest Issue: 2021-08-10

Effective Date: 2021-08-10  
Expiry Date: 2026-08-10



## EU DECLARATION OF CONFORMITY

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

Manufacturer and address	Huizhou Bowen Manufacturing Limited Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P.R.China
Product name	Kaze Protective Respirator
Model/ Serial No.	KAZE-05
Technical Reference:	EN 149:2001+A1:2009
Applicable Regulation:	PPE Regulation 2016/425
Notified body for EU type-examination (Module B)	BSI Group - NB 2797 The Netherlands BV, Say Building, John M Keynesplein 9, 1066 EP, Amsterdam, Netherlands
Notified body for EU ongoing production surveillance (Module C2)	BSI Group - NB 2797 The Netherlands BV, Say Building, John M Keynesplein 9, 1066 EP, Amsterdam, Netherlands
Certificate number	CE 749147 & CE 749149

We declared that given information on the above statement and attached documents/records are true and correct to the best of our knowledge.

Signed for and on behalf of: Huizhou Bowen Manufacturing Limited

29<sup>th</sup> April, 2021

Mr. Tse Ka Fai

Director of Sales Operation



# Test Report 3218630-R2.

Huizhou Bowen Manufacturing Ltd.

## Introduction

This report has been prepared by Paul Waller and relates to the activity detailed below:

Job/Registration Details	Client Details
Job number: 3218630-R2	Huizhou Bowen Manufacturing Ltd
Job type: Testing Samples Submitted	Xinnan 1st Road
Start Date: 07/09/2020	Xianan Village
Test type: Type Retest	Yuanzhou Town
Sample ID: 10190086, 10192109 and 10193209	Boluo County
Registration: CE 729875	Huizhou City
Scheme: Positive pressure RPE	Guangdong
Protocol: PP123	516123
Scheme Manager: Nathan Shipley	China

The report has been approved for issue by T Wicksey – Senior Test Engineer

Approved For Issue	
	Issue Date: 20 October 2020

## Objectives

This is an independent retest evaluation to only certain clauses or sub-clauses of the agreed specification in accordance with the following test programme:

BSI COVID-19 filtering face piece technical specification, for COVID-19 masks for use by healthcare workers  
Retest due to failures under BSI job numbers 3218630 and 3218630-R1.

## Product Scope

COVID-19 masks for use by healthcare workers

## Report Summary

The samples were received on 3 September 2020 and the testing was started on 7 September 2020.

The samples submitted complied with the requirements of the test work conducted.

## Test Samples

Sample ID	ER Number	Description
1 to 19	10190086, 10192109 and 10193209	Model: Kaze

## Description of Test Samples

Sample Description
COVID-19 masks for use by healthcare workers: Model: Kaze

## Test Requirements.

Testing in accordance with BSI COVID-19 filtering face piece technical specification  
 Technical testing specification for COVID-19 masks for use by healthcare workers

EN 149:2001+A1:2009 Performance requirement	EN 149:2001+A1:2009 Test method clause	Requirement	Assessment
7.7 Practical performance The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard. Where practical performance tests show the apparatus has imperfections related to wearer's acceptance, the test house shall provide full details of those parts of the practical performance tests which revealed these imperfections.  <i>2 test subjects, masks tested 'As received'</i>	Testing shall be done in accordance with 8.4.	During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded: a) head harness comfort; b) security of fastenings; c) field of vision; d) any other comments reported by the wearer on request.	Pass
7.9 Leakage 7.9.1 Total inward leakage  <i>3 or 5 subjects with samples AR (see criteria)</i>	Testing shall be done in accordance with 8.5.	Test 3 subjects - If the 3 tests produce results between 6% and 8% mean or individual results over 11%, test 5 subjects  If 5 tests undertaken; 23 of the 25 individual exercise results tests shall be not greater than 11 % (for FFP2) and, in addition, 4 of the 5 arithmetic means for the total inward leakage shall be not greater than 8 % (for FFP2)	Pass
7.9 Leakage 7.9.2 Penetration of filter material <i>3 test samples masks tested 'As received', for NaCl (Sodium Chloride) and PO (Paraffin oil), 3min test</i>	Testing shall be done in accordance with 8.11	6% for both PO and NaCl	Pass
7.12 Carbon dioxide content of the inhalation air <i>3 test samples, masks tested 'As received'</i>	Testing shall be done in accordance with 8.7.	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0 % (by volume).	Pass
7.16 Breathing resistance <i>3 test samples, masks tested 'As received'</i>	Testing shall be done in accordance with 8.9	The breathing resistances shall meet the requirements of: 30l/min – 0.7mbar (inhale) 95l/min – 2.4mbar (inhale) 160l/min – 3.0mbar (exhale)	Pass
Appendix A - Test Panel Data			
Product Photographs			

## Glossary of Terms.

Pass: Complies. Tested by BSI engineers at BSI laboratories

Pass 1: Complies. Witnessed by BSI engineers in manufacturers laboratory.

Pass 2: Complies. Tests carried out by third party lab; results accepted by BSI.

Pass\*: Report resulted in uncertainty and states that Compliance is more probable than non-compliance.

Fail: Non-compliance. Product does not meet the requirements of this clause.

Fail\*: Report resulted in uncertainty and states that Non-compliance is more probable than compliance.

N/T: Not Tested

N/A: Not Applicable

AR: As Received

TC: Temperature Conditioned

SW: Simulated Wear

FT: Flow Tested

MS: Mechanical strength

MMDF: Manufactures Minimum Design Flow

MMDC: Manufactures Minimum Design Condition

## Conditions of Issue.

This Test Report is issued subject to the conditions stated in current issue of 'BSI Terms of Service'. The results contained herein apply only to the particular sample(s) tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of BSI, who reserve the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.

Should you wish to speak with BSI in relation to this report, please contact Customer Services on +44 (0)8450 80 9000.

BSI  
Kitemark House  
Maylands Avenue  
Hemel Hempstead  
Hertfordshire  
HP2 4SQ



Opinions and Interpretations expressed herein are outside the scope of our UKAS accreditation.

Unless otherwise stated, any results not obtained from testing in a BSI laboratory are outside the scope of our UKAS accreditation.

## Test Results

Testing in accordance with BSI COVID-19 filtering face piece technical specification  
 BS EN 149:2001 +A1:2009 Technical testing specification for COVID-19 masks for use by healthcare workers

CLAUSE	REQUIREMENTS	ASSESSMENT
7.7	<p>Practical performance</p> <p>The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard. Where practical performance tests show the apparatus has imperfections related to <b>wearer's acceptance, the test house shall provide full details</b> of those parts of the practical performance tests which revealed these imperfections.</p> <p>Test in accordance with clause 8.4 of the standard.</p> <p><i>Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers</i></p> <p><i>During the tests the particle filtering half mask shall be subjectively assessed by the wearer and after the test, comments on the following shall be recorded:</i></p> <p><i>a) head harness comfort; b) security of fastenings; c) field of vision; d) any other comments reported by the wearer on request.</i></p>	Pass

Table A: Practical performance

Test candidate	Sample	Comments				Assessment
		Head harness comfort	Security of fastenings	Field of vision	Any other comments	
JB1	1 AR	OK	OK	OK	None	Pass
JS3	2 AR	OK	OK	OK	None	Pass

## Test Results

CLAUSE	REQUIREMENTS	ASSESSMENT
7.9	Leakage	
7.9.1	<p>Total inward leakage</p> <p>The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected.</p> <p>The total inward leakage consists of three components: face seal leakage, exhalation valve leakage (if exhalation valve fitted) and filter penetration.</p> <p>Test in accordance with clause 8.5 of the standard.</p> <p><i>Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers</i></p> <p><i>Test 3 subjects - If the 3 tests produce results between 6% and 8% mean or individual results over 11%, test 5 subjects</i></p> <p><i>If 5 tests undertaken;</i></p> <p><i>23 of the 25 individual exercise results tests shall be not greater than 11 % (for FFP2) and, in addition, 4 of the 5 arithmetic means for the total inward leakage shall be not greater than 8 % (for FFP2)</i></p>	Pass

Table B: Clause 7.9.1 - Total inward leakage

Test candidate	Sample	Pre test condition	Inward Leakage (%)						Assessment
			A	B	C	D	E	Average	
			Walking	Walking with head side to side	Walking with head up & down	Walking and talking	Walking		
JS3	3	AR	3.2615	2.0253	3.0112	2.0166	3.2989	2.7227	Pass
JB1	4	AR	2.0291	2.4515	2.6856	4.1372	3.4860	2.9579	Pass
AH1	5	AR	5.0302	6.4092	5.9401	5.5073	6.1333	5.8640	Pass



## Test Results (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
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7.9.2 Penetration of filter material

Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers  
**3 test samples masks tested 'As received', for NaCl (Sodium Chloride) and PO (Paraffin oil), 3 min test. Testing shall be done in accordance with 8.11. 6% limit for both PO and NaCl**

Pass

Table C: Clause 8.11 - Sodium Chloride penetration test

Sample number	Pre-test condition	Flow through filter (l/min)	Penetration (%)	
			Limit	Actual
8	AR	95	< 6	0.0301
9	AR			0.0228
10	AR			0.0652

Table D: Clause 8.11 - Paraffin oil penetration test

Sample number	Pre-test condition	Flow through filter (l/min)	Penetration (%)	
			Limit	Actual
11	AR	95	< 6	0.1815
12	AR			0.1110
13	AR			0.0675

7.12 Carbon dioxide content of inhalation air

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

Pass

Test in accordance with clause 8.7 of the standard.

Table E: Clause 8.7 - Carbon Dioxide content of the inhalation air

Sample	Pre-test condition	Dead space CO <sub>2</sub> (%)	
		Limit	Measured
14	AR	< 1.0	0.45
15	AR		0.45
16	AR		0.45

Test Results (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
--------	--------------	------------

7.16 Breathing resistance

*Testing in accordance with BSI COVID-19 filtering face piece technical specification, for masks for use by healthcare workers*

**3 test samples masks tested 'As received'. Test in accordance with clause 8.9 of the standard.**

Pass

*The breathing resistances shall meet the requirements of FFP2; 30l/min – 0.7mbar (inhale), 95l/min – 2.4mbar (inhale), 160l/min – 3.0mbar (exhale)*

Table F: Clause 8.9 – Breathing resistance. Inhalation resistance at a continuous flow

Sample	Pre-test condition	Continuous flow (l/min)	Inhalation resistance (mbar)	
			Limit	Measured
17	AR	30	< 0.7	0.35
18	AR			0.34
19	AR			0.39
17	AR	95	< 2.4	1.13
18	AR			1.10
19	AR			1.26

Table G: Clause 8.9 – Breathing resistance. Exhalation resistance at a continuous flow, measured in five orientations with the worst case reported

Sample	Pre-test condition	Continuous flow (l/min)	Exhalation resistance (mbar)	
			Limit	Measured
17	AR	160	< 3.0	1.83
18	AR			1.85
19	AR			2.05

Appendix A. – Test Panel Data

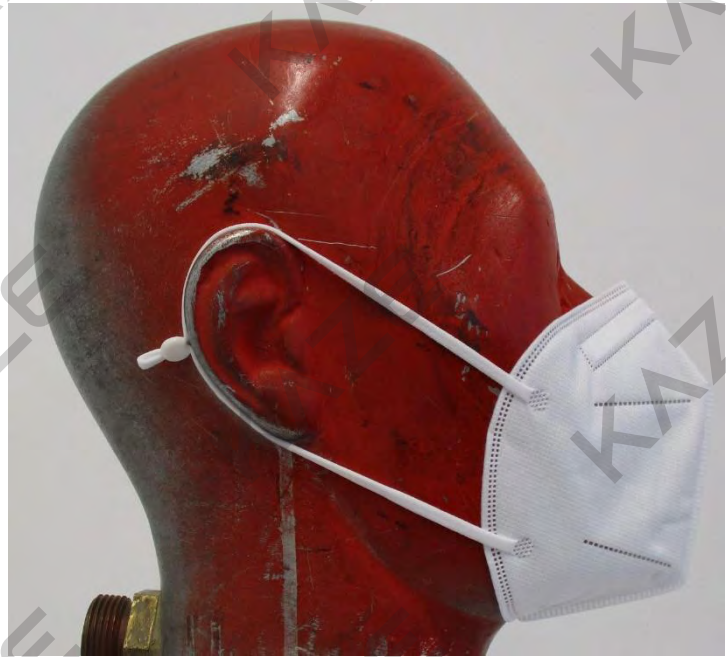
Test Candidate	Facial Dimensions (mm)					Sex
	Length of face	Width of face	Face depth	Width of mouth	Head Circumference	
JS3	126	134	124	49	600	Male
JB1	114	144	108	59	574	Male
AH1	108	124	130	46	570	Male

Note: All candidates were clean shaven

Product photographs.



Front view



Side view



Inside view

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

# Test Report 3384906.

Huizhou Bowen Manufacturing Ltd.

## Introduction

This report has been prepared by Paul Waller and relates to the activity detailed below:

Job/Registration Details	Client Details
Job number: 3384906	Huizhou Bowen Manufacturing Ltd.
Job type: Testing Samples Submitted	Xinnan 1st Road, Xianan Village
Start Date: 10/03/2021	Yuanzhou Town, Boluo County
Test type: Type	Huizhou City
Sample ID: 10196325	Guangdong
Registration: CE 729875	516123
Scheme: Negative pressure RPE	China
Protocol: PP123	
Scheme Manager: Nathan Shipley	

The report has been approved for issue by T Wicksey – Senior Test Engineer

Approved For Issue	
	Issue Date: 26 April 2021

## Objectives

This is an independent Type Test evaluation to BS EN 149:2001+A1:2009. This report covers the gap testing from the BSI COVID-19 filtering face piece technical specification, for COVID-19 masks for use by healthcare workers. See BSI Test Report 3218630 for the BSI COVID-19 filtering face piece technical specification test results.

## Product Scope

Respiratory protective device - Filtering half masks to protect against particles.

## Report Summary

The samples were received on 10 February 2021 and the testing was started on 10 March 2021.

The samples submitted complied with the requirements of the test work conducted.

### Test Samples.

Sample ID	ER Number	Description
1 to 37	10196325	Model: Kaze-05 FFP2 NR

### Description of Test Samples.

Sample Description
Model: Kaze-05 FFP2 NR Valveless fold flat particle filtering half mask.

## Test Requirements.

BS EN 149:2001 + A1:2009

Respiratory protective devices - Filtering half masks to protect against particles.

CLAUSE	REQUIREMENTS	ASSESSMENT
7	Requirements	-
7.1	General	-
7.2	Nominal values and tolerances	-
7.3	Visual Inspection	Pass (1)
7.4	Packaging	N/T (1)
7.5	Material	Pass
7.6	Cleaning and disinfecting	N/A (2)
7.7	Practical performance	N/T (3)
7.8	Finish of parts	Pass
7.9	Leakage	-
7.9.1	Total inward leakage	Pass (3)
7.9.2	Penetration of filter material	Pass (3)
7.10	Compatibility with skin	Pass
7.11	Flammability	Pass
7.12	Carbon dioxide content of inhalation air	N/T (3)
7.13	Head harness	Pass
7.14	Field of vision	Pass
7.15	Exhalation valves	N/A (4)
7.16	Breathing resistance	Pass (3)
7.17	Clogging	N/A (4)
7.18	Demountable parts	N/A (4)
9	Marking	N/T (1)
10	Information to be supplied by the manufacturer	N/T (1)
Appendix A - Test Panel Data		
Product Photographs		

- (1) Packaging, Marking and Information not assessed as requested by BSI Product Certification
- (2) Single use mask
- (3) See also results from BSI COVID-19 filtering face piece technical specification testing, BSI Test Report number 3218630.
- (4) Not a design feature of this product

## Glossary of Terms.

Pass: Complies. Tested by BSI engineers at BSI laboratories

Pass 1: Complies. Witnessed by BSI engineers in manufacturers laboratory.

Pass 2: Complies. Tests carried out by third party lab; results accepted by BSI.

Pass\*: Report resulted in uncertainty and states that Compliance is more probable than non-compliance.

Fail: Non-compliance. Product does not meet the requirements of this clause.

Fail\*: Report resulted in uncertainty and states that Non-compliance is more probable than compliance.

N/T: Not Tested

N/A: Not Applicable

AR: As Received

TC: Temperature Conditioned

SW: Simulated Wear

FT: Flow Tested

MS: Mechanical strength

MMDF: Manufacturer's Minimum Design Flow

## Conditions of Issue.

This Test Report is issued subject to the conditions stated in current issue of 'BSI Terms of Service'. The results contained herein apply only to the particular sample(s) tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of BSI, who reserve the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.

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BSI  
Kitemark House  
Maylands Avenue  
Hemel Hempstead  
Hertfordshire  
HP2 4SQ



Opinions and Interpretations expressed herein are outside the scope of our UKAS accreditation.

Unless otherwise stated, any results not obtained from testing in a BSI laboratory are outside the scope of our UKAS accreditation.



## Test Results

BS EN 149:2001 + A1:2009

Respiratory protective devices - Filtering half masks to protect against particles.

CLAUSE	REQUIREMENTS	ASSESSMENT
7.1	<p>General</p> <p>In all tests all samples shall meet the requirements.</p>	-
7.2	<p>Nominal values and tolerances</p> <p>Unless otherwise specified, the values stated in this European Standard are expressed as nominal values. Except for temperature limits, values, which are not stated as maxima or minima, shall be subject to a tolerance of <math>\pm 5\%</math>. Unless otherwise specified, the ambient temperature for testing shall be <math>(16 - 32)^\circ\text{C}</math>, and the temperature limits shall be subject to an accuracy of <math>\pm 1^\circ\text{C}</math>.</p>	-
7.3	<p>Visual Inspection</p> <p>The visual inspection shall also include the marking and the information supplied by the manufacturer.</p>	Pass (1)
7.5	<p>Material</p> <p>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.</p> <p>After undergoing the conditioning described in clause 8.3.1 of the standard none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.</p> <p>Three particle filtering half masks shall be tested.</p> <p>When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.</p> <p>Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.</p> <p>Testing shall be done in accordance with 8.2.</p>	<p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p>
7.8	<p>Finish of parts</p> <p>Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.</p> <p>Testing shall be done in accordance with 8.2.</p>	Pass

(1) Marking and user information were not assessed as requested by BSI Product Certification

## Test Results (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
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7.9 Leakage

7.9.1 Total inward leakage

The laboratory tests shall indicate that the particle filtering half mask can be used by the wearer to protect with high probability against the potential hazard to be expected.

The total inward leakage consists of three components: face seal leakage, exhalation valve leakage (if exhalation valve fitted) and filter penetration.

**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 x 5 exercises) for total inward leakage shall be not greater than**

25% for FFP1

11% for FFP2

5% for FFP3

and, 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

Testing shall be done in accordance with 8.5.

Table A: Clause 7.9.1 - Total inward leakage.

Test candidate	Sample	Pre-test condition	Inward leakage (%)					Average
			A	B	C	D	E	
			Walking	Walking with head side to side	Walking with head up & down	Walking and talking	Walking	
RW1	6	AR	1.4684	1.1598	1.3678	1.3983	1.5718	1.3932
LM2	7	AR	1.0715	1.5006	2.5410	1.8796	1.7334	1.7452
JS2	8	TC	1.8161	2.3571	2.7558	1.5499	2.5892	2.2136
KH1	9	TC	0.6444	0.6687	0.7467	0.5452	0.6940	0.6598
BH1	10	TC	2.2431	2.9587	4.1354	2.0157	3.6946	3.0094
RF1	11	TC	1.0241	0.8628	1.4205	0.8537	1.1205	1.0563
LM1	12	TC	5.2988	9.0980	8.3268	5.1433	6.3577	6.8449

- (1) Results for the remaining 'as received' samples are covered in BSI Test Report number 3218630 for the BSI COVID-19 filtering face piece technical specification testing.

## Test Results (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
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7.9.2 Penetration of filter material

The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1

A total of 9 samples of particle filtering half masks shall be tested for each aerosol. Testing in accordance with 8.11 using the Penetration test according to EN 13274-7, shall be performed on:

Pass (1)  
See Tables B and C

3 samples as received,

3 samples after the simulated wearing treatment described in 8.3.1.

Testing in accordance with 8.11 using the Exposure test with a specified mass of test aerosol of 120 mg, and for particle filtering devices claimed to be re-usable additionally the Storage test, according to EN 13274-7, shall be performed:

Pass (1)  
See Table D and E

for non-re-usable devices on:

3 samples after the test for mechanical strength in accordance with 8.3.3 followed by temperature conditioning in accordance with 8.3.2.

for re-usable devices on:

3 samples after the test for mechanical strength in accordance with 8.3.3 followed by temperature conditioning in accordance with 8.3.2 and followed by one cleaning and disinfecting cycle according to the manufacturer's instruction.

N/A (2)

Table B: Clause 8.11 - Sodium Chloride penetration test.

Sample	Pre-test condition	Continuous flow (l/min)	Penetration (%)	
			Limit	Measured
16	SW	95	6.0	0.2484
17	SW	95	6.0	0.2127
18	SW	95	6.0	0.1049

Table C: Clause 8.11 - Paraffin oil penetration test.

Sample	Pre-test condition	Continuous flow (l/min)	Penetration (%)	
			Limit	Measured
22	SW	95	6.0	0.1160
23	SW	95	6.0	0.0920
24	SW	95	6.0	0.1280

- (1) Results for the remaining 'as received' samples are covered in BSI Test Report number 3218630 for the BSI COVID-19 filtering face piece technical specification testing.
- (2) Not a design feature of this product.

Test Results (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
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7.9.2 Penetration of filter material (continued)

Table D: Clause 8.11. Exposure test Sodium Chloride.

	Sample 28 MS TC	Sample 29 MS TC	Sample 30 MS TC
Flow through filter	95 l/min		
Elapsed time (minutes)	Measured penetration % (Maximum permitted penetration 6.0 %)		
5	0.3145 (1)	0.0776 (1)	0.0670 (1)
10	0.2622	0.0543	0.0474
15	0.2278	0.0334	0.0333
20	0.1946	0.0246	0.0217
25	0.1678	0.0173	0.0159
30	0.1415	0.0109	0.0114
Result	Pass	Pass	Pass

- (1) The reading at which 5 subsequent sampling intervals showed a declining filter penetration. The testing was terminated without the 120mg exposure limit being reached, as permitted by BS EN 13274-7.

## Test Results (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
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7.9.2 Penetration of filter material (continued)

Table E: Clause 8.11 Paraffin oil exposure test.

	Sample 25 MS TC	Sample 26 MS TC	Sample 27 MS TC
Flow through filter	95 l/min		
Elapsed time (minutes)	Measured penetration % (Maximum permitted penetration 6.0 %)		
3	0.5225	0.1815	0.3020
5	0.5140	0.1825	0.3025
10	0.5380	0.1890	0.3090
15	0.5490	0.1960	0.3075
20	0.5600	0.1985	0.3185
25	0.5735	0.1980	0.3135
30	0.5875	0.1970	0.3140
35	0.6110	0.1990	0.3185
40	0.6430	0.1970	0.3195
45	0.6660	0.1970	0.3200
50	0.6895	0.2015	0.3215
55	0.7105	0.2035	0.3215
60	0.7425	0.2030	0.3190
(1)	0.7485	0.2030	0.3180
Result	Pass	Pass	Pass

(1) A loading of 120 mg was achieved after a period of 63 minutes, 10 seconds had elapsed.

Test Results (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
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7.10 Compatibility with skin  
 Materials that may come into contact with **the wearer's skin shall not be known to be likely to** cause irritation or any other adverse effect to health. Pass

Testing shall be done in accordance with 8.4 and 8.5.

7.11 Flammability  
 The material used shall not present a danger for the wearer and shall not be of a highly flammable nature.  
 When tested, the particle filtering half mask shall not burn or not continue to burn for more than 5 seconds after removal from the flame. Pass  
See Table F

The particle filtering half mask does not have to be usable after the test.

Testing shall be done in accordance with 8.6.

Table F: Clause 8.6 – Flammability.

Sample	Area exposed	Comments
34 AR	Filter material, earloop	Did not ignite
35 AR	Noseband.	Did not ignite
36 TC	Filter material, earloop	Did not ignite
37 TC	Noseband.	Did not ignite

7.13 Head harness  
 The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.  
 The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device. Pass

Testing shall be done in accordance with 8.4 and 8.5.

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

Testing shall be done in accordance with 8.4.

## Test Results (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
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7.16 Breathing resistance

The breathing resistances apply to valved and valveless particle filtering half masks and shall meet the requirements of Table 2.

Testing shall be done in accordance with 8.9.

A total of 9 valveless particle filtering half masks shall be tested:

3 as received, 3 after temperature conditioning in accordance with 8.3.2 and 3 after the test for simulated wearing in accordance with 8.3.1.

Testing shall be done in accordance with 8.9.

A total of 12 valved particle filtering half masks shall be tested: 3 as received, 3 after temperature conditioning in accordance with 8.3.2, 3 after the test for simulated wearing in accordance with 8.3.1, and 3 after the flow conditioning in accordance with 8.3.4.

Testing shall be done in accordance with 8.9.

 Pass (1)  
See Tables G, H  
and I

N/A (2)

Table G: Clause 8.9 – Breathing resistance. Inhalation resistance at a continuous flow.

Sample	Pre-test condition	Flow (l/min)	Limit (mbar)	Measured (mbar)
16	SW	30	0.7	0.45
17	SW	30	0.7	0.45
18	SW	30	0.7	0.43
31	TC	30	0.7	0.35
32	TC	30	0.7	0.33
33	TC	30	0.7	0.35

Table H: Clause 8.9 – Breathing resistance. Inhalation resistance at a continuous flow.

Sample	Pre-test condition	Flow (l/min)	Limit (mbar)	Measured (mbar)
16	SW	95	2.4	1.46
17	SW	95	2.4	1.42
18	SW	95	2.4	1.46
31	TC	95	2.4	1.20
32	TC	95	2.4	1.19
33	TC	95	2.4	1.22

- (1) Results for the remaining 'as received' samples are covered in BSI Test Report number 3218630 for the BSI COVID-19 filtering face piece technical specification testing.
- (2) Not a design feature of this product.

## Test Results (Continued)

CLAUSE	REQUIREMENTS	ASSESSMENT
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7.16 Breathing resistance (continued)

Table 1: Clause 8.9 – Breathing resistance. Exhalation resistance at a continuous flow, measured in five orientations with the highest value recorded.

Sample	Pre-test condition	Flow (l/min)	Limit (mbar)	Measured (mbar)
16	SW	160	3.0	2.32
17	SW	160	3.0	2.31
18	SW	160	3.0	2.32
31	TC	160	3.0	2.07
32	TC	160	3.0	2.03
33	TC	160	3.0	2.06

## Appendix A – Test Panel Data

Test Candidate	Facial Dimensions (mm)					Gender
	Length of face	Width of face	Face depth	Width of mouth	Head Circumference	
RW1	110	145	125	60	585	Male
LM2	110	148	125	44	589	Male
JS2	126	142	125	57	575	Male
KH1	112	142	115	60	585	Male
BH1	120	126	120	58	565	Male
RF1	104	122	121	55	549	Male
LM1	111	138	96	54	545	Female

Note: All candidates were clean shaven



Product photographs.



Front view



Side view



Inside view

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

# Test Report

**Applicant:** Huizhou Bowen Manufacturing Limited  
**Address:** Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P.R.China

**The following sample(s) was/were submitted and identified on behalf of the client as:**

Product name: Protective Respirator  
Model: NON-STERILE FOLD MASK  
Trade mark: KAZE  
Manufacturer: Huizhou Bowen Manufacturing Limited  
Address: Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P.R.China  
Claim level: FFP2  
Sample quantity: 120 Pcs

Sample Received Date: Jul. 17, 2020  
Testing Period: Jul. 17, 2020~ Jul. 21, 2020

**Test Requirement:**

According to the requirement of the client, the test item(s) of the sample is according to the standard EN149:2001+A1:2009.

**Test Result(s):** Please refer to the following page(s)

**Test Method:** Please refer to the following page(s)

Compiled by: \_\_\_\_\_ Reviewed by: \_\_\_\_\_  
Approved by: \_\_\_\_\_ Date: 2020-07-22



**Summary of assessment\***

Clause	Assessment
7.3 Visual inspection	NRq
7.4 Packaging	Pass
7.5 Material	Pass
7.6 Cleaning and disinfecting	N.A.
7.7 Practical performance	Pass
7.8 Finish of parts	Pass
7.9.1 Total inward leakage	Pass
7.9.2 Penetration of filter material	Pass
7.10 Compatibility with skin	Pass
7.11 Flammability	Pass
7.12 Carbon dioxide content of the inhalation air	Pass
7.13 Head harness	Pass
7.14 Field of vision	Pass
7.15 Exhalation valve(s)	N.A.
7.16 Breathing resistance	Pass
7.17 Clogging	N.A.
7.18 Demountable parts	Pass

**Key**

Pass	Requirement satisfied.
NRq	The clauses were not required.
Fail	Requirement not satisfied. Refer to the "Result details" section for more information.
N.A.	Assessment not carried out.

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

## Test Result

Respiratory Protective Devices — Filtering Half Masks to Protect against Particles — Requirements, Testing, Marking  
(EN 149:2001+A1:2009)

### Clause 7.3 Visual inspection

Test Requirement	Results	Comment
Marking and the information supplied by the manufacturer, requirements refer to clause 9 and clause 10.	The clauses were not required.	NRq

### Clause 7.4 Packaging

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

Test Requirement	Results	Comment
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.	Comply	Pass

### Clause 7.5 Material

(EN 149:2001+A1:2009, Clause 8.2 & 8.3.1 & 8.3.2)

Test Requirement	Results	Comment
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.	Comply	Pass
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.	Comply	Pass
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Comply	Pass
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Comply	Pass

**Clause 7.6 Cleaning and Disinfecting**

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

Test Requirement	Results	Comment
<p>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.</p> <p>With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.</p>	<p>Assessment not carried out.</p>	<p>N.A.</p>

**Clause 7.7 Practical Performance**

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

Test Requirement	Results	Comment
	Sample 11#~12#:	
<p>General:</p> <p>a) head harness comfort</p> <p>b) security of fastenings</p> <p>c) field of vision</p> <p>d) any other comments reported by the wearer on request.</p>	<p>No imperfections</p>	<p>Pass</p>
<p>Walking Test:</p> <p>The subjects wearing normal working clothes and wearing the particle filtering half mask shall walk at a regular rate of 6 km/h on a level course. The test shall be continuous, without removal of the particle filtering half mask, for a period of 10 min.</p>	<p>No imperfections</p>	
<p>Work Simulation Test:</p> <p>a) walking on the level with headroom of <math>(1.3 \pm 0.2)</math>m for 5min</p> <p>b) crawling on the level with headroom of <math>(0.7 \pm 0.05)</math>m for 5min</p> <p>c) filling a small basket (see Figure 1, approximate volume = 8 L) with chippings or other suitable material from a hopper which stands 1.5 m high and has an opening at the bottom to allow the contents to be shovelled out and a further opening at the top where the basket full of chippings is returned.</p>	<p>No imperfections</p>	

**Clause 7.8 Finish of Parts**  
(EN 149:2001+A1:2009, Clause 8.2)

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

**Clause 7.9.1 Total Inward Leakage**  
(EN 149:2001+A1:2009 Clause 8.5)

Test Requirement	Results	Comment
<p>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 x 5 exercises) for total inward leakage shall be not greater than:</p> <p style="padding-left: 40px;">25% for FFP1 11% for FFP2 5% for FFP3</p> <p>and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than:</p> <p style="padding-left: 40px;">22% for FFP1 8% for FFP2 2% for FFP3</p>	Detail refer to Appendix 1	Pass

**Appendix 1: Summarization of Test Data**

Subject	Sample	Condition	Normal Breathing (%)	Head Side/Side (%)	Head Up/Down (%)	Speak Loudly (%)	Normal Breathing (%)	Mean (%)
Zhai	1#	A.R.	2.3	2.8	2.8	3.1	2.6	2.72
Wu	2#	A.R.	5.4	5.2	6.3	8.8	7.4	6.62
Zhang	3#	A.R.	3.3	3.9	3.7	4.2	3.2	3.66
Yang	4#	A.R.	4.7	5.3	5.3	6.1	4.9	5.26
Yan	5#	A.R.	2.9	3.4	3.5	3.8	3.0	3.32
Chen	6#	T.C.	4.0	4.5	4.4	5.2	4.6	4.54
Lei	7#	T.C.	5.8	6.3	6.1	6.7	6.0	6.18
He	8#	T.C.	4.7	5.6	5.0	6.0	5.5	5.36
Zhong	9#	T.C.	5.1	5.7	5.6	6.2	6.1	5.74
Li	10#	T.C.	3.6	4.4	4.0	4.8	3.9	4.14

Facial Dimension:

Subject	Length of Face ( mm )	Width of Face ( mm )	Depth of Face ( mm )	Width of Mouth ( mm )
Zhai	135	165	125	53
Wu	112	172	118	55
Zhang	120	175	115	57
Yang	125	165	120	55
Yan	104	163	115	52
Chen	111	137	121	53
Lei	112	138	119	54
He	114	127	121	51
Zhong	105	135	103	52
Li	109	123	109	60

**Clause 7.9.2 Penetration of Filter Material**

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

Test Requirement			Results	Comment
The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.			Detail refer to Appendix 2	Pass
Classification	Maximum penetration of test aerosol			
	Sodium chloride test 95 L/min % max.	Paraffin oil test 95 L/min % max.		
FFP1	20	20		
FFP2	6	6		
FFP3	1	1		

**Appendix 2: Summarization of Test Data**

Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)		Assessment
			Average in 30s after 3 min	Max. during exposure	
Sodium chloride test	A.R.	13#	1.2	/	Pass
		14#	1.3	/	
		15#	1.2	/	
	S.W.	22#	1.1	/	
		23#	1.2	/	
		24#	1.2	/	
	M.S. + T.C.	25#	/	2.0	
		26#	/	2.2	
		27#	/	2.3	
	Paraffin oil test	A.R.	16#	2.7	
17#			3.1	/	
18#			2.6	/	
S.W.		19#	2.9	/	
		20#	2.6	/	
		21#	2.9	/	
M.S. + T.C.		28#	/	5.2	
		29#	/	5.3	
		30#	/	5.2	
Flow conditioning: 95.0 L/min					

**Clause 7.10 Compatibility with Skin**

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

Test Requirement	Results	Comment
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.	No irritation or any other adverse effect to health	Pass



**Clause 7.11 Flammability**

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

Test Requirement	Results	Comment
The material used shall not present a danger for the wearer and shall not be of highly flammable nature when tested, the particle filtering half mask shall not burn or not to continue on burn for more than 5 s after removal from the flame.	Detail refer to Appendix 3	Pass

**Appendix 3: Summarization of Test Data**

Flammability

Condition	Sample No.	Result	Assessment
A.R.	31#	Flammable, burn for no more than 5 s	Pass
	32#	Nonflammable	
T.C.	33#	Nonflammable	
	34#	Nonflammable	

**Clause 7.12 Carbon Dioxide Content of The Inhalation Air**

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

Test Requirement	Results	Comment
The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0 % (by volume)	Detail refer to Appendix 4	Pass

**Appendix 4: Summarization of Test Data**

Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Result	Assessment
A.R.	35#	0.19%	Mean value 0.22% Pass
	36#	0.23%	
	37#	0.23%	

**Clause 7.13 Head Harness**

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

Test Requirement	Results	Comment
The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.	Comply	Pass
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.	Comply	

**Clause 7.14 Field of Vision**

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

Test Requirement	Results	Comment
The field of vision is acceptable if determined so in practical performance	Comply	Pass

**Clause 7.15 Exhalation Valve(s)**

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

Test Requirement	Results	Comment
a) A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	Assessment not carried out.	N.A.
b) 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.	Assessment not carried out.	
c) 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.	Assessment not carried out.	
(d) When the exhalation valve housing is attached to the face blank, it shall withstand axially a tensile force of 10N applied for 10 s.	Assessment not carried out.	

**Clause 7.16 Breathing Resistance**  
 EN 149:2001+A1:2009, Clause 8.9)

Test Requirement				Results	Comment
The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.				Detail refer to Appendix 5	Pass
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		

**Appendix 5: Summarization of Test Data**

Specimen	Condition	Inhalation		Exhalation resistance(mbar)				
		At 30 L/min	At 95 L/min	At 160 L/min				
				A	B	C	D	E
38#	A.R.	0.5	2.1	2.4	2.4	2.4	2.4	2.4
39#		0.5	2.2	2.3	2.3	2.3	2.3	2.3
40#		0.5	2.1	2.5	2.5	2.5	2.5	2.5
41#	S.W.	0.5	2.2	2.5	2.6	2.5	2.5	2.5
42#		0.5	2.2	2.5	2.6	2.6	2.5	2.5
43#		0.5	2.2	2.5	2.5	2.5	2.5	2.5
44#	T.C.	0.5	2.3	2.5	2.5	2.5	2.5	2.5
45#		0.5	2.3	2.5	2.5	2.5	2.5	2.5
46#		0.5	2.3	2.5	2.5	2.5	2.5	2.5
/	F.C.	/	/	/	/	/	/	/
/		/	/	/	/	/	/	/
/		/	/	/	/	/	/	/

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

**Clause 7.17 Clogging**

(EN 149:2001+A1:2009, Clause 8.9 & 8.10)

Test Requirement	Results	Comment																		
<p>Clause 7.17.2 Breathing resistance</p> <p>Valved particle filtering half masks: After clogging the inhalation resistances shall not exceed: FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar at 95L/min continuous flow The exhalation resistance shall not exceed 3 mbar at 160 L/min continuous flow.</p> <p>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 95L/min continuous flow</p>	Assessment not carried out.	N.A.																		
Test Requirement	Results	Comment																		
<p>Clause 7.17.3 Penetration of filter material</p> <p>All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.</p> <table border="1"> <thead> <tr> <th rowspan="4">Classification</th> <th colspan="2">Maximum penetration of test aerosol</th> </tr> <tr> <th>Sodium chloride test 95 L/min</th> <th>Paraffin oil test 95 L/min</th> </tr> <tr> <th>%</th> <th>%</th> </tr> <tr> <th>max.</th> <th>max.</th> </tr> </thead> <tbody> <tr> <td>FFP1</td> <td>20</td> <td>20</td> </tr> <tr> <td>FFP2</td> <td>6</td> <td>6</td> </tr> <tr> <td>FFP3</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	Classification	Maximum penetration of test aerosol		Sodium chloride test 95 L/min	Paraffin oil test 95 L/min	%	%	max.	max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	Assessment not carried out.	N.A.
Classification		Maximum penetration of test aerosol																		
		Sodium chloride test 95 L/min	Paraffin oil test 95 L/min																	
		%	%																	
	max.	max.																		
FFP1	20	20																		
FFP2	6	6																		
FFP3	1	1																		

**Clause 7.18 Demountable Parts**

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

Test Requirement	Results	Comment
All demountable parts (if fitted) shall be readily connected and secured, where possible by hand	Comply	Pass

**Sample photo(s):**



Fig.1



Fig.2

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

The test report is effective only with both signature and specialized stamp, the result(s) shown in this report refer only to the sample(s) tested. Without written approval of NTEK, this report can't be reproduced except in full.

**Test Report**

Number: GZHT02329728

<b>Report Ref:</b>	GZHT02329728		
<b>Date Received:</b>	Aug 21, 2020	<b>Date Issued:</b>	Sep 02, 2020

<b>Company Name:</b>	HUIZHOU BOWEN MANUFACTURING LIMITED
<b>Address:</b>	XINNAN 1ST ROAD, XIANAN VILLAGE YUANZHOU TOWN, BOLUO COUNTY HUIZHOU CITY, GUANGDONG PROVINCE P.R.CHINA
<b>Contact Name:</b>	廖敏

The Following Sample Was Submitted And Identified By/On Behalf Of The Applicant As:	
End Uses	: Non-Sterile Medical Face Mask
Ratings	: Type I
Sample Name	: FFP2 NR Protective Respirator
No. Of Sample	: One(20 pieces)
Size	: 15.5cmX10.5cm
Colour	: White
Standard	: EN 14683:2019+AC:2019
Brand Name	: KAZE
Buyer	: NCK LIMITED (博文)
Manufacturer	: Huizhou Bowen Manufacturing Limited
Date received/ Test Started	: Aug 21, 2020
Ref	: Type No.: KAZE-01 Lot No.: 2020-08

Test was conducted on specific items, at our client's request.

Prepared And Checked By:  
For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch



Lin Lin  
General Manager



QIN / pennytao

**Intertek Testing Services Shenzhen Ltd. Guangzhou Branch**

深圳天祥质量技术服务有限公司广州分公司

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,  
No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

中国广州经济技术开发区科学城彩频路7号之二第1-8层02房

E201, E301, E401, E501, E601, E701, E801

Tel: +86 20 8213 9001 Fax: +86 20 8208 9909 Postcode: 510663

3/F Hengyun Building, 235 Kaifa Ave., Guangzhou

Economic & Technological Development District, Guangzhou, China

中国广州经济技术开发区开发大道235号恒运大厦3楼

Tel: +86 20 8396 6868 Fax: +86 20 8222 8169 Postcode: 510730



**Test Report**

Number: GZHT02329728

**Original Sample Photo**



Prepared And Checked By:  
For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Lin Lin  
General Manager

QIN / pennytao



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深圳天祥质量技术服务有限公司广州分公司

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,  
No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

中国广州经济技术开发区科学城彩频路7号之二第1-8层02房、01房

E201、E301、E401、E501、E601、E701、E801

Tel: +86 20 8213 9001 Fax: +86 20 8208 9909 Postcode: 510663

3/F, Hengyun Building, 235 Kaifa Ave., Guangzhou  
Economic & Technological Development District, Guangzhou, China

中国广州经济技术开发区开发大道235号恒运大厦3楼

Tel: +86 20 8396 6868 Fax: +86 20 8222 8169 Postcode: 510730



**Test Report**

Number: GZHT02329728

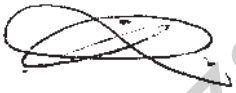
**Summary of testing:**

With reference to following standard:

- EN 14683:2019+AC:2019 Medical face masks – Requirements and test methods Type I

Materials Used in The Submitted Sample Were Found To Comply With The Type I Requirements of EN 14683:2019+AC:2019 with respect to Bacterial Filtration Efficiency test.

Prepared And Checked By:  
For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch



Lin Lin  
General Manager

QIN / pennytao



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深圳天祥质量技术服务有限公司广州分公司

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,  
No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

中国广州经济技术开发区科学城彩频路7号之二第1-8层02房、01房、03房

E201、E301、E401、E501、E601、E701、E801

Tel: +86 20 8213 9001 Fax: +86 20 8208 9909 Postcode: 510663

3/F, Hengyun Building, 235 Kaifa Ave., Guangzhou

Economic & Technological Development District, Guangzhou, China

中国广州经济技术开发区开发大道235号恒运大厦3楼

Tel: +86 20 8396 6868 Fax: +86 20 8222 8169 Postcode: 510730





**Test Report**

Number: GZHT02329728

Tests Conducted (As Requested By The Applicant)

1 Bacterial Filtration Efficiency (BFE)

As Per EN 14683:2019+AC:2019 Medical face masks – Requirements And Test Methods Annex B.

Test Item	Results (%)					Performance Requirement for Medical Face Mask (%)
	Specimen (1)	Specimen (2)	Specimen (3)	Specimen (4)	Specimen (5)	
Bacterial Filtration Efficiency (BFE)	>99.9	>99.9	>99.9	>99.9	>99.9	Type I: ≥95

Remarks:

1. Biological Aerosol: *Staphylococcus aureus* (ATCC 6538).
2. Testing side: Inside of the test specimen was facing towards the challenge aerosol.
3. Test area: 78 cm<sup>2</sup>
4. Flow rate: 28.3 L/min
5. The average plate count results of the positive controls:  $2.4 \times 10^3$  CFU
6. The average plate count results of the negative controls: < 1 CFU
7. CFU = Colony Forming Unit

Remark: This test item was conducted in Caipin Road, Guangzhou Science City, GETDD, Guangzhou, Guangdong.

End of Report

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深圳天祥质量技术服务有限公司广州分公司

Room 02, 1-8/F & Room 01, E101/E201/E301/E401/E501/E601/E701/E801, No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China  
 中国广州经济技术开发区科学城彩频路7号之二第1-8层02房、01房  
 Hengyun Building, 235 Kaifa Ave., Guangzhou Economic & Technological Development District, Guangzhou, China  
 中国广州经济技术开发区开发大道235号恒运大厦3楼  
 Tel: +86 20 8213 9001 Fax: +86 20 8208 9909 Postcode: 510663  
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TTTS - WT20214911



# 检验报告

Test Report

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客户 提供 信息 及 要求 Information Provided by Client	委托单位/地址 Applicant	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China		送样人: Contact	/	
	生产单位/地址 Manufacturer	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China				
	样品信息 Information of Submitted Sample	样品名称: Sample Name	KN95防护口罩 KN95 Protective Respirator	商标: Trademark	KAZE	
		样品总数: Sample Count	45个 45Pieces	号型规格: Size	颜色: Colour	/
	质量等级: Quality Grade	/	安全类别: Safety Category	/		
	产品款号或货号: Style No. or Order No.	2020-07				
	判定标准: Test Standards	GB 2626-2019 呼吸防护 自吸过滤式防颗粒物呼吸器 Respiratory protection-Non- powered air-purifying particle respirator				
样品描述 Test Part Description	1# 白色口罩 White Mask					
检验性质 Test Type	委托检验 Commission Test	样品接收日期 Date of Submission	2020-07-23	报告发布日期 Date of Checking	2020-07-28	
检验日期 Test Date	2020-07-23		到 To	2020-07-28		
执行标准 Test Standards	见附页 See next page(s)					
检验结论 Conclusion	检验结果及符合性见附页。 Test results and compliance refer to next page(s).				检验单位盖章 Stamp of Inspection Unit	
备注 Remarks	客户要求过滤效率测试初始过滤效率, 并按照GB 2626-2019标准判定。 As per client's request that the Filtration Efficiency is required to test initial filtration efficiency, and judged according to the standard GB 2626-2019.					



批准:  
Approver

方倩

审核:  
Checker

王欣

编制:  
Editor

于舒芳



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# 检验报告

Test Report

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclu sions	执行标准/备注 Test Method/ Remarks
1# 白色口罩 White Mask						
呼吸阻力 Respiratory Resistance	呼气阻力 Expiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 191 2: 208 预处理样品 Samples With Pretreatment: 1: 180 2: 187	符合 Pass	GB 2626-2019
	吸气阻力 Inspiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 209 2: 210 预处理样品 Samples With Pretreatment: 1: 188 2: 191		
可燃性 Flammability	续燃时间 Afterflame Time	s	≤5	0	符合 Pass	GB 2626-2019
外观检查 Appearance Inspection	样品表面 Surface of The Sample	/	按标准要求 As per standard requirement	+	符合 Pass	GB 2626-2019
	部件材料和结构 Component Material and Construction	/	按标准要求 As per standard requirement	+		
	部件经过温度湿 度预处理后 The components after the temperature and humidity pretreatment	/	按标准要求 As per standard requirement	+		
	标识和制造商所 提供的各种信息 Label and various information provided by manufacturer	/	按标准要求 As per standard requirement	+		



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# 检验报告

Test Report

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TTTS-WT20214911

检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
过滤效率 Filtration Efficiency (KN95)	氯化钠颗粒物 NaCl Particle	%	≥95.0	初始过滤效率 Initial Filtration Efficiency 未预处理样品 Samples Without Pretreatment: 1: 99.79 2: 99.80 3: 99.81 4: 99.85 5: 99.85 6: 99.85 7: 99.81 8: 99.79 9: 99.82 10: 99.80 11: 99.79 12: 99.82 13: 99.83 14: 99.81 15: 99.83 预处理样品 Samples With Pretreatment: 1: 99.75 2: 99.72 3: 99.73 4: 99.73 5: 99.70	符合 Pass	GB 2626-2019
视野 View	下方视野 View Blow	°	≥35	61	符合 Pass	GB 2890-2009
	双目视野 Binocular View	%	≥65	>65		



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# 检验报告

Test Report

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
头带 Head Harness	/	/	呼吸器的每条头带、带扣及其他调节部件在承受10N,持续10s的拉力时,不应出现滑脱或断裂 Each head harness, buckle and other adjustment components of the respirator should not have slippage or breaking for 10s under 10N loading.	10N负荷持续10秒,头带未出现滑脱、断裂 The head harness have no slippage or breaking for 10s under 10N loading	符合 Pass	GB 2626-2019

表中“+”表示符合标准要求,“X”表示不符合标准要求。

+ Meet the standard requirements, X Not Meet the standard requirements.



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国家服装质量监督检验中心 (天津)

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# 检验报告

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## 样品 Sample





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# 检验报告

Test Report

## 【注意事项】

## POINTS FOR ATTENTION

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- 2.复制报告未重新加盖“检验专用章”无效。  
Copy report is invalid without re-stamp of "special seal for the test report".
- 3.报告无编写、审核、批准人签字无效。  
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Report is invalid if altered.
- 5.检验报告或复制报告未加盖骑缝章无效 (报告页数多于1页时)。  
Report and copy report is invalid without stamp of "Paging Seal" (When the page number more than 1).
- 6.委托检验仅对来样负责,不承担其他连带责任。  
Unless otherwise stated the results shown in this report refer only the sample(s) tested.
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Objection should be issued in 15 days upon receiving the report, overdue opinion is inadmissible.
- 8.未经本机构书面批准,部分复制报告无效。  
Part copy report is invalid without the approval of the written documents of the testing organization.

-----报告结束 End of report-----

注意事项以中文为准The English edition is for reference only

### 天纺标集团检测单位与地址 Tianfangbiao Groups Others Testing Location

天纺标检测认证股份有限公司  
Tianfangbiao Standardization Certification & Testing Co., Ltd.  
国家服装质量监督检验中心 (天津)  
China National Clothing Quality Inspection & Supervision Center (Tianjin)  
国家针织产品质量监督检验中心  
China National Knitted Product Quality Supervision Testing Center  
地址:天津市南开区鹊桥路25号  
Address: No.25, Queqiao Road, Nankai District, Tianjin, China



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TianFangBiao Standardization Certification & Testing Co.,Ltd.

国家服装质量监督检验中心 (天津)

National Clothing Quality Inspection & Supervision Center(Tianjin)

国家针织产品质量监督检验中心

National Knitted Product Quality Inspection & Supervision Center



TTTS - WT20207761



# 检验报告

Test Report

第1页 共7页

客户 提供 信息 及 要求 Information Provided by Client	委托单位/地址 Applicant	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China		送样人: Contact	/	
	生产单位/地址 Manufacturer	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China				
	样品信息 Information of Submitted Sample	样品名称: Sample Name	KN95防护口罩 KN95 Protective Respirator	商标: Trademark	KAZE	
		样品总数: Sample Count	50个 50Pieces	号型规格: Size	颜色: Colour	/
	质量等级: Quality Grade	/	安全类别: Safety Category	/		
	产品款号或货号: Style No. or Order No.	2020-07				
	判定标准: Test Standards	GB 2626-2019 呼吸防护 自吸过滤式防颗粒物呼吸器 Respiratory protection-Non- powered air-purifying particle respirator				
样品描述 Test Part Description	1# 浅灰色口罩 Light Grey Mask 2# 酒红色口罩 Wine Mask 3# 粉色口罩 Pink Mask 4# 浅蓝色口罩 Light Blue Mask 5# 玫红色口罩 Rose Mask 6# 橙色口罩 Orange Mask					
检验性质 Test Type	委托检验 Commission Test	样品接收日期 Date of Submission	2020-07-13	报告发布日期 Date of Checking	2020-07-18	
检验日期 Test Date	2020-07-13		到 To	2020-07-17		
执行标准 Test Standards	见附页 See next page(s)					
检验结论 Conclusion	检验结果及符合性见附页。 Test results and compliance refer to next page(s).				检验单位盖章 Stamp of Inspection Unit	
备注 Remarks	/					



批准:  
Approver

方倩

审核:  
Checker

江秋

编制:  
Editor

于舒荔





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# 检验报告

Test Report

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
1# 浅灰色口罩 Light Grey Mask						
外观检查 Appearance Inspection	样品表面 Surface of The Sample	/	按标准要求 As per standard requirement	+	符合 Pass	GB 2626-2019
	部件材料和结构 Component Material and Construction	/	按标准要求 As per standard requirement	+		
	部件经过温度湿度预处理后 The components after the temperature and humidity pretreatment	/	按标准要求 As per standard requirement	+		
	标识和制造商所提供的各种信息 Label and various information provided by manufacturer	/	按标准要求 As per standard requirement	+		
2# 酒红色口罩 Wine Mask						



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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
过滤效率 Filtration Efficiency (KN95)	氯化钠颗粒物 NaCl Particle	%	≥95.0	初始过滤效率 Initial Filtration Efficiency: 未预处理样品 Samples Without Pretreatment 1: 99.37 2: 99.43 3: 99.38 4: 99.41 5: 99.47 6: 99.49 7: 99.38 8: 99.40 9: 99.33 10: 99.34 11: 99.40 12: 99.33 13: 99.35 14: 99.35 15: 99.40 预处理样品 Samples With Pretreatment: 1: 95.99 2: 96.24 3: 96.52 4: 96.24 5: 95.78	符合 Pass	GB 2626-2019
3# 粉色口罩 Pink Mask						



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# 检验报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
呼吸阻力 Respiratory Resistance	呼气阻力 Expiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 131 2: 135 预处理样品 Samples With Pretreatment: 1: 114 2: 120	符合 Pass	GB 2626-2019
	吸气阻力 Inspiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 139 2: 143 预处理样品 Samples With Pretreatment: 1: 127 2: 121		
4# 浅蓝色口罩 Light Blue Mask						
视野 View	下方视野 View Blow	°	≥35	61	符合 Pass	GB 2890-2009
	双目视野 Binocular View	%	≥65	>65		
5# 玫红色口罩 Rose Mask						
头带 Head Harness	/	/	呼吸器的每条头带、带扣及其他调节部件在承受10N, 持续10s的拉力时, 不应出现滑脱或断裂 Each head harness, buckle and other adjustment components of the respirator should not have slippage or breaking for 10s under 10N loading.	10N负荷持续10秒, 头带未出现滑脱、断裂 The head harness have no slippage or breaking for 10s under 10N loading	符合 Pass	GB 2626-2019
6# 橙色口罩 Orange Mask						



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# 检验报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
可燃性 Flammability	续燃时间 Afterflame Time	s	≤5	0	符合 Pass	GB 2626-2019

表中“+”表示符合标准要求，“X”表示不符合标准要求。

+ Meet the standard requirements, X Not Meet the standard requirements.



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## 样品 Sample





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# 检验报告

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Report is invalid without stamp of "special seal for the test report".
- 2.复制报告未重新加盖“检验专用章”无效。  
Copy report is invalid without re-stamp of "special seal for the test report".
- 3.报告无编写、审核、批准人签字无效。  
Report is invalid without collective signatures by editor, checker and approver.
- 4.检验报告涂改无效。  
Report is invalid if altered.
- 5.检验报告或复制报告未加盖骑缝章无效 (报告页数多于1页时)。  
Report and copy report is invalid without stamp of "Paging Seal" (When the page number more than 1).
- 6.委托检验仅对来样负责,不承担其他连带责任。  
Unless otherwise stated the results shown in this report refer only the sample(s) tested.
- 7.对于检验结果若有异议,应于收到报告之日起十五日内向本机构提出,逾期不予受理。  
Objection should be issued in 15 days upon receiving the report, overdue opinion is inadmissible.
- 8.未经本机构书面批准,部分复制报告无效。  
Part copy report is invalid without the approval of the written documents of the testing organization.

-----报告结束 End of report-----

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### 天纺标集团检测单位与地址 Tianfangbiao Groups Others Testing Location

天纺标检测认证股份有限公司  
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国家针织产品质量监督检验中心  
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# 检验报告

Test Report

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客户提供信息及要求 Information Provided by Client	委托单位/地址 Applicant	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China		送样人: Contact	/	
	生产单位/地址 Manufacturer	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China				
	样品信息 Information of Submitted Sample	样品名称: Sample Name	KN95防护口罩 KN95 Protective Respirator	商标: Trademark	KAZE	
		样品总数: Sample Count	45个 45Pieces	颜色: Colour	/	
	号型规格: Size	折叠型口罩 FOLD MASK	安全类别: Safety Category	/		
	质量等级: Quality Grade	/	产品款号或货号: Style No. or Order No.	2020-07		
	判定标准: Test Standards	GB 2626-2019 呼吸防护 自吸过滤式防颗粒物呼吸器 Respiratory protection-Non-powered air-purifying particle respirator				
样品描述 Test Part Description	1# 口罩Mask-红色Red; 2# 口罩Mask-深蓝色Dark Blue; 3# 口罩Mask-米黄色Beige; 4# 口罩Mask-蓝色Blue; 5# 口罩Mask-紫色Purple; 6# 口罩Mask-深绿色Dark Green					
检验性质 Test Type	委托检验 Commission Test	样品接收日期 Date of Submission	2020-07-23	报告发布日期 Date of Checking	2020-07-29	
检验日期 Test Date	2020-07-23		到 To	2020-07-28		
执行标准 Test Standards	见附页 See next page(s)					
检验结论 Conclusion	检验结果及符合性见附页。 Test results and compliance refer to next page(s).					
备注 Remarks	客户要求过滤效率测试初始过滤效率, 并按照GB 2626-2019标准判定。 As per client's request that the Filtration Efficiency is required to test initial filtration efficiency, and judged according to the standard GB 2626-2019.					

批准:  
Approver

方倩

审核:  
Checker

王秋

编制:  
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# 检验报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
1# 口罩Mask-红色Red						
呼吸阻力 Respiratory Resistance	呼气阻力 Expiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 204 2: 210 预处理样品 Samples With Pretreatment: 1: 174 2: 187	符合 Pass	GB 2626-2019
	吸气阻力 Inspiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 206 2: 209 预处理样品 Samples With Pretreatment: 1: 179 2: 191		
2# 口罩Mask-深蓝色Dark Blue						





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# 检验报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
过滤效率 Filtration Efficiency (KN95)	氯化钠颗粒物 NaCl Particle	%	≥95.0	初始过滤效率 Initial Filtration Efficiency: 未预处理样品 Samples Without Pretreatment: 1: 99.67 2: 99.78 3: 99.77 4: 99.72 5: 99.78 6: 99.76 7: 99.75 8: 99.70 9: 99.78 10: 99.76 11: 99.76 12: 99.79 13: 99.74 14: 99.73 15: 99.75 预处理样品 Samples With Pretreatment: 1: 98.17 2: 98.41 3: 98.06 4: 97.97 5: 97.76	符合 Pass	GB 2626-2019
3#	口罩Mask-米黄色Beige					



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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
外观检查 Appearance Inspection	样品表面 Surface of The Sample	/	按标准要求 As per standard requirement	+	符合 Pass	GB 2626-2019
	部件材料和结构 Component Material and Construction	/	按标准要求 As per standard requirement	+		
	部件经过温度湿度预处理后 The components after the temperature and humidity pretreatment	/	按标准要求 As per standard requirement	+		
	标识和制造商所提供的各种信息 Label and various information provided by manufacturer	/	按标准要求 As per standard requirement	+		
4# 口罩Mask-蓝色Blue						
可燃性 Flammability	续燃时间 Afterflame Time	s	≤5	0	符合 Pass	GB 2626-2019
5# 口罩Mask-紫色Purple						
头带 Head Harness	/	/	呼吸器的每条头带、带扣及其他调节部件在承受10N,持续10s的拉力时,不应出现滑脱或断裂 Each head harness, buckle and other adjustment components of the respirator should not have slippage or breaking for 10s under 10N loading	10N负荷持续10秒,头带未出现滑脱、断裂 The head harness have no slippage or breaking for 10s under 10N loading	符合 Pass	GB 2626-2019



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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
6# 口罩Mask-深绿色Dark Green						
视野 View	下方视野 View Blow	°	≥35	61	符合 Pass	GB 2890-2009
	双目视野 Binocular View	%	≥65	>65		

表中“+”表示符合标准要求，“X”表示不符合标准要求。

+ Meet the standard requirements, X Not Meet the standard requirements.



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## 样品 Sample





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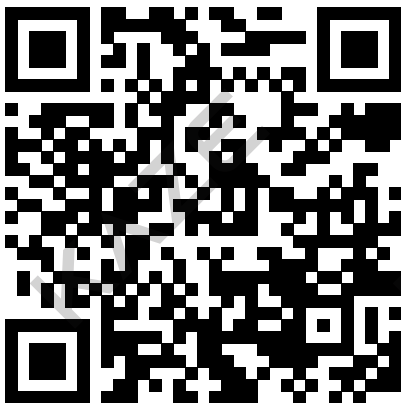
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Report and copy report is invalid without stamp of "Paging Seal" (When the page number more than 1).
- 6.委托检验仅对来样负责,不承担其他连带责任。  
Unless otherwise stated the results shown in this report refer only the sample(s) tested.
- 7.对于检验结果若有异议,应于收到报告之日起十五日内向本机构提出,逾期不予受理。  
Objection should be issued in 15 days upon receiving the report, overdue opinion is inadmissible.
- 8.未经本机构书面批准,部分复制报告无效。  
Part copy report is invalid without the approval of the written documents of the testing organization.

-----报告结束 End of report-----

注意事项以中文为准 The English edition is for reference only

### 天纺标集团检测单位与地址 Tianfangbiao Groups Others Testing Location

天纺标检测认证股份有限公司  
Tianfangbiao Standardization Certification & Testing Co., Ltd.  
国家服装质量监督检验中心 (天津)  
China National Clothing Quality Inspection & Supervision Center (Tianjin)  
国家针织产品质量监督检验中心  
China National Knitted Product Quality Supervision Testing Center  
地址:天津市南开区鹊桥路25号  
Address: No.25, Queqiao Road, Nankai District, Tianjin, China



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国家服装质量监督检验中心(天津)

National Clothing Quality Inspection & Supervision Center(Tianjin)

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# 检验检测报告

Test Report



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客户 提供 信息 及 要求 Information Provided by Client	委托单位/地址 Applicant	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China		送样人: Contact	/	
	生产单位/地址 Manufacturer	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China				
	样品信息 Information of Submitted Sample	样品名称: Sample Name	防护口罩 Protective Respirator	商标: Trademark	KAZE	
		样品总数: Sample Count	50个 50Pieces	号型规格: Size	FOLD MASK KAZE-01	颜色: Colour
	质量等级: Quality Grade	/	安全类别: Safety Category	/		
判定标准: Test Standards	产品款号或货号: Style No. or Order No.	2020-11 GB 2626-2019 呼吸防护 自吸过滤式防颗粒物呼吸器 Respiratory protection-Non-powered air-purifying particle respirator				
样品描述 Test Part Description	1# 口罩Mask-深灰色(Espresso) 2# 口罩Mask-浅杏色(Light Blush) 3# 口罩Mask-浅灰色(Silver Grey) 4# 口罩Mask-米白色(Champagne) 5# 口罩Mask-杏色(Natural Sand) 6# 口罩Mask-黑灰色(Dark Grey) 7# 口罩Mask-黑色(Black) 8# 口罩Mask-黑色十字纹(Black Cross)					
检验性质 Test Type	委托检验 Commission Test	样品接收日期 Date of Submission	2020-11-19	报告发布日期 Date of Checking	2020-11-25	
检验日期 Test Date	2020-11-19		到 To	2020-11-24 (e)		
执行标准 Test Standards	见附页 See next page(s)					
检验结论 Conclusion	检验结果及符合性见附页。 Test results and compliance refer to next page(s).				检验单位盖章 Stamp of Inspection Unit	
备注 Remarks	客户要求过滤效率测试初始过滤效率, 并按GB 2626-2019标准判定。 As per client's request, the initial filtration efficiency is tested for Filtration Efficiency, and judged according to the standard GB 2626-2019.					



批准:  
Approver

单学雷

审核:  
Checker

王秋

编制:  
Editor

于舒芳



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# 检验检测报告

Test Report

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
1# 口罩Mask-深灰色(Espresso)						
可燃性 Flammability	续燃时间 Afterflame Time	s	≤5	0	符合 Pass	GB 2626-2019
2# 口罩Mask-浅杏色(Light Blush)						
过滤效率 Filtration Efficiency (KN95)	氯化钠颗粒物 NaCl Particle	%	≥95.0	初始过滤效率 Initial Filtration Efficiency: 未预处理样品 Samples Without Pretreatment: 1: 99.88 2: 99.81 3: 99.83 4: 99.86 5: 99.81 6: 99.91 7: 99.77 8: 99.82 9: 99.87 10: 99.80 11: 99.86 12: 99.87 13: 99.81 14: 99.88 15: 99.87 预处理样品 Samples With Pretreatment: 1: 99.77 2: 99.66 3: 99.56 4: 99.69 5: 99.59	符合 Pass	GB 2626-2019
3# 口罩Mask-浅灰色(Silver Grey)						



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# 检验检测报告

Test Report

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
呼吸阻力 Respiratory Resistance	呼气阻力 Expiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 159 2: 159 预处理样品 Samples With Pretreatment: 1: 155 2: 121	符合 Pass	GB 2626-2019
	吸气阻力 Inspiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 163 2: 168 预处理样品 Samples With Pretreatment: 1: 164 2: 137		
4# 口罩Mask-米白色(Champagne)						
呼吸阻力 Respiratory Resistance	呼气阻力 Expiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 179 2: 170 预处理样品 Samples With Pretreatment: 1: 161 2: 153	符合 Pass	GB 2626-2019
	吸气阻力 Inspiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 196 2: 193 预处理样品 Samples With Pretreatment: 1: 171 2: 162		
5# 口罩Mask-杏色 (Natural Sand)						





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# 检验检测报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
外观检查 Appearance Inspection	样品表面 Surface of The Sample	/	按标准要求 As per standard requirement	+	符合 Pass	GB 2626-2019
	部件材料和结构 Component Material and Construction	/	按标准要求 As per standard requirement	+		
	部件经过温度湿度预处理后 The components after the temperature and humidity pretreatment	/	按标准要求 As per standard requirement	+		
	标识和制造商所提供的各种信息 Label and various information provided by manufacturer	/	按标准要求 As per standard requirement	+		
6# 口罩Mask- 黑灰色(Dark Grey)						
视野 View	下方视野 View Blow	°	≥35	61	符合 Pass	GB 2890-2009
	双目视野 Binocular View	%	≥65	>65		
7# 口罩Mask- 黑色 (Black)						
视野 View	下方视野 View Blow	°	≥35	61	符合 Pass	GB 2890-2009
	双目视野 Binocular View	%	≥65	>65		



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# 检验检测报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclu sions	执行标准/备注 Test Method/ Remarks
头带 Head Harness	/	/	呼吸器的每条头带、带扣及其他调节部件在承受10N,持续10s的拉力时,不应出现滑脱或断裂 Each head harness、buckle and other adjustment components of the respirator should not have slippage or breaking for 10s under 10N loading.	10N负荷持续10秒,头带未出现滑脱、断裂 The head harness have no slippage or breaking for 10s under 10N loading	符合 Pass	GB 2626-2019
8# 口罩Mask- 黑色十字纹(Black Cross)						
可燃性 Flammability	续燃时间 Afterflame Time	s	≤5	0	符合 Pass	GB 2626-2019

表中“+”为符合标准要求,“×”表示不符合标准要求。

+ Meet the standard requirements, X Not Meet the standard requirements.



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# 检验检测报告

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## 样品 Sample





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# 检验检测报告

Test Report

## 【注意事项】

## POINTS FOR ATTENTION

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1. 检验报告无“检验专用章”无效。  
Report is invalid without stamp of "special seal for the test report".
2. 复制报告未重新加盖“检验专用章”无效。  
Copy report is invalid without re-stamp of "special seal for the test report".
3. 报告无编写、审核、批准人签字无效。  
Report is invalid without collective signatures by editor, checker and approver.
4. 检验报告涂改无效。  
Report is invalid if altered.
5. 检验报告或复制报告未加盖骑缝章无效 (报告页数多于1页时)。  
Report and copy report is invalid without stamp of "Paging Seal" (When the page number more than 1).
6. 委托检验仅对来样负责, 不承担其他连带责任。  
Unless otherwise stated the results shown in this report refer only the sample(s) tested.
7. 对于检验结果若有异议, 应于收到报告之日起十五日内向本机构提出, 逾期不予受理。  
Objection should be issued in 15 days upon receiving the report, overdue opinion is inadmissible.
8. 未经本机构书面批准, 部分复制报告无效。  
Part copy report is invalid without the approval of the written documents of the testing organization.

-----报告结束 End of report-----

注意事项以中文为准 The English edition is for reference only

### 天纺标集团检测单位与地址 Tianfangbiao Groups Others Testing Location

天纺标检测认证股份有限公司 Tianfangbiao Standardization Certification & Testing Co., Ltd. 国家服装质量监督检验中心 (天津) China National Clothing Quality Inspection & Supervision Center (Tianjin) 国家针织产品质量监督检验中心 China National Knitted Product Quality Supervision Testing Center 地址: 天津市南开区鹊桥路25号 Address: No.25, Queqiao Road, Nankai District, Tianjin, China
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TTTS-WF21000223



# 检验检测报告

Test Report

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客户提供信息及要求 Information Provided by Client	委托单位/地址 Applicant	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China		送样人: Contact	/	
	生产单位/地址 Manufacturer	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China				
	样品信息 Information of Submitted Sample	样品名称: Sample Name	防护口罩 Protective Respirator	商标: Trademark	KAZE	
		样品总数: Sample Count	50个 50Pieces	颜色: Colour	/	
	号型规格: Size	FOLD MASK KAZE-01	安全类别: Safety Category	/		
	质量等级: Quality Grade	/	产品款号或货号: Style No. or Order No.	2021-01		
判定标准: Test Standards	GB 2626-2019 呼吸防护 自吸过滤式防颗粒物呼吸器 Respiratory protection-Non-powered air-purifying particle respirator					
样品描述 Test Part Description	1# 口罩Mask-大红色Racing Red 2# 口罩Mask-深蓝色 Royal Blue 3# 口罩Mask-橘色 Citrus Orange 4# 口罩Mask-棕色 Maroon 5# 口罩Mask-深绿色Forest Pine					
检验性质 Test Type	委托检验 Commission Test	样品接收日期 Date of Submission	2021-01-13	报告发布日期 Date of Checking	2021-01-19	
检验日期 Test Date	2021-01-13		到 To	2021-01-18		
执行标准 Test Standards	见附页 See next page(s)					
检验结论 Conclusion	检验结果及符合性见附页。 Test results and compliance refer to next page(s).				检验单位盖章 Stamp of Inspection Unit	
备注 Remarks	/					



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Approver

单学菁

审核:  
Checker

张新

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鲍子宇



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National Knitted Product Quality Inspection & Supervision Center

# 检验检测报告

Test Report

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
1#	口罩Mask-大红色Racing Red					
过滤效率 Filtration Efficiency (KN95)	氯化钠颗粒物 NaCl Particle	%	≥95.0	加载过滤效率: Loading Filtration Efficiency: 未预处理样品 Samples Without Pretreatment: 1: 99.95 2: 99.97 3: 99.98 4: 99.90 5: 99.94 6: 99.95 7: 99.83 8: 99.80 9: 99.86 10: 99.96 11: 99.89 12: 99.96 13: 99.79 14: 99.81 15: 99.80 预处理样品 Samples With Pretreatment: 1: 99.52 2: 99.59 3: 99.65 4: 99.67 5: 99.61	符合 Pass	GB 2626-2019
2#	口罩Mask-深蓝色 Royal Blue					



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# 检验检测报告

Test Report

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
外观检查 Appearance Inspection	样品表面 Surface of The Sample	/	按标准要求 As per standard requirement	+	符合 Pass	GB 2626-2019
	部件材料和结构 Component Material and Construction	/	按标准要求 As per standard requirement	+		
	部件经过温度湿度预处理后 The components after the temperature and humidity pretreatment	/	按标准要求 As per standard requirement	+		
	标识和制造商所提供的各种信息 Label and various information provided by manufacturer	/	按标准要求 As per standard requirement	+		
3# 口罩Mask-橘色 Citrus Orange						
呼吸阻力 Respiratory Resistance	呼气阻力 Expiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 196 2: 193 预处理样品 Samples With Pretreatment: 1: 164 2: 162	符合 Pass	GB 2626-2019
	吸气阻力 Inspiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 200 2: 199 预处理样品 Samples With Pretreatment: 1: 175 2: 170		
4# 口罩Mask-棕色 Maroon						



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# 检验检测报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
视野 View	下方视野 View Blow	°	≥35	61	符合 Pass	GB 2890-2009
	双目视野 Binocular View	%	≥65	>65		
5# 口罩Mask-深绿色 Forest Pine						
可燃性 Flammability	续燃时间 Afterflame Time	s	≤5	0	符合 Pass	GB 2626-2019
头带 Head Harness	/	/	呼吸器的每条头带、带扣及其他调节部件在承受10N, 持续10s的拉力时, 不应出现滑脱或断裂 Each head harness, buckle and other adjustment components of the respirator should not have slippage or breaking for 10s under 10N loading.	10N负荷持续10秒, 头带未出现滑脱、断裂 The head harness have no slippage or breaking for 10s under 10N loading	符合 Pass	GB 2626-2019

表中“+”为符合标准要求, “×”表示不符合标准要求。

+ Meet the standard requirements, X Not Meet the standard requirements.





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## 样品 Sample





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客户提供信息及要求 Information Provided by Client	委托单位/地址 Applicant	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China		送样人: Contact	/
	生产单位/地址 Manufacturer	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China			
	样品信息 Information of Submitted Sample	样品名称: Sample Name	防护口罩 Protective Respirator	商标: Trademark	KAZE
		样品总数: Sample Count	115个 115Pieces		
		号型规格: Size or Specification	FOLD MASK KAZE-01	颜色: Colour	/
		质量等级: Quality Grade	/	安全类别: Safety Category	/
		产品款号或货号: Style No. or Order No.	2021-04		
判定标准: Test Standards	GB 2626-2019 呼吸防护 自吸过滤式防颗粒物呼吸器 Respiratory protection-Non-powered air-purifying particle respirator				
样品描述 Test Part Description	1# 口罩Mask-蓝色 Cobalt Blue 2# 口罩Mask-紫色 Purple Berry 3# 口罩Mask-深绿色 Spearmint 4# 口罩Mask-浅绿色 Key Lime 5# 口罩Mask-粉红色 Bubblegum 6# 口罩Mask-黑色 Onyx 7# 口罩Mask-白色 Ivory				
检验性质 Test Type	委托检验 Commission Test	样品接收日期 Date of Submission	2021-04-20	报告发布日期 Date of Checking	2021-04-26
检验日期 Test Date	2021-04-20		到 To	2021-04-26	
执行标准 Test Standards	见附页 See next page(s)				
检验结论 Conclusion	检验结果及符合性见附页。 Test results and compliance refer to next page(s).				检验单位盖章 Stamp of Inspection Unit
备注 Remarks	/				



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# 天纺标检测认证股份有限公司

TianFangBiao Standardization Certification & Testing Co.,Ltd.

国家服装质量监督检验中心 (天津)

National Clothing Quality Inspection & Supervision Center(Tianjin)

国家针织产品质量监督检验中心

National Knitted Product Quality Inspection & Supervision Center

# 检验检测报告

Test Report

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
1# 口罩Mask-蓝色 Cobalt Blue						
外观检查 Appearance Inspection	样品表面 Surface of The Sample	/	按标准要求 As per standard requirement	+	符合 Pass	GB 2626-2019
	部件材料和结构 Component Material and Construction	/	按标准要求 As per standard requirement	+		
	部件经过温度湿度预处理后 The components after the temperature and humidity pretreatment	/	按标准要求 As per standard requirement	+		
	标识和制造商所提供的各种信息 Label and various information provided by manufacturer	/	按标准要求 As per standard requirement	+		
2# 口罩Mask-紫色 Purple Berry						



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# 检验检测报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
过滤效率 Filtration Efficiency (KN95)	氯化钠颗粒物 NaCl Particle	%	≥95.0	未预处理样品 Samples Without Pretreatment: 1: 99.76 2: 99.70 3: 99.61 4: 99.68 5: 99.87 6: 99.74 7: 99.65 8: 99.86 9: 99.74 10: 99.73 11: 99.76 12: 99.98 13: 99.95 14: 99.97 15: 99.88 预处理样品 Samples With Pretreatment: 1: 99.50 2: 99.36 3: 99.44 4: 99.47 5: 99.33	符合 Pass	GB 2626-2019
3# 口罩Mask-深绿色 Spearmint						
呼吸阻力 Respiratory Resistance	呼气阻力 Expiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 113 2: 116 预处理样品 Samples With Pretreatment: 1: 115 2: 117	符合 Pass	GB 2626-2019
	吸气阻力 Inspiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 121 2: 120 预处理样品 Samples With Pretreatment: 1: 122 2: 121		
4# 口罩Mask-浅绿色 Key Lime						



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# 检验检测报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
可燃性 Flammability	续燃时间 Afterflame Time	s	≤5	0	符合 Pass	GB 2626-2019
5# 口罩Mask-粉红色 Bubblegum						
视野 View	下方视野 View Blow	°	≥35	61	符合 Pass	GB 2890-2009
	双目视野 Binocular View	%	≥65	>65		
6# 口罩Mask-黑色 Onyx						
可燃性 Flammability	续燃时间 Afterflame Time	s	≤5	0	符合 Pass	GB 2626-2019
7# 口罩Mask-白色 Ivory						
头带 Head Harness	/	/	呼吸器的每条头带、带扣及其他调节部件在承受10N,持续10s的拉力时,不应出现滑脱或断裂 Each head harness, buckle and other adjustment components of the respirator should not have slippage or breaking for 10s under 10N loading	10N负荷持续10秒,头带未出现滑脱、断裂 The head harness have no slippage or breaking for 10s under 10N loading	符合 Pass	GB 2626-2019

表中“+”表示符合标准要求,“X”表示不符合标准要求。

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## 样品 Sample





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# 检验检测报告

Test Report

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客户提供信息及要求 Information Provided by Client	委托单位/地址 Applicant	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China			送样人: Contact /
	生产单位/地址 Manufacturer	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China			电话: Tel. /
	样品信息 Information of Submitted Sample	样品名称: Sample Name	防护口罩 Protective Respirator	商标: Trademark	KAZE
		样品总数: Sample Count	100个 100Pieces	颜色: Colour	/
	号型规格: Size or Specification	折叠型口罩 FOLD MASK KAZE-01	安全类别: Safety Category	/	
	质量等级: Quality Grade	/	产品款号或货号: Style No. or Order No.	2021-07	
判定标准: Test Standards	GB 2626-2019 呼吸防护 自吸过滤式防颗粒物呼吸器 Respiratory protection-Non-powered air-purifying particle respirator (KN95)				
样品描述 Test Part Description	1# 口罩Mask-绿色花纹- photosynthesis 2# 口罩Mask-棕紫色花纹- dreamweaver 3# 口罩Mask-蓝色花纹- seaglass 4# 口罩Mask-红色花纹- sweet nectar 5# 口罩Mask-橙色花纹- bloomington				
检验性质 Test Type	委托检验 Commission Test	样品接收日期 Date of Submission	2021-07-15	报告发布日期 Date of Checking	2021-07-20
检验日期 Test Date	2021-07-15		到 To	2021-07-20	
执行标准 Test Standards	见附页 See next page(s)				
检验结论 Conclusion	检验结果及符合性见附页。 Test results and compliance refer to next page(s). 检验单位盖章 Stamp of Inspection Unit				
备注 Remarks	/				



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# 检验检测报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclu sions	执行标准/备注 Test Method/ Remarks
1# 口罩Mask-绿色花纹- photosynthesis						
外观检查 Appearance Inspection	样品表面 Surface of The Sample	/	按标准要求 As per standard requirement	+	符合 Pass	GB 2626-2019
	部件材料和结构 Component Material and Construction	/	按标准要求 As per standard requirement	+		
	部件经过温度湿 度预处理后 The components after the temperature and humidity pretreatment	/	按标准要求 As per standard requirement	+		
	标识和制造商所 提供的各种信息 Label and various information provided by manufacturer	/	按标准要求 As per standard requirement	+		
2# 口罩Mask-棕紫色花纹- dreamweaver						





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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
过滤效率 Filtration Efficiency (KN95)	氯化钠颗粒物 NaCl Particle	%	≥95.0	未预处理样品 Samples Without Pretreatment 1: 99.98 2: 99.95 3: 99.96 4: 99.98 5: 99.97 6: 99.98 7: 99.96 8: 99.97 9: 99.98 10: 99.98 11: 99.97 12: 99.98 13: 99.96 14: 99.97 15: 99.98 预处理样品 Samples With Pretreatment 1: 99.93 2: 99.91 3: 99.92 4: 99.93 5: 99.92	符合 Pass	GB 2626-2019
3# 口罩Mask-蓝色花纹- seaglass						
呼吸阻力 Respiratory Resistance	呼气阻力 Expiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment 1: 118 2: 129 预处理样品 Samples With Pretreatment 1: 103 2: 108	符合 Pass	GB 2626-2019
	吸气阻力 Inspiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment 1: 141 2: 146 预处理样品 Samples With Pretreatment 1: 122 2: 120		
4# 口罩Mask-红色花纹- sweet nectar						



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# 检验检测报告

Test Report

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
视野 View	下方视野 View Blow	°	≥35	61	符合 Pass	GB 2890-2009
	双目视野 Binocular View	%	≥65	>65		
头带 Head Harness	/	/	呼吸器的每条头带、带扣及其他调节部件在承受10N,持续10s的拉力时,不应出现滑脱或断裂 Each head harness, buckle and other adjustment components of the respirator should not have slippage or breaking for 10s under 10N loading.	10N负荷持续10秒,头带未出现滑脱、断裂 The head harness have no slippage or breaking for 10s under 10N loading	符合 Pass	GB 2626-2019
5# 口罩Mask-橙色花纹- bloomington						
可燃性 Flammability	续燃时间 Afterflame Time	s	≤5	0	符合 Pass	GB 2626-2019

表中“+”为符合标准要求,“×”表示不符合标准要求。

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# 检验检测报告

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## 样品 Sample





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TTTS-FH21002650



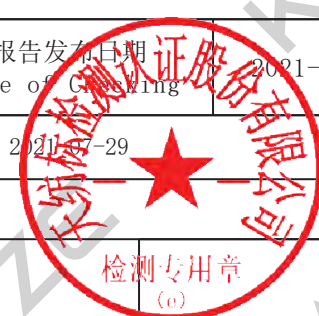
# 检验检测报告

Test Report

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客户提供信息及要求 Information Provided by Client	委托单位/地址 Applicant	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China			送样人: Contact /
	生产单位/地址 Manufacturer	惠州博文制造有限公司 Huizhou Bowen Manufacturing Limited 广东省惠州市博罗县园洲镇下南村新南一路 Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P. R. China			电话: Tel. /
	样品信息 Information of Submitted Sample	样品名称: Sample Name	防护口罩 Protective Respirator	商标: Trademark	KAZE
		样品总数: Sample Count	100个 100Pieces	颜色: Colour	/
	号型规格: Size or Specification	折叠型口罩 FOLD MASK KAZE-01	安全类别: Safety Category	/	
	质量等级: Quality Grade	/	产品款号或货号: Style No. or Order No.	2021-07	
判定标准: Test Standards	GB 2626-2019 呼吸防护 自吸过滤式防颗粒物呼吸器 Respiratory protection-Non-powered air-purifying particle respirator				
样品描述 Test Part Description	见第2页 See Page 2				
检验性质 Test Type	委托检验 Commission Test	样品接收日期 Date of Submission	2021-07-24	报告发布日期 Date of Issuing	2021-07-30
检验日期 Test Date	2021-07-24		到 To	2021-07-29	
执行标准 Test Standards	见附页 See next page(s)				
检验结论 Conclusion	检验结果及符合性见附页。 Test results and compliance refer to next page(s).			检测专用章 (e)	
备注 Remarks	/				
	检验单位盖章 Stamp of Inspection Unit				



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# 检验检测报告

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## 样品描述 Test Part Description

- 01# 口罩Mask-浅紫色-Light Purple
- 02# 口罩Mask-浅绿色-Light Green
- 03# 口罩Mask-紫色-Purple
- 04# 口罩Mask-蓝色-Blue
- 05# 口罩Mask-棕色-Brown
- 06# 口罩Mask-黄色-Yellow
- 07# 口罩Mask-粉色-Pink
- 08# 口罩Mask-红色-Red
- 09# 口罩Mask-浅蓝色-Light Blue
- 10# 口罩Mask-绿色-Green



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# 检验检测报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
01# 口罩Mask-浅紫色-Light Purple						
可燃性 Flammability	续燃时间 Afterflame Time	s	≤5	0	符合 Pass	GB 2626-2019
02# 口罩Mask-浅绿色-Light Green						
呼吸阻力 Respiratory Resistance	呼气阻力 Expiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 83 2: 95 预处理样品 Samples With Pretreatment: 1: 81 2: 78	符合 Pass	GB 2626-2019
	吸气阻力 Inspiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 98 2: 108 预处理样品 Samples With Pretreatment: 1: 93 2: 89		
03# 口罩Mask-紫色- Purple						



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# 检验检测报告

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
过滤效率 Filtration Efficiency (KN95)	氯化钠颗粒物 NaCl Particle	%	≥95.0	未预处理样品 Samples Without Pretreatment: 1: 99.98 2: 99.98 3: 99.97 4: 99.98 5: 99.97 6: 99.98 7: 99.98 8: 99.98 9: 99.98 10: 99.98 11: 99.98 12: 99.97 13: 99.98 14: 99.98 15: 99.98 预处理样品 Samples With Pretreatment: 1: 99.95 2: 99.96 3: 99.93 4: 99.95 5: 99.93	符合 Pass	GB 2626-2019
04#	口罩Mask-蓝色-Blue					
呼吸阻力 Respiratory Resistance	呼气阻力 Expiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 99 2: 91 预处理样品 Samples With Pretreatment: 1: 94 2: 80	符合 Pass	GB 2626-2019
	吸气阻力 Inspiratory Resistance	Pa	≤210	未预处理样品 Samples Without Pretreatment: 1: 114 2: 105 预处理样品 Samples With Pretreatment: 1: 102 2: 91		
05#	口罩Mask-棕色- Brown					



中国认可  
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检测  
TESTING  
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# 天纺标检测认证股份有限公司

TianFangBiao Standardization Certification & Testing Co., Ltd.

国家服装质量监督检验中心 (天津)

National Clothing Quality Inspection & Supervision Center(Tianjin)

国家针织产品质量监督检验中心

National Knitted Product Quality Inspection & Supervision Center

# 检验检测报告

Test Report

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检测项目 Test Items	项目描述 Description	单位 Unit	标准值 Standard Requirement	实测值 Results	评价 Conclusions	执行标准/备注 Test Method/ Remarks
外观检查 Appearance Inspection	样品表面 Surface of The Sample	/	按标准要求 As per standard requirement	+	符合 Pass	GB 2626-2019
	部件材料和结构 Component Material and Construction	/	按标准要求 As per standard requirement	+		
	部件经过温度湿度预处理后 The components after the temperature and humidity pretreatment	/	按标准要求 As per standard requirement	+		
	标识和制造商所提供的各种信息 Label and various information provided by manufacturer	/	按标准要求 As per standard requirement	+		
06# 口罩Mask-黄色- Yellow						
视野 View	下方视野 View Blow	°	≥35	61	符合 Pass	GB 2890-2009
	双目视野 Binocular View	%	≥65	>65		
07# 口罩Mask-粉色-Pink						
视野 View	下方视野 View Blow	°	≥35	61	符合 Pass	GB 2890-2009
	双目视野 Binocular View	%	≥65	>65		
08# 口罩Mask-红色- Red						
可燃性 Flammability	续燃时间 Afterflame Time	s	≤5	0	符合 Pass	GB 2626-2019
09# 口罩Mask-浅蓝色-Light Blue						





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头带 Head Harness	/	/	呼吸器的每条头带、带扣及其他调节部件在承受10N,持续10s的拉力时,不应出现滑脱或断裂 Each head harness、buckle and other adjustment components of the respirator should not have slippage or breaking for 10s under 10N loading	10N负荷持续10秒,头带未出现滑脱、断裂 The head harness have no slippage or breaking for 10s under 10N loading	符合 Pass	GB 2626-2019
10# 口罩Mask-绿色- Green						
视野 View	下方视野 View Blow	°	≥35	61	符合 Pass	GB 2890-2009
	双目视野 Binocular View	%	≥65	>65		

表中“+”为符合标准要求,“×”表示不符合标准要求。  
+ Meet the standard requirements, X Not Meet the standard requirements.



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样品 Sample



## Material Safety Data Sheet (MSDS)

### 1 Identification of the substance/mixture and of the company/undertaking

- .Product name: KAZE Protective Respirator
- .Product Model/Type: KAZE-01
- .Relevant identified uses -Main use category: Daily respiratory protection
- .Manufacturer/Supplier: Huizhou Bowen Manufacturing Limited
- .Address: Xinnan 1st Road, Xianan Village, Yuanzhou Town, Boluo County, Huizhou City, Guangdong Province, P.R.China
- .Tel: +86-752-5895333
- .Fax: +86-752-5895330
- .E-Mail: min\_liao@midasprinting.com
- .Contact: Liao Min
- .Emergency Telephone Number: +86-158 1644 7685

### 2 Hazards identification

- .NFPA ratings (scale 0 - 4)



Health = 0; Fire = 1; Reactivity = 0

- .Classification of the substance or mixture
- .Classification according to GHS : Not classified as dangerous goods.
- .Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.
- .Classification according to Regulation 29 CFR 1910.1200:  
The product is not classified according to OSHA Hazard Communication Standard (29 CFR 1910.1200).
- .Labelling according to Regulation (EC) No 1272/2008 and GHS: Not applicable.
- .Hazard pictograms and Signal word: Not applicable.
- .Emergency Overview: Irritating vapors to respiratory system and eyes may form when product is processing at high temperatures or burning. Molten or heating material in skin contact can cause severe burns.
- .Potential Acute Health Effects:
  - .Eyes: Under normal circumstances products is no eye contact hazard.  
Heated or burning product: Vapors or fume formed may be irritating to the eye when product is heating or burning.
  - .Skin: Normally no known acute effects of this product resulting from skin contact. Avoid physical damage that may result from contact with the steel wire, exposure to any chemical should be kept to a minimum.  
Heat melted or burning material: Skin contact can cause serious thermal burns.
  - .Inhalation: Negligible at room temperature. Irritating vapors or fume can be irritating to the upper respiratory tract. when the product is processing at high temperatures or burning.
  - .Ingestion: This products is not toxic, and normally the product is not easy to ingested.
- .Potential Chronic Health Effects:
  - .CARCINOGENIC EFFECTS: This material is not a carcinogen. Classified NONE by NTP, OSHA and by IARC.



**.MUTAGENIC AND TERATOGENIC EFFECTS:** Not available.

**.Other hazards:** No information available.

### 3 Composition/information on ingredients

**.Description:** Mixture of substances as per client submission listed below with additions.

Components Name	CAS Number	Weight Percent (%)
Colored Non-woven fabrics (PP)	9003-07-0	16%
Melt-blown fabric (PP)	9003-07-0	22%
Hot air cotton	-- -- --	12%
Skin friendly non-woven fabric (PP)	9003-07-0	10%
Ear band (Spandex)	-- -- --	22%
Adjustable elastic strap(PP)	9003-07-0	3%
Nose Bridge (PE)	9002-88-4	8%
Nose Bridge (Steel wire)	7439-89-6	
Nose foam	-- -- --	7%

### 4 First aid measures

**In general, there is no danger of contact with this product. If necessary according to the following first aid measures**

**.After inhalation:** In general the material is not expected to present an inhalation hazard. If inhaling the combustion smoke, leave the site to the fresh air, keep the respiratory tract open, If dyspnea occurs, seek medical attention with oxygen transfusion.

**.After skin contact:** Generally no skin contact hazards, Cool skin rapidly if contacted with molten product.

Obtain medical attention for thermal burn and other physical damage.

**.After eye contact:** Generally no risk of eye contact, The usual measures is flush eyes with plenty of water for a few minutes, occasionally lifting the upper and lower eyelids.

**.After swallowing:** Don not eat anything, If symptoms persist consult doctor.

**.Most important symptoms and effects, both acute and delayed:** No specific symptoms known.

**.Indication of any immediate medical attention and special treatment needed:** No special treatment required.

### 5 Fire-fighting measures

**.Suitable Extinguishing Media:** Water, CO2, Dry Chemicals, Foam-Fog..

**.Unsuitable extinguishing media:** Not available.

**.Special hazards arising from the substance or mixture:** Dense smoke emitted when burned without sufficient oxygen.

Powder or dust dispersed in the air is at risk of combustion and explosion.

**.Hazardous decomposition products in case of fire:** Heating or burning will release toxic gases or fumes.

**.Firefighters protective equipment and protection measures:** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents Avoid breathing fire gases or vapors.

## 6 Accidental release measures

- .Personal precautions, protective equipment and emergency procedures:** For personal protection, see Section 8.
- .Measures for environmental protection:** Do not allow much product to reach sewage system or any water course.
- .Methods and material for containment and cleaning up:** This product is solid, Small leak is meaningless,where have scattered on the ground only need to clean up it, Scrap should be reclaimed for recycling. The recycling personnel should take the corresponding personal protection.

## 7 Handling and storage

- .Precautions for safe handling:** Handling of product may form nuisance dust. Protect personnel. Pneumatic material handling and processing equipment may generate dust of sufficiently small particle size that. Dust accumulations should be controlled through a comprehensive dust control program that includes, but is not limited to, source capture, inspection and repair of equipment, routine housekeeping and employee training in hazards.
- .Conditions for safe storage, including any incompatibilities:** Keep in a cool and dry place. Combustible materials should be stored away from extreme heat. The storage area shall be equipped with fire extinguishing devices.

## 8 Exposure controls/personal protection

- .Control parameters:** Not available.
- .Appropriate engineering controls:** Handling of these products need keep good ventilation.
- .Respiratory Protection:** No special respiratory protection is required for use of these products. If respiratory protection is needed, use only protection authorized in the U.S. State or EU Standard.
- .Body Protection:** No special protective clothing is required.
- .Protective Gloves:** Unnecessary, When need choose rubber gloves or other insulated gloves.
- .Eye Protection:** Unnecessary, When necessary wear chemical goggles or face shield.

## 9 Physical and chemical properties

<b>.General Information</b>	
<b>Form:</b>	Solid
<b>Color:</b>	Maroon; Forest Pine; Sweet Pea; Rose Quartz; Sandy Beige; Racing Red; Citrus Orange; Fuchsia; Ultraviolet; Royal Blue; Power Blue; Dove Grey.
<b>Odor:</b>	Odorless
<b>.Change in condition</b>	
<b>Melting point /Melting range:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>.Density:</b>	
<b>Relative density:</b>	<1 (Water=1)
<b>Vapor density:</b>	Not available
<b>.Solubility in/Miscibility with</b>	
<b>Water:</b>	Insoluble
<b>.PH-Value:</b>	Not available

**10 Stability and reactivity**

- .Reactivity and Chemical Stability: Stable under normal temperatures and pressures.*
- .Possibility of hazardous reactions: Will not occur.*
- .Conditions to Avoid: Avoid high temperature and fire source or contact with hazardous chemicals.*
- .Incompatible Materials: No further relevant information available.*
- .Hazardous decomposition Products: Not applicable.*

**11 Toxicological information**

- .Toxicity to Animals:*
  - LD50: Not available.*
  - LC50: Not available.*
- .Chronic Effects on Humans: No further relevant information available.*
- .Other Toxic Effects on Humans: None*

**12 Ecological information**

- .Ecotoxicity: May cause long-term adverse effects in the environment.*
- .Persistence and degradability: Not easily degradable.*
- .Bioaccumulative potential: No further relevant information available.*
- .Mobility in soil: No further relevant information available.*
- .Other adverse effects: No further relevant information available.*

**13 Disposal considerations**

- .Product: Must be disposed of in accordance with applicable Federal, state and local regulations.*
- .Recommendation: Recycling if possible, not be disposed together with household garbage.*
- .Uncleaned packaging: Recommendation Disposal must be made according to official regulations.*

**14 Transport information**

- .UN Proper Shipping Name: Not applicable.*
- .UN Number: Not applicable.*
- .Packing Group: Not applicable.*
- .Marine Pollutant: Not available.*
- .Special Provisions for Transport: Not applicable.*
- .DOT Classification: Not a DOT controlled material (United States).*
- .TDG Classification: Not controlled under TDG.*
- .ADR/RID Classification: Not controlled under ADR.*
- .IMO/IMDG Classification: Not controlled under IMDG.*
- .ICAO/IATA Classification: Not controlled under IATA.*

**15 Regulatory information**

*.Safety, health and environmental regulations/legislation specific for the substance or mixture*

*.TSCA inventory: Most Components are listed as commercial status active on the TSCA. And exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).*

*.WHMIS: Not controlled under WHMIS.*

*.California Prop.65:There are no Proposition 65 chemicals present in this products levels that would require a warning under the California Safe Drinking Water and Toxic Enforcement Act.*

*.REACH Regulation List of Substances of very high concern (SVHC): None of the ingredients is listed.*

*.Chemical safety assessment: A Chemical Safety Assessment has not been carried out.*

**16 Other information**

*The contents and format of this MSDS Comprehensive reference with ISO Commission Directive ISO11014:2009, GHS, EU Regulation EC No 1272/2008 (CLP) And OSHA Hazard Communication Standard 29 CFR 1910.1200 (g).*

**DISCLAIMER OF LIABILITY**

*The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.*

**• Abbreviations and acronyms:**

*NFPA: U.S. National Fire Protection Association*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals.*

*CLP: Classification, labeling and packaging.*

*NTP: U.S. National Toxicology Program.*

*OSHA: Occupational safety and health administration.*

*IARC: International agency for research on cancer.*

*CAS: Chemical Abstracts Service (division of the American Chemical Society).*

*ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.*

*RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.*

*IMDG: International Maritime Code for Dangerous Goods.*

*IATA: International Air Transport Association.*

*ICAO: International Civil Aviation Organization.*

*TDG: Transportation of Dangerous Goods Program.*

*DOT: U.S. Department of Transportation.*

*ACGIH: American Conference of Governmental Industrial Hygienists.*

*TSCA: Toxic Substances Control Act.*

*LC50: Lethal concentration, 50 percent.*

*LD50: Lethal dose, 50 percent.*

Sample photo:



\*\*\*\*\*The End\*\*\*\*\*