

SGS 检测报告

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检测结果及评判

序号	检测项目及测试方法	单位	标准要求	检测结果		单项评判
				试样 1	试样 2	
1.	通气阻力# (T/CTCA 7-2019,6.6)	Pa	≤80	试样 1	35.3	符合
				试样 2	34.3	
				试样 3	34.3	
2.	细菌过滤效率(BFE)* (YY 0469-2011, 5.6.1)	%	≥95	试样 1	99.0	符合
				试样 2	98.8	
				试样 3	98.8	
3.	颗粒过滤效率(PFE)* (YY 0469-2011, 5.6.2)	%	≥80	试样 1	98.4	符合
				试样 2	98.6	
				试样 3	98.4	
4.	甲醛含量 (GB/T 2912.1-2009) 检出限=20mg/kg	mg/kg	≤20	未检出		符合
5.	pH值 (GB/T 7573-2009 0.1mol/L 氯化钾溶液萃取法)	-	4.0~7.5	6.1		符合
6.	口罩下方视野* (GB 2980-2009, 6.8)	-	≥60°	81.0°		符合
7.	口罩带及口罩带与口罩体的连接处断裂强力 (YY 0469-2011 5.4)	-	口罩带应佩戴方便	试样 1	符合要求	符合
				试样 2	符合要求	
				试样 3	符合要求	
			每根口罩带与口罩体连接点处的断裂强力应不小于 10N	左试样 1	10N 拉力, 保持 5s, 样品未断裂	
				左试样 2	10N 拉力, 保持 5s, 样品未断裂	
				左试样 3	10N 拉力, 保持 5s, 样品未断裂	
				右试样 1	10N 拉力, 保持 5s, 样品未断裂	
				右试样 2	10N 拉力, 保持 5s, 样品未断裂	
				右试样 3	10N 拉力, 保持 5s, 样品未断裂	



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2、SGS 17.5*9.5cm CTCA7



检测报告

编号

日期

第 1 页 共 3 页

Test Report

No. SL520252331117TX

Date: 2020-04-16

Page 1 of 3

下列样品由客户提供及确认为:

客户信息	委托单位:	江苏盛纳凯尔医用科技有限公司		
	委托单位地址:	如东县经济开发区新区渭河路 116 号		
样品信息	样品名称:	普通防护口罩: 颜色为蓝色。		
	规格型号:	17.5cmX9.5cm		
	生产单位:	江苏盛纳凯尔医用科技有限公司		
	生产日期/批号:	2020030701		
	有效期信息:	2 年		
	样品数量:	50 只		
检测信息	检测类别:	委托送样检测		
	样品送达日期:	2020-03-20	检测周期:	2020-03-20~2020-04-16
	检测依据:	详见结果检测页		
	判定依据:	客户要求: T/CTCA 7-2019 普通防护口罩		
检测结论	本报告仅提供实测数据和单项判定, 详见检测结果汇总页。			

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 Test Report No. SL520252331117TX Date: 2020-04-16 Page 2 of 3

检测结果及评判

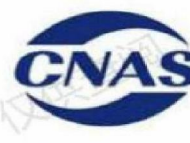
序号	检测项目及测试方法	单位	技术要求	检测结果	单项判定	
1.	甲醛含量 (GB/T 2912.1-2009) 检出限=20mg/kg	mg/kg	≤20	未检出	符合	
2.	pH 值 (GB/T 7573-2009 0.1mol/L 氯化钾溶液萃取法)	-	4.0~7.5	6.0	符合	
3.	口罩带及口罩带与口罩体的连接处断裂强力 (YY 0469-2011 5.4)	-	每根口罩带与口罩体连接点处的断裂强力应不小于 10N	口罩带应戴取方便	试样 1 符合要求	符合
				试样 2 符合要求		
				试样 3 符合要求		
				左试样 1 10N 拉力, 保持 5s, 样品未断裂		
				左试样 2 10N 拉力, 保持 5s, 样品未断裂		
				左试样 3 10N 拉力, 保持 5s, 样品未断裂		
				右试样 1 10N 拉力, 保持 5s, 样品未断裂		
				右试样 2 10N 拉力, 保持 5s, 样品未断裂		
				右试样 3 10N 拉力, 保持 5s, 样品未断裂		
4.	细菌过滤效率 (BFE) * (YY 0469-2011, 5.6.1)	%	≥95	试样 1 99.4 试样 2 99.6 试样 3 99.8	符合	
5.	颗粒过滤效率 (PFE) * (YY 0469-2011, 5.6.2)	%	≥80	试样 1 99.8 试样 2 99.8 试样 3 99.7	符合	
6.	通气阻力# (T/CTCA 7-2019, 6.6)	Pa	≤80	试样 1 34.3 试样 2 35.3 试样 3 30.4	符合	
7.	口罩下方视野* (GB 2980-2009, 6.8)	-	≥60°	81.5°	符合	



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3、SGS 14683 2R



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Test Report **SL52025256754201TX** **Date: May 25, 2020** **Page 1 of 3**
JIANGSU SONACARE MEDICAL SCIENCE & TECHNOLOGY CO., LTD
TAIHANGSHAN ROAD WEST, WEIHE ROAD NORTH, RUDONG ECONOMIC DEVELOPMENT ZONE,
NANTONG CITY, JIANGSU PROVINCE

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

Sample Description : (A) Disposable medical mask
Style No. : 2020040801
Sample Color : (A) Blue
Manufacturer : JIANGSU SONACARE MEDICAL SCIENCE & TECHNOLOGY CO., LTD
Proposed Care Instruction : -
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : May 08, 2020
Testing Period : May 09, 2020 - May 25, 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).

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

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Testing Center

3rd Building No. 888, Yishan Road, Xuhui District, Shanghai, China 200233
中国·上海·徐汇区宜山路888号3号楼 邮编: 200233

t (86-21) 61402866 f (86-21) 64958763
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Test Report

SL52025256754201TX

Date: May 25, 2020

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Test Result

Medical Face Masks-Requirements and Test Methods
(EN 14683:2019)

Clause 5.2.2 Bacterial filtration efficiency (BFE)
(EN 14683 :2019 Annex B)

(BFE), %	1#	2#	3#	4#	5#
	99.0	99.2	99.0	99.0	99.1

Remark: Performance Requirement: Type I $\geq 95\%$, Type II $\geq 98\%$, Type IIR $\geq 98\%$

* This test standard is not within the accredited scope in SGS Shanghai testing centre, it is carried out by external laboratory accredited by CMA (China Metrology Accreditation).

Clause 5.2.3 Breathability (Differential Pressure)
(EN 14683 :2019 Annex C, Flow rate 8 l/min)

	1#	2#	3#	4#	5#
Differential pressure ΔP (Pa/cm ²)	23	20	20	19	22

Remark: Performance Requirement: Type I < 40 Pa/cm², Type II < 40 Pa/cm², Type IIR < 60 Pa/cm²

Clause 5.2.4 Splash Resistance
(ISO 22609 :2004, Pressure 16.0 kPa)

Penetration on inside surface							
1#	2#	3#	4#	5#	6#	7#	8#
Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass
9#	10#	11#	12#	13#	14#	15#	16#
Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass
17#	18#	19#	20#	21#	22#	23#	24#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
25#	26#	27#	28#	29#	30#	31#	32#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Number of Pass:			30				
Overall result:			Acceptable				

Remark:

- 1) Performance Requirement Type I: N/A, Type II: N/A, Type IIR: ≥ 16.0 kPa
- 2) Distance of the medical face mask target area surface to the tip of cannula is 300 \pm 10mm.
- 3) Condition and Test temperature (21 \pm 5)^o C, relative humidity (85 \pm 10)%
- 4) An acceptable quality limit of 4.0% is met for a single sampling plan when 29 or more of the 32 tested specimens show pass results



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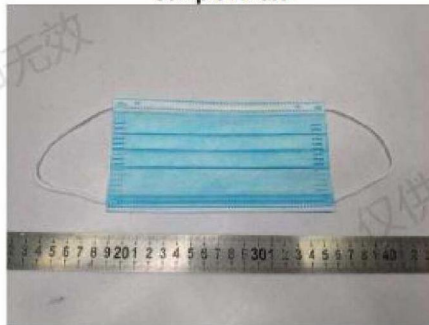
Test Report SL52025256754201TX Date: May 25, 2020 Page 3 of 3

Clause 5.2.5 Microbial Cleanliness
(EN 14683: 2019 Annex D)

	1#	2#	3#	4#	5#
CFU/g	<1	<1	<1	<1	<1

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

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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4、SN 9501 REACH 英文



Test Report **SL52025258428101TX** **Date: June 01, 2020** **Page 1 of 22**
 JIANGSU SONACARE MEDICAL SCIENCE & TECHNOLOGY CO., LTD
 WEST SIDE OF TAIHANGSHAN ROAD, NORTH SIDE OF WEIHE ROAD, RUDONG ECONOMIC
 DEVELOPMENT ZONE, NANTONG CITY, JIANGSU PROVINCE

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

Sample Description : (A) Particulate Filtering Facepiece Respirator

Style No. : SN 9501

Sample Color : (A) White

Manufacturer : JIANGSU SONACARE MEDICAL SCIENCE & TECHNOLOGY CO., LTD

Sample Receiving Date : May 25, 2020

Testing Period : May 25, 2020 - Jun 01, 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

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

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Test Report

SL52025258428101TX

Date: June 01, 2020

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Test Result

Test Part Description :**COMPONENT LIST / List of Materials**

Sample No.	Component No.	Description	Material	Color	Remark
A	1	outer non-woven fabric	Fibers		
A	2	melt-blown fabric	Fibers		
A	3	inner non-woven fabric	Fibers		
A	4	heat-sealing sponge	Fibers		
A	5	earloop	Fibers		
A	6	nose clip	Plastics		

**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 HPLC-MS.

<u>Test Item(s)</u>	1+2+3	4+5
Nonylphenol ethoxylates (NPEOs)	ND	ND
Conclusion	PASS	PASS

Notes :

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

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

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

<u>Test Item(s)</u>	6
Cadmium (Cd)	ND
Conclusion	PASS

Notes :

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



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

Test Method : Modified § 64 LFGB, BVL, B 82.02.8-2001 with KOH extraction. Analysis was conducted by GC-MS / GC-ECD.#

<u>Test Item(s)</u>	1+2+3
Pentachlorophenol (PCP)	ND
Conclusion	PASS

<u>Test Item(s)</u>	4+5
Pentachlorophenol (PCP)	ND
Conclusion	PASS

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

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Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 – Organostannic compounds

Test Method : With reference to ISO 17353: 2004 with carbamate, analysis was performed by GC-MS.#

<u>Test Item(s)</u>	6
Tri-substituted Organostannic Compounds* (as Tin)	ND
Dibutyltin (DBT) Compounds (as Tin)	ND
Di-octyltin (DOT) Compounds (as Tin)	ND
Conclusion	PASS
<u>Test Item(s)</u>	1+2+3
Tri-substituted Organostannic Compounds* (as Tin)	ND
Dibutyltin (DBT) Compounds (as Tin)	ND
Di-octyltin (DOT) Compounds (as Tin)	ND
Conclusion	PASS
<u>Test Item(s)</u>	4+5
Tri-substituted Organostannic Compounds* (as Tin)	ND
Dibutyltin (DBT) Compounds (as Tin)	ND
Di-octyltin (DOT) Compounds (as Tin)	ND
Conclusion	PASS

Notes :

RL (Reporting limit): 100mg/kg (each)

ND = Not Detected (< RL)

Requirement :

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

DBT: 1000mg/kg by weight of tin

DOT: 1000mg/kg by weight of tin

* = Tri-substituted organostannic compound include Tributyltin (TBT), Triphenyltin (TPhT), Tricyclohexyltin (TCyT), Tripropyltin (TPT), Trioctyltin (TOT) and Trimethyltin (TMT).



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

Test Method : With reference to EN 14372:2004, analysis was performed by GC-MS.#

Test Item(s)	CAS NO.	6
Benzylbutyl Phthalate (BBP)	85-68-7	ND
Dibutyl Phthalate (DBP)	84-74-2	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND
Diisobutyl Phthalate (DIBP)	84-69-5	ND
Total(DBP+BBP+DEHP+DIBP)		ND
Conclusion		PASS

Notes :

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

ND = Not Detected(< RL)

Requirement: Total(BBP+DBP+DEHP+DIBP) <1 000 mg/kg

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#

Test Item(s)	6
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCP)	ND
Conclusion	PASS

Notes :

RL (Reporting limit) = 50 mg/kg

ND = Not Detected(< RL)

Requirement: 1500 mg/kg

Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s).

The composite sampling method is based on the client's special request and is a modification from the testing standard.



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SVHC

Test Requested :

As requested by client, SVHC screening is performed according to:

(i) Two hundred and five (205) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 16, 2020 regarding Regulation (EC) No 1907/2006 concerning the REACH.

(ii) Five (5) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on Mar 3, 2020 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Summary :

According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the articles of the submitted sample. PASS

Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: <http://echa.europa.eu/web/guest/candidate-list-table>
These lists are under evaluation by ECHA and may subject to change in the future.
2. REACH obligation:
 - 2.1 Concerning article(s):
Communication:
Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.
 - Notification:
In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>



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2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
 - (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
 - (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
 - (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
 - (d) a substance for which there are Europe-wide workplace exposure limits.

3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.



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 Test Sample :

Sample Description :

Specimen No.	Description
001	Nonmetal group
002	Metal group

Test Method :

SGS In-House method-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.#

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Consultation List of potential SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in consultation list	-	ND	-

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Consultation List of potential SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested SVHC in consultation list	-	ND	-



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Notes :

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit (Test data will be shown if \geq RL. RL is not regulatory limit.)
ND = Not detected (lower than RL). ND is denoted on the SVHC substance.
- (3) Δ CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
 \star CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- (4) * The test result is based on the calculation of selected element(s) and to the worst-case scenario.
 ** The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
 For detail information, please refer to the SGS REACH website:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

Calculated concentration of boric compounds are based on the total boron for liquid, powder and paste samples and water extractive boron for other samples by ICP-OES.

RL = 0.01% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.001%, boron RL=0.005% (only for Lead bis(tetrafluoroborate)), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide).

- (5) \S The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) \geq 0.1% (w/w).
- (6) Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.
- (7) In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on components / material enough to test.
- (8) / = Substances in the Consultation List of SVHC



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.100
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.100
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.100
I	4	Anthracene	120-12-7	0.100
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.100
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.100
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.100
I	8	Cobalt dichloride*	7646-79-9	0.010
I	9	Diarsenic pentaoxide*	1303-28-2	0.010
I	10	Diarsenic trioxide*	1327-53-3	0.010
I	11	Dibutyl phthalate (DBP)	84-74-2	0.100
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) Δ	25637-99-4, 3194- 55-6	0.100
I	13	Lead hydrogen arsenate*	7784-40-9	0.010
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.010
I	15	Triethyl arsenate*	15606-95-8	0.010
II	16	2,4-Dinitrotoluene	121-14-2	0.100
II	17	Acrylamide	79-06-1	0.100
II	18	Anthracene oil**	90640-80-5	0.100
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.100
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.100



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distr. lights**	91995-17-4	0.100
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.100
II	23	Diisobutyl phthalate	84-69-5	0.100
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.010
II	25	Lead chromate*	7758-97-6	0.010
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.010
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.100
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.100
III	29	Ammonium dichromate*	7789-09-5	0.010
III	30	Boric acid*	10043-35-3, 11113-50-1	0.010
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.010
III	32	Potassium chromate*	7789-00-6	0.010
III	33	Potassium dichromate*	7778-50-9	0.010
III	34	Sodium chromate*	7775-11-3	0.010
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.010
III	36	Trichloroethylene	79-01-6	0.100
IV	37	2-Ethoxyethanol	110-80-5	0.100
IV	38	2-Methoxyethanol	109-86-4	0.100
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5 13530-68-2	0.010



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.010
IV	41	Cobalt(II) carbonate*	513-79-1	0.010
IV	42	Cobalt(II) diacetate*	71-48-7	0.010
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.010
IV	44	Cobalt(II) sulphate*	10124-43-3	0.010
V	45	1,2,3-trichloropropane	96-18-4	0.100
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.100
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.100
V	48	1-methyl-2-pyrrolidone	872-50-4	0.100
V	49	2-ethoxyethyl acetate	111-15-9	0.100
V	50	Hydrazine	7803-57-8, 302-01-2	0.100
V	51	Strontium chromate*	7789-06-2	0.010
VI	52	1,2-Dichloroethane	107-06-2	0.100
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.100
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.100
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.100
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.010
VI	57	Arsenic acid*	7778-39-4	0.010
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.100
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.100



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.010
VI	61	Dichromium tris(chromate) *	24613-89-6	0.010
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.100
VI	63	Lead diazide, Lead azide*	13424-46-9	0.010
VI	64	Lead dipicrate*	6477-64-1	0.010
VI	65	Lead styphnate*	15245-44-0	0.010
VI	66	N,N-dimethylacetamide	127-19-5	0.100
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.010
VI	68	Phenolphthalein	77-09-8	0.100
VI	69	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	0.010
VI	70	Trilead diarsenate*	3687-31-8	0.010
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.010
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.100
VII	73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.100
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.100
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.100
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.100
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.100
VII	78	Diboron trioxide*	1303-88-2	0.010



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.100
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.010
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.100
VII	82	TGIC (1,3,5-tris (oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.100
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	0.100
VII	84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.100
VIII	85	[Phthalato(2-)]dioxotilead*	69011-06-9	0.010
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.100
VIII	87	1,2-Diethoxyethane	629-14-1	0.100
VIII	88	1-Bromopropane	106-94-5	0.100
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.100
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.100
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.100
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.100
VIII	93	4-Aminoazobenzene	60-09-3	0.100
VIII	94	4 Methyl-m-phenylenediamine	95-80-7	0.100
VIII	95	4-Nonylphenol, branched and linear	-	0.100
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.100
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.010



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.100
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.100
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	0.100
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.100
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.100
VIII	103	Diethyl sulphate	64-67-5	0.100
VIII	104	Diisopentylphthalate	605-50-5	0.100
VIII	105	Dimethyl sulphate	77-78-1	0.100
VIII	106	Dinoseb	88-85-7	0.100
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.010
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.010
VIII	109	Furan	110-00-9	0.100
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.100
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.100
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	☆	0.100
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.010
VIII	114	Lead cyanamidate*	20837-86-9	0.010
VIII	115	Lead dinitrate*	10099-74-8	0.010
VIII	116	Lead monoxide*	1317-36-8	0.010



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.010
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.010
VIII	119	Lead titanium trioxide*	12060-00-3	0.010
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.010
VIII	121	Methoxyacetic acid	625-45-6	0.100
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.100
VIII	123	N,N-dimethylformamide	68-12-2	0.100
VIII	124	N-Methylacetamide	79-16-3	0.100
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.100
VIII	126	o-Aminoazotoluene	97-56-3	0.100
VIII	127	o-Toluidine	95-53-4	0.100
VIII	128	Pentacosfluorotridecanoic acid	72629-94-8	0.100
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.010
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.010
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.010
VIII	132	Silicic acid, lead salt*	11120-22-2	0.010
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.010
VIII	134	Tetraethyllead*	78-00-2	0.010
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.010
VIII	136	Tricosfluorododecanoic acid	307-55-1	0.100
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.010



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.010
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.100
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.100
IX	141	Cadmium oxide*	1306-19-0	0.010
IX	142	Cadmium*	7440-43-9	0.010
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.100
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.100
X	145	Cadmium sulphide*	1306-23-6	0.010
X	146	Dihexyl phthalate	84-75-3	0.100
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.100
X	148	Disodium 4-amino-3'-[[4'-(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.100
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thio)	96-45-7	0.100
X	150	Lead di(acetate)*	301-04-2	0.010
X	151	Trixylyl phosphate	25155-23-1	0.100
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.100
XI	153	Cadmium chloride*	10108-64-2	0.010
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.010
XI	155	Sodium peroxometaborate*	7632-04-4	0.010
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.100



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.100
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.100
XII	159	Cadmium fluoride*	7790-79-6	0.010
XII	160	Cadmium sulphate *	10124-36-4,31119-53-6	0.010
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.100
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5,68648-93	0.100
XIII	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.100
XIV	164	1,3-propanesultone	1120-71-4	0.100
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	0.100
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.100
XIV	167	Nitrobenzene	98-95-3	0.100
XIV	168	Perfluorononan-1-oiic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.100
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.100
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.100



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	171	4-Heptylphenol, branched and linear	-	0.100
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	0.100
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.100
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.100
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus™") [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.100
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.100
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.010
XVIII	178	Cadmium carbonate*	513-78-0	0.010
XVIII	179	Cadmium hydroxide*	21041-95-2	0.010
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.100
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.100
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.100
XIX	183	Benzo[ghi]perylene	191-24-2	0.100
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.100
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.100
XIX	186	Disodium octaborate*	12008-41-2	0.010
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.100



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	188	Ethylenediamine (EDA)	107-15-3	0.100
XIX	189	Lead*	7439-92-1	0.010
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.100
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.100
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzyidene camphor)	15087-24-8	0.100
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.100
XX	194	Benzo[k]fluoranthene	207-08-9	0.100
XX	195	Fluoranthene	206-44-0, 93951-69-0	0.100
XX	196	Phenanthrene	85-01-8	0.100
XX	197	Pyrene	129-00-0, 1718-52-1	0.100
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.100
XXI	199	2-methoxyethyl acetate	110-49-6	0.100
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.100
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.100
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.100
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.100
XXII	204	Diisohexyl phthalate	71850-09-4	0.100
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.100



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
/	206	1-vinylimidazole	1072-63-5	0.100
/	207	2-methylimidazole	693-98-1	0.100
/	208	Butyl 4-hydroxybenzoate	94-26-8	0.100
/	209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	0.100
/	210	Resorcinol	108-46-3	0.100

These test methods are not in CNAS accredited scope



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Sample Photo



End of Report



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下列样品由客户提供及确认为:

客户信息	委托单位:	江苏盛纳凯尔医用科技有限公司		
	委托单位地址:	如东经济开发区新区渭河路116号		
样品信息	样品名称:	KN95 口罩(自吸式颗粒物过滤呼吸器); 颜色为白色。		
	规格型号:	SN9501		
	生产日期/批号:	2020040101		
	生产单位:	江苏盛纳凯尔医用科技有限公司		
	有效期信息:	2 年		
	样品数量:	60 个		
检测信息	检测类别:	委托送样检测		
	样品送达日期:	2020-05-06	检测周期:	2020-05-06~2020-06-16
	检测依据:	详见检测结果页。		
	判定依据:	客户要求: GB 2626-2006 自吸过滤式防颗粒物呼吸器		
检测结论	本报告仅提供实测数据和单项判定, 详见检测结果汇总页。			

5.1.2e



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检测结果

序号	检测项目及测试方法	单位	技术要求	检测结果	单项判定
1.	头带 (GB 2626-2006 6.11)	-	随弃式面罩: 10N 持续 10s, 不应出现滑脱或断裂	未处理样品 10N 持续 10s, 未出现滑脱或断裂 温湿度预处理后样品 10N 持续 10s, 未出现滑脱或断裂	符合
2.	外观检查 (GB 2626-2006 6.1)	-	样品表面不应破损, 变形和有明显的其他缺陷; 部件材料和结构应能耐受正常使用条件及可能遇到的温度、湿度和机械冲击; 头带应可调; 可更换式半面罩的头带设计应为可更换; 全面罩的镜片在佩戴时不应出现结雾等影响视觉的情况。经温湿度预处理和机械强度预处理后, 部件不应脱落, 损坏和变形。	符合要求	符合



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序号	检测项目及测试方法	单位	技术要求	检测结果		单项判定
3.	过滤效率 (GB 2626-2006 6.3)	%	≥95.0	未处理	97.310	符合
					98.115	
					97.998	
					98.659	
					97.825	
					98.051	
					97.944	
				预处理	97.256	
					97.877	
					98.149	
					95.622	
					97.293	
					97.155	
					97.333	
4.	吸气阻力* (GB 2626-2006 6.5)	Pa	≤350	未预处理	59	符合
				预处理	66	
5.	呼气阻力* (GB 2626-2006 6.6)	Pa	≤250	未预处理	62	符合
				预处理	56	
6.	可燃性* (GB 2626-2006 6.15)	-	暴露于火焰的各部件在从火焰移开后, 不应燃烧; 如果燃烧, 续燃时间不应超过 5s.	未预处理	未继续燃烧	符合
				预处理	未继续燃烧	
7.	死腔* (GB 2626-2006, 6.9)	%	≤1	0.7		符合
8.	视野* (GB 2626-2006, 6.10)	-	下方视野≥60°	61°		符合

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序号	检验项目及测试方法	单位	技术要求	检测结果							单项判定	
				受试者	D1(%)	D2(%)	D3(%)	D4(%)	D5(%)	TIL(%)		
1.	泄漏性# (GB 2626-2006, 6.4)	-	50 个动作中至少 46 个动作的 TIL < 11%; 10 个受试者中至少 8 人的总体 TIL < 8%	未预处理	1#	4.6	5.2	5.1	5.1	4.7	4.9	符合
					2#	4.1	4.8	5.3	5.1	4.5	4.8	
					3#	5.0	5.7	5.7	5.6	5.1	5.4	
					4#	5.2	6.0	6.4	6.3	5.7	5.9	
					5#	5.3	5.8	5.7	5.7	5.3	5.6	
				预处理	6#	4.6	5.4	5.5	5.3	4.7	5.1	
					7#	4.1	4.7	4.8	4.6	4.2	4.5	
					8#	4.6	5.2	5.5	4.4	4.8	4.8	
					9#	5.1	5.8	5.8	5.8	5.3	5.6	
					10#	4.8	5.3	5.8	5.7	5.0	5.3	

备注: #=该检测项目不在本机构资质认定许可能力范围内; 测试由江苏国健检测技术有限公司执行, 其 CMA 资质认定许可编号为 161019130764, CNAS 资质认定许可编号是 L10118.



此符合性声明仅基于本次实验室活动的实际值, 未将本次实验室活动的结果不确定度影响计入。

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6、SN 9501 REACH 中文



测试报告 编号 SL52025258430901TX 日期: Jun 03, 2020 页码 1 of 21

江苏盛纳凯尔医用科技有限公司
江苏省南通市如东经济开发区渭河路北侧太行山路西侧
本报告是发布日期为 2020 年 06 月 01 日编号为 SL52025258428101TX 英文检测报告的中译本。
中英文版本如有歧义时，以英文版为准。

下列样品由客户提供及确认， -

样品描述	(A) 自吸式颗粒物过滤呼吸器
颜色	白色
款号	SN 9501
生产厂商	江苏盛纳凯尔医用科技有限公司
检验项目	根据申请者的要求
收样日期	* * * * *
测试周期	2020 年 05 月 25 日
测试结果	2020 年 05 月 25 日~2020 年 05 月 01 日

检测结果权对来样负责，详细的检验结果如下

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检验结果

测试样品描述 :

样品编号	描述
6	6 A 鼻梁条
1+2+3	1 A 外层无纺布 + 2 A 熔喷布 + 3 A 内层无纺布
4+5	4 A 热封棉 + 5 A 耳带

1907/2006/EC Reach 附录 XVII 的修正指令(EU) 2016/26-壬基酚聚氧乙烯醚(NPEOs)

测试方法: 参考 ISO 18254 1:2016, 采用 HPLC-MS 进行分析

测试项目	1+2+3	4+5
壬基酚聚氧乙烯醚 (NPEOs)	ND	ND
结论	符合	符合

备注 :

RL (报告检测限) :30 mg/kg
 ND = 未检出 (< RL)
要求: 100 mg/kg

1907/2006/EC REACH 附录 XVII 第 23 条及其修正指令(EU) No 835/2012, (EU) No 494/2011 和 (EU) 2016/217 - 镉 (Cd)

测试方法 : 参照 EN 1122: 2001, 方法 B 测定, 采用 AAS 分析

测试项目	6
镉 (Cd)	ND
结论	符合

备注 :

RL (报告检测限) = 5 mg/kg
 ND = 未检出 (< RL)
要求: 100 mg/kg

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欧盟 POPs 法规(EU) 2019/1021 五氯苯酚 (PCP)

测试方法: 64 LFGB, BVL, B 82.02.8-2001 的修订方法, 氢氧化钾萃取, 采用 GC-MS / GC-ECD 进行分析 #

测试项目	1+2+3
五氯苯酚 (PCP)	ND
结论	符合

测试项目	4+5
五氯苯酚 (PCP)	ND
结论	符合

备注:

RL (报告检测限) = 0.5 mg/kg

ND = 未检出 (< RL)

要求: 禁用

仅供查阅, 复印无效

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中国·上海·徐汇区宜山路888号3号楼 邮编: 200233 t: (86-21) 51402666 f: (86-21) 54958763 e: sgs.china@sgs.com

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1907/2006/EC Reach 附录 XVII 的修正指令 (EC) No 276/2010 第 20 条 - 有机锡化合物

测试方法: 参考 ISO 17353: 2004, 采用 GC-MS 进行分析 #

<u>测试项目</u>	6
三取代有机锡化合物之和* (以锡计)	ND
二丁基锡 (DBT) 化合物 (以锡计)	ND
二辛基锡 (DOT) 化合物 (以锡计)	ND
结论	符合
<u>测试项目</u>	1+2+3
三取代有机锡化合物之和* (以锡计)	ND
二丁基锡 (DBT) 化合物 (以锡计)	ND
二辛基锡 (DOT) 化合物 (以锡计)	ND
结论	符合
<u>测试项目</u>	4+5
三取代有机锡化合物之和* (以锡计)	ND
二丁基锡 (DBT) 化合物 (以锡计)	ND
二辛基锡 (DOT) 化合物 (以锡计)	ND
结论	符合

备注:

RL (报告检测限): 100mg/kg (每一项)

ND = 未检出 (< RL)

三取代有机锡化合物之和 (TBT, TPhT, TCyT, TPt, TOT, TMT): 1000 mg/kg (以锡计)

DBT: 1000mg/kg (以锡计)

DOT: 1000mg/kg (以锡计)

* = 三取代有机锡化合物包括三丁基锡 (TBT)、三苯基锡 (TPhT)、三环己基锡 (TCyT)、三丙基锡 (TPt)、三辛基锡 (TOT)、三甲基锡 (TMT) 化合物。



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1907/2006/EC Reach 附录 XVII 第 51 条的修正法案(EU) 2018/2005 -邻苯二甲酸盐含量

测试方法: 参照 EN 14372:2004 的方法, 采用 GC-MS 进行分析 #

测试项目	CAS NO.	6
邻苯二甲酸丁苄酯 (BBP)	85-68-7	ND
邻苯二甲酸二丁酯 (DBP)	84-74-2	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	ND
Total (DBP+BBP+DEHP+DIBP)		ND
结论		符合

备注:

RL (报告检测限): 30mg/kg (每一项)

ND = 未检出 (< RL)

要求: 邻苯二甲酸酯类总和 (BBP+DBP+DEHP+DIBP) <1000 mg/kg欧盟 POPs 法规 (EU) 2019/1021 - 短链氯化石蜡 (SCCP)

测试方法: 参照 ISO 18219: 2015, 采用 GC-NC1-MS 进行分析 #

测试项目	6
短链氯化石蜡 (SCCP) (C□□-C□□)	ND
结论	符合

备注:

RL (报告检测限) = 50 mg/kg

ND = 未检出 (< RL)

要求: 1500 mg/kg

混合测试是基于客户特殊要求, 与标准的测试方法有偏离。
测试结论是基于实际收到样品的测试结果。



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中国·上海·徐汇区宜山路888号3号楼 邮编: 200233 t: (86-21) 61402666 f: (86-21) 64958763 e: 5.1.2c@sgs.com

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SVHC

测试要求:

根据客户要求,

(i) 基于欧洲化学品管理署截止 2020 年 1 月 16 日公布的供授权审议的高关注物质候选清单(根据欧盟第 1907/2006 号 REACH 法规), 对 205 种高关注物质 (SVHC) 进行筛分测试。

(ii) 基于欧洲化学品管理署于 2020 年 3 月 3 日公布的潜在的的高关注物质咨询清单(根据欧盟第 1907/2006 号 REACH 法规), 对 5 种高关注物质 (SVHC) 进行筛分测试。

总结:

根据欧盟法院对 REACH 物品定义的裁定, 以及具体的范围和筛分测试, 所提交样品的部件中 SVHC 测试结果 $\leq 0.1\%$ (w/w)。 通过

备注:

1. 本报告所涉及的关于特定高关注物质的化学分析是根据欧洲化学品管理署发布的下列文件, 利用现有的分析技术完成的。

<http://echa.europa.eu/web/guest/candidate-list-table>
这些文件清单由欧洲化学品管理署评估, 将来可能会有变化。

2. REACH 法规义务:

2.1 关于物品:

告知:

欧盟第 1907/2006 (EC) 号法规第 33 条规定, 含有满足第 57 条中的标准并根据第 59 条第一款被确定且质量分数大于 0.1% 的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息, 以使物品使用安全, 这些信息至少包括含有的候选清单中物质的名称。

通报:

根据欧盟第 1907/2006 (EC) 号法规, 如果满足以下两个条件, 如果物质符合第 57 条中的标准并根据第 59 条第一款被确定, 物品的任何欧洲制造商或进口商应根据第 7 条第 4 款向欧盟化学品管理署进行通报: (a) 候选清单中的物质在物品中的总含量超过 1 吨/年/生产商或进口商; (b) 候选清单中的物质在物品中的总含量以质量分数计超过 0.1% 的浓度。

SGS 采用欧盟法院对 REACH 物品定义的裁定, 除非另有说明。详细的解释请见下列网址:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?1a=en>

2.2 关于材料:

报告中的测试结果是基于测试样品。如样品是均一材质, 当其构成成品时, 此结果不能代表成品中的 SVHC 浓度。如样品为均一材质等比例合测, 这些材质也可能来自不同的物品。

如果样品是一种物质或混合物, 并且直接出口到欧盟, 客户有责任遵守欧盟第 1907/2006 号 REACH 法规第 31 条供应链信息传递的义务和附件十四中的授权高关注物质授权的责任。



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2.3 关于物质和配制品:

如果样品中高关注物质的浓度超过 0.1% (w/w) 和/或欧盟第 1272/2008 号 CLP 法规及其修订中设定的特殊浓度限值, 建议客户根据欧盟第 1907/2006 号 REACH 法规对有关高关注物质准备安全数据表(SDS)以符合供应链通信的义务, 如

-根据欧盟第 1272/2008 号 CLP 法规被列为有害物质。

-根据欧盟第 1272/2008 号 CLP 法规被列为有害混合物, 而当中物质的浓度大于或等于欧盟第 1272/2008 号 CLP 法规列出的浓度限值;或

-根据欧盟第 1272/2008 号 CLP 法规并未列为有害混合物, 但包含:

(a) 对人类健康或环境有害的物质, 而在固体或液体混合物 (即非气体混合物) 中其浓度 $\geq 1\%$ (w/w) 或在气体混合物中占体积 $\geq 0.2\%$, 或

(b) PBT 或 vPvB 物质, 在固体或液体混合物 (即非气体混合物) 中个别浓度 $\geq 0.1\%$ (w/w), 或

(c) 授权审议的高关注物质候选清单上的物质 (除上述以外的原因) 在个别非气体混合物中的浓度 $\geq 0.1\%$ (w/w), 或

(d) 设有欧洲范围内工作场所接触限值的物质。

3. 如果样品中 SVHC 的测试结果超过报告限, 建议客户进一步定量分析检测含有 SVHC 的组分并且得到 SVHC 物质的准确浓度。



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测试样品：**测试样品描述：**

样品编号	描述
001	非金属组
002	金属组

测试方法：

SGS 内部方法-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T, 采用 ICP-OES、UV-VIS、GC-MS、HPLC-DAD/MS 和比色法分析。#

测试结果：(SVHC 候选清单中的高关注物质)

批次 物质名称	CAS No.	001 浓度 (%)	RL (%)
- 所有测试的候选清单中的 SVHC	-	ND	-

测试结果：(SVHC 咨询清单中的高关注物质)

批次 物质名称	CAS No.	001 浓度 (%)	RL (%)
- 所有测试的咨询清单中的 SVHC	-	ND	-

测试结果：(SVHC 候选清单中的高关注物质)

批次 物质名称	CAS No.	002 浓度 (%)	RL (%)
- 所有测试的候选清单中的 SVHC	-	ND	-

测试结果：(SVHC 咨询清单中的高关注物质)

批次 物质名称	CAS No.	002 浓度 (%)	RL (%)
- 所有测试的咨询清单中的 SVHC	-	ND	-



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SGS (China) Technical Services (Shanghai) Co., Ltd.
Testing Center for SVHC Services

3rd Bldg, No. 888, Yehon Road, Xuhui District, Shanghai, China 200233 t: (86-21) 61402666 f: (86-21) 54958763 www.sgs.com.cn
中国·上海·徐汇区宜山路888号3号楼 邮编: 200233 t: (86-21) 61402666 f: (86-21) 54958763 e: sgs.china@sgs.com

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注释:

- (1) 上表仅显示检出的SVHC, 低于RL的SVHC没有列出。所有测试的SVHC请参见附录。
 (2) RL = 报告限 (当测试结果 \geq RL时显示数据。RL不同于法规限值。)
 ND = 未检出 (< RL), ND针对SVHC物质。
 (3) Δ 六溴环十二烷(HBCDD)的非对映异构体 α -HBCDD、 β -HBCDD、 γ -HBCDD的CAS NO分别为134237-50-6、134237-51-7、134237-52-8。
 ☆ 甲基六氢邻苯二甲酸酐, 4-甲基六氢邻苯二甲酸酐, 1-甲基六氢邻苯二甲酸酐, 3-甲基六氢邻苯二甲

甲

酸酐的CAS No: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; 及其EC No: 247-094-1, 243-072-0, 256-356-4, 260-566-1。

(4) * 测试结果是由选定的元素的结果并基于最坏的情况计算得出; ** 测试结果是由选定的标记物的结果并基于最坏的情况计算得出。详细信息请参见SGS REACH网站:
<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

硼化合物的结果由ICP-OES测试的总硼(液体, 粉末, 膏体类样品)和水提取(其他样品)的硼元素结果换算得出。

RL = 0.01% 是针对元素(例如钴、砷、铅、铬(VI)、铝、锆、硼、锑、锌、镉、钛、钡和镉), 除了钨的RL=0.001%, 硼的RL=0.005%(仅对四氟硼酸铅), 铬(VI)的RL=0.005%(仅对氢氧化铬酸锌)。

(5) § 只有当物质包含米氏酮(CAS No.: 90-94-8)或米氏碱(CAS No.: 101-61-1)的浓度 \geq 0.1%(w/w)的情况下, 该物质才被提议定为SVHC。

(6) 基于客户要求等进行等比混合测试, 测试结果基于最小样品质量计算。

(7) 鉴于分析需求和样品量的限制, 仅对成品中足够测试的部件/材料进行筛分测试。

(8) / = 咨询清单中的高关注物质

除非另有说明, 此报告结果仅对测试的样品负责。本报告未经本公司书面许可, 不可部分复制。



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所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
I	1	4,4'-二氨基二苯甲烷(MDA)	101-77-9	0.100
I	2	2,4,6-三硝基-5-叔丁基间二甲苯(二甲苯麝香)	81-15-2	0.100
I	3	C10-13 氯代烃(短链氯化石蜡)	85535-84-8	0.100
I	4	葱	120-12-7	0.100
I	5	邻苯二甲酸丁酯(BBP)	85-68-7	0.100
I	6	邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	0.100
I	7	氧化双三丁基锡(TBTO)	56-35-9	0.100
I	8	二氯化钴*	7646-79-9	0.010
I	9	五氧化二砷*	1303-28-2	0.010
I	10	三氧化二砷*	1327-53-3	0.010
I	11	邻苯二甲酸二丁酯(DBP)	84-74-2	0.100
I	12	六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD) Δ	25637-99-4, 3194- 55-6	0.100
I	13	砷酸氢铅*	7784-40-9	0.010
I	14	重铬酸钠*	7789-12-0, 10588-01-9	0.010
I	15	三乙基磷酸酯*	15606-95-8	0.010
II	16	2,4-二硝基甲苯	121-14-2	0.100
II	17	丙烯酰胺	79-06-1	0.100
II	18	葱油**	90640-80-5	0.100
II	19	葱油, 葱糊**	90640-81-6	0.100
II	20	葱油, 葱糊, 葱馏分**	91995-15-2	0.100



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批次	序号	物质名称	CAS No.	RL (%)
II	21	葱油, 葱糊, 轻油**	91995-17-4	0.100
II	22	葱油, 含葱量少**	90640-82-7	0.100
II	23	邻苯二甲酸二异丁酯	84-69-5	0.100
II	24	钼铬红 (C. I. 颜料红 104)*	12656-85-8	0.010
II	25	铬酸铅*	7758-97-6	0.010
II	26	铅铬黄 (C. I. 颜料黄 34)*	1344-37-2	0.010
II	27	沥青, 煤焦油, 高温**	65996-93-2	0.100
II	28	磷酸三(2-氯乙基)酯	115-96-8	0.100
III	29	重铬酸铵*	7789-09-5	0.010
III	30	硼酸*	10043-35-3, 11113-50-1	0.010
III	31	无水四硼酸钠*	1303-96-4, 1330-43-4, 12179-04-3	0.010
III	32	铬酸钾*	7789-00-6	0.010
III	33	重铬酸钾*	7778-50-9	0.010
III	34	铬酸钠*	7775-11-3	0.010
III	35	水合硼酸钠*	12267-73-1	0.010
III	36	三氯乙烯	79-01-6	0.100
IV	37	乙二醇乙醚	110-80-5	0.100
IV	38	乙二醇单甲醚	109-86-4	0.100
IV	39	铬酸, 铬酸及重铬酸低聚物, 重铬酸*	7738-94-5 - 13530-68-2	0.010



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批次	序号	物质名称	CAS No.	RL (%)
IV	40	三氧化铬*	1333-82-0	0.010
IV	41	碳酸钴*	513-79-1	0.010
IV	42	乙酸钴*	71-48-7	0.010
IV	43	硝酸钴*	10141-05-6	0.010
IV	44	硫酸钴*	10124-43-3	0.010
V	45	1,2,3-三氯丙烷	96-18-4	0.100
V	46	1,2-苯二酸-二(C6-8支链)烷基酯(富C7)	71888-89-6	0.100
V	47	1,2-苯二酸-二(C7-11支链与直链)烷基(醇)酯	68515-42-4	0.100
V	48	1-甲基-2-吡咯烷酮	872-50-4	0.100
V	49	乙二醇乙醚醋酸酯	111-15-9	0.100
V	50	联氨	7803-57-8, 302-01-2	0.100
V	51	铬酸锶*	7789-06-2	0.010
VI	52	1,2-二氯乙烷	107-06-2	0.100
VI	53	4,4'-二氨基-3,3'-二氯二苯甲烷	101-14-4	0.100
VI	54	2-甲氧基苯胺	90-04-0	0.100
VI	55	对特辛基苯酚	140-66-9	0.100
VI	56	硅酸铝耐火陶瓷纤维*	650-017-00-8 (Index no.)	0.010
VI	57	砷酸*	7778-39-4	0.010
VI	58	二乙二醇二甲醚	111-96-6	0.100
VI	59	邻苯二甲酸二甲氧基乙酯	117-82-8	0.100



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批次	序号	物质名称	CAS No.	RL (%)
VI	60	砷酸钙*	7778-44-1	0.010
VI	61	铬酸铅*	24613-89-6	0.010
VI	62	甲醛与苯胺的低聚物	25214-70-4	0.100
VI	63	叠氮化铅*	13424-46-9	0.010
VI	64	苦味酸铅*	6477-61-1	0.010
VI	65	史蒂芬酸铅*	15245-44-0	0.010
VI	66	N,N-二甲基乙酰胺	127-19-5	0.100
VI	67	氢氧化铬酸铯*	49663-81-5	0.010
VI	68	酚酞	77-09-8	0.100
VI	69	氢氧化铬酸铯钾*	11103-86-9	0.010
VI	70	砷酸铅*	3687-31-8	0.010
VI	71	氧化铅硅酸树脂陶瓷纤维*	650-017-00-8 (Index no.)	0.010
VII	72	C.I. 碱性蓝 26 §	2580-56-5	0.100
VII	73	C.I. 碱性紫 3 §	548-62-9	0.100
VII	74	三乙二醇二甲醚 (TEGDME)	112-49-2	0.100
VII	75	乙二醇二甲醚 (EGDME)	110-71-4	0.100
VII	76	4,4'-二(二甲基基)二苯甲醚(米氏酚)	90-94-8	0.100
VII	77	4,4'-二(二甲氨基)-4', -甲氨基三苯甲醇 §	561-41-1	0.100
VII	78	三氧化二硼*	1303-86-2	0.010
VII	79	甲酰胺	75-12-7	0.100



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附录

所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
VII	80	甲基磺酸铝*	17570-76-2	0.010
VII	81	N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱)	101-61-1	0.100
VII	82	1,3,5-三(环氧乙基甲基)-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮(TGIC)	2451-62-9	0.100
VII	83	C.I. 溶剂蓝 4 §	6786-83-0	0.100
VII	84	1,3,5-三[(2S和2R)-2,3-环氧丙基]-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮(β-TGIC)	59653-74-6	0.100
VIII	85	二盐基邻苯二甲酸铝*	69011-06-9	0.010
VIII	86	1,2-苯二酸-(支链与直链)戊基酯	84777-06-0	0.100
VIII	87	乙二醇二乙醚	629-14-1	0.100
VIII	88	1-溴丙烷	106-94-5	0.100
VIII	89	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	0.100
VIII	90	对特辛基苯酚乙氧基醚	-	0.100
VIII	91	4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	0.100
VIII	92	4,4'-二氨基二苯醚及其盐	101-80-4	0.100
VIII	93	4-氨基偶氮苯	60-09-3	0.100
VIII	94	2,3-二氨基甲苯	95-80-7	0.100
VIII	95	4-壬基(支链与直链)苯酚	-	0.100
VIII	96	2-甲氧基-5-甲基苯胺	120-71-8	0.100
VIII	97	碱式乙酸钠*	51404-69-4	0.010
VIII	98	4-氨基联苯	92-67-1	0.100
VIII	99	十溴二苯醚(DecaBDE)	1163-19-5	0.100



55030901 20200603
 中国·上海·徐汇区宜山路889号9楼 邮编: 200233
 中国·上海·徐汇区宜山路889号9楼 邮编: 200233
 www.sgs.com.cn
 中国·上海·徐汇区宜山路889号9楼 邮编: 200233
 www.sgs.com.cn
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批次	序号	物质名称	CAS No.	RL (%)
VIII	100	环己烷-1,2-二羧酸酐, 顺式-环己烷-1,2-二羧酸酐, 反式-环己烷-1,2-二羧酸酐	85-42-7, 13149-00-3, 14166-21-3	0.100
VIII	101	偶氮二甲酰胺	123-77-3	0.100
VIII	102	二丁基二氯化锡(DBTC)	683-18-1	0.100
VIII	103	硫酸二乙酯	64-67-5	0.100
VIII	104	邻苯二甲酸二异戊酯	605-50-5	0.100
VIII	105	硫酸二甲酯	77-78-1	0.100
VIII	106	地乐酚	88-85-7	0.100
VIII	107	双(十八烷基)二氧化三铅*	12578-12-0	0.010
VIII	108	C16-18-脂肪酸铅*	91031-62-8	0.010
VIII	109	呋喃	110-00-9	0.100
VIII	110	全氟十一烷酸	2058-94-8	0.100
VIII	111	全氟十四烷酸	376-06-7	0.100
VIII	112	甲基六氢邻苯二甲酸酐, 4-甲基六氢邻苯二甲酸酐, 1-甲基六氢邻苯二甲酸酐, 3-甲基六氢邻苯二甲酸酐	☆	0.100
VIII	113	四氟硼酸铅*	13814-96-5	0.010
VIII	114	氨基铅盐*	20837-86-9	0.010
VIII	115	硝酸铅*	10099-74-8	0.010
VIII	116	一氧化铅*	1317-36-8	0.010
VIII	117	碱式硫酸铅*	12036-76-9	0.010
VIII	118	四氧化三铅*	1314-41-6	0.010
VIII	119	钛酸铅*	12060-00-3	0.010



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批次	序号	物质名称	CAS No.	RL (%)
VIII	120	钛酸铝粉*	12626-81-2	0.010
VIII	121	甲氧基乙酸	625-45-6	0.100
VIII	122	1,2-环氧丙烷	75-56-9	0.100
VIII	123	N,N-二甲基甲酰胺	68-12-2	0.100
VIII	124	N-甲基乙酰胺	79-16-3	0.100
VIII	125	邻苯二甲酸正戊基异戊基酯	776297-69-9	0.100
VIII	126	邻-氨基偶氮甲苯	97-56-3	0.100
VIII	127	2-氨基甲苯	95-53-4	0.100
VIII	128	全氟十三烷酸	72629-94-8	0.100
VIII	129	硫酸四氧化五铅*	12065-90-6	0.010
VIII	130	铅锡黄*	8012-00-8	0.010
VIII	131	掺杂铅的硅酸钡*	68784-75-8	0.010
VIII	132	硅酸铅*	11120-22-2	0.010
VIII	133	二碱式亚硫酸铅*	62229-08-7	0.010
VIII	134	四乙基铅*	78-00-2	0.010
VIII	135	硫酸三氧化四铅*	12202-17-4	0.010
VIII	136	全氟十二烷酸	307-55-1	0.100
VIII	137	碱式碳酸铅*	1319-46-6	0.010
VIII	138	二碱式亚磷酸铅*	1241-20-7	0.010
IX	139	4-壬基(支链与直链)苯酚乙氧基醚	-	0.100
IX	140	全氟辛酸铵(APFO) **	3825-26-1	0.100



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 中国·上海·徐汇区宜山路888号9楼 邮编: 200233
 中国·上海·徐汇区宜山路888号9楼 邮编: 200233

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批次	序号	物质名称	CAS No.	RL (%)
	IX 141	氯化镉*	1306-19-0	0.010
	IX 142	镉*	7440-43-9	0.010
	IX 143	邻苯二甲酸二正戊酯 (DPE)	131-18-0	0.100
	IX 144	全氟辛酸 (PFOA)	335-67-1	0.100
	X 145	硫化镉*	1306-23-6	0.010
	X 146	邻苯二甲酸二正己酯	84-75-3	0.100
	X 147	C. I. 直接红 28	573-58-0	0.100
	X 148	C. I. 直接黑 38	1937-37-7	0.100
	X 149	2-巯基咪唑啉	96-15-7	0.100
	X 150	乙酸铅*	301-04-2	0.010
	X 151	磷酸三二甲苯酯	25155-23-1	0.100
	XI 152	邻苯二甲酸二(支链与直链)己基酯	68515-50-4	0.100
	XI 153	氯化镉*	10108-64-2	0.010
	XI 154	水合过硼酸钠*	-	0.010
	XI 155	过硼酸钠*	7632-01-4	0.010
	XII 156	2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 (UV-328)	25973-55-1	0.100
	XII 157	2-苯并三唑-2-基-4,6-二叔丁基苯酚 (UV-320)	3846-71-7	0.100
	XII 158	二正辛基-双(2-乙基己基硫基乙酯)锡 (DOTE)	15571-58-1	0.100
	XII 159	氯化镉*	7790-79-6	0.010
	XII 160	硫酸镉*	10124-36-4, 31119-53	0.010

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SGS Group (SGS SA)
 5503, Avenue de la Vallée, CH-1202 Geneva, Switzerland
 中国·上海·徐汇区宜山路858号3号楼 邮编: 200233
 中国·上海·徐汇区宜山路858号3号楼 邮编: 200233
 中国·上海·徐汇区宜山路858号3号楼 邮编: 200233
 www.sgs.com | (86-21) 64209888 | (86-21) 64859703 | www.sgs.com.cn
 e: sgs.shanghai@sgs.com | (86-21) 64859703 | e: sgs.shanghai@sgs.com

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批次	序号	物质名称	CAS No.	RL (%)
XII	161	二正辛基-双(2-乙基己基巯基乙酸酯)锡(DOTE)和单辛基-三(2-乙基己基巯基乙酸酯)锡(MOTE)的反应物	-	0.100
XIII	162	1,2-苯二甲酸, 二(C6-10)烷基酯 / 1,2-苯二甲酸, 混合二己二辛68515-51-5, 68648-930.100二癸酯, 其中邻苯二甲酸二己酯含量≥0.3%	-1	0.100
XIII	163	5-二叔丁基-2-(2,4-二甲苯环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二叔丁基-2-(4,6-二甲苯环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合]	-	0.100
XIV	164	1,3-丙磺酸内酯	1120-71-4	0.100
XIV	165	2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚(UV-327)	3864-99-1	0.100
XIV	166	2-(2H-苯并三唑-2-基)-4-叔丁基-6-仲丁基苯酚(UV-350)	36437-37-3	0.100
XIV	167	硝基苯	98-95-3	0.100
XIV	168	全氟壬酸及其钠盐和铵盐	375-95-1, 21049-39-8, 4149-60-4	0.100
XV	169	苯并(a)芘	50-32-8	0.100
XVI	170	4,4'-异亚丙基联苯酚(双酚A)	80-05-7	0.100
XVI	171	4-庚基(支链与直链)苯酚	-	0.100
XVI	172	全氟癸酸(PFDA)及其钠盐和铵盐	3108-42-7, 335-76-2, 3830-45-3	0.100
XVI	173	对叔戊基苯酚	80-46-6	0.100
XVII	174	全氟己烷-1-磺酸及其盐	-	0.100
XVIII	175	双(六氯环戊二烯)环辛烷(包含任何顺式与反式同分异构体或其组合)	-	0.100
XVIII	176	苯并蒽(BaA)	56-55-3, 1718-53-2	0.100
XVIII	177	硝酸镉*	10022-68-1, 10325-94-7	0.010



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 中国·上海·徐汇区宜山路888号3号楼 邮编: 200233 t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

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批次	序号	物质名称	CAS No.	RL (%)
XVIII	178	碳酸镉*	513-78-0	0.010
XVIII	179	氢氧化镉*	21041-95-2	0.010
XVIII	180	屈 (CHR)	218-01-9, 1719-03-5	0.100
XVIII	181	1,3,4-噁二唑-2,5-二硫酮、甲醛与支链和直链 4-庚基苯酚的 反应产物 (RP-HP) [含有支链和直链 4-庚基苯酚重量比 ≥ 0.1%]	-	0.100
XIX	182	1,2,4-苯三酸酐 (偏苯三酸酐) (TMA)	552-30-7	0.100
XIX	183	苯并 (g, h, i) 菲 (二萘嵌苯) (BPE)	191-24-2	0.100
XIX	184	十甲基环五硅氧烷 (D5)	541-02-6	0.100
XIX	185	邻苯二甲酸二环己酯 (DCHP)	84-61-7	0.100
XIX	186	氧化硼钠*	12008-41-2	0.010
XIX	187	十二甲基环六硅氧烷 (D6)	540-97-6	0.100
XIX	188	乙二胺 (EDA)	107-15-3	0.100
XIX	189	铅*	7439-92-1	0.010
XIX	190	八甲基环四硅氧烷 (D4)	556-67-2	0.100
XIX	191	氯化三联苯	61788-32-7	0.100
XX	192	1,7,7-三甲基-3-(苯基亚甲基) 双环 [2.2.1] 庚-2-酮 (3-亚苄基樟 脑)	15087-24-8	0.100
XX	193	4,4'-(1,3-二甲基丁基) 二苯酚 (1,3-DMBFP)	6807-17-6	0.100
XX	194	苯并 (k) 荧蒽 (BkF)	207-08-9	0.100
XX	195	荧蒽 (FLT)	206-44-0, 93951-69-0	0.100
XX	196	菲 (PHE)	85-01-8	0.100
XX	197	芘 (PYR)	129-00-0, 1718-52-1	0.100



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所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
XXI	198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基卤化物(包括单体和组合)(HFPO-DA)	-	0.100
XXI	199	2-甲氧基乙基乙酸酯	110-49-6	0.100
XXI	200	4-叔丁基苯酚(PTBP)	98-54-4	0.100
XXI	201	三(4-壬基苯基,支链和直链)亚磷酸酯(TNPP)(含≥0.1%的支链和直链4-壬基苯酚)	-	0.100
XXII	202	2-苄基-2-二甲氨基-4'-吗啉基苯基丁酮	119313-12-1	0.100
XXII	203	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮	71868-10-5	0.100
XXII	204	邻苯二甲酸二异己酯	71850-09-4	0.100
XXII	205	全氟丁烷磺酸及其盐	-	0.100
/	206	1-乙烯基咪唑	1072-63-5	0.100
/	207	2-甲基咪唑	693-98-1	0.100
/	208	对羟基苯甲酸丁酯	94-26-8	0.100
/	209	双(乙酰丙酮基)二丁基锡	22673-19-4	0.100
/	210	间苯二酚	108-46-3	0.100

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Test Report SL52025256754201TX Date: May 25, 2020 Page 2 of 3

Test Result

Medical Face Masks-Requirements and Test Methods
(EN 14683:2019)

Clause 5.2.2 Bacterial filtration efficiency (BFE)
(EN 14683 :2019 Annex B)

	1#	2#	3#	4#	5#
(BFE), %	99.0	99.2	99.0	99.0	99.1

Remark: Performance Requirement: Type I $\geq 95\%$, Type II $\geq 98\%$, Type IIR $\geq 98\%$

* This test standard is not within the accredited scope in SGS Shanghai testing centre, it is carried out by external laboratory accredited by CMA (China Metrology Accreditation).

Clause 5.2.3 Breathability (Differential Pressure)
(EN 14683 :2019 Annex C, Flow rate 8 l/min)

	1#	2#	3#	4#	5#
Differential pressure ΔP (Pa/cm ²)	23	20	20	19	22

Remark: Performance Requirement: Type I < 40 Pa/cm², Type II < 40 Pa/cm², Type IIR < 60 Pa/cm²

Clause 5.2.4 Splash Resistance
(ISO 22609 :2004, Pressure 16.0 kPa)

Penetration on inside surface							
1#	2#	3#	4#	5#	6#	7#	8#
Pass	Pass	Pass	Pass	Fail	Pass	Pass	Pass
9#	10#	11#	12#	13#	14#	15#	16#
Pass	Pass	Fail	Pass	Pass	Pass	Pass	Pass
17#	18#	19#	20#	21#	22#	23#	24#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
25#	26#	27#	28#	29#	30#	31#	32#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Number of Pass:			30				
Overall result:			Acceptable				

Remark:

- 1) Performance Requirement Type I: N/A, Type II: N/A, Type IIR: $\geq 16.0\text{kPa}$
- 2) Distance of the medical face mask target area surface to the tip of cannula is $300 \pm 10\text{mm}$.
- 3) Condition and Test temperature $(21 \pm 5)^\circ\text{C}$, relative humidity $(85 \pm 10)\%$
- 4) An acceptable quality limit of 4.0% is met for a single sampling plan when 29 or more of the 32 tested specimens show pass results



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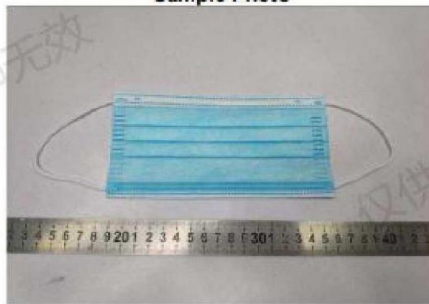
Test Report SL 52025256754201TX Date: May 25, 2020 Page 3 of 3

Clause 5.2.5 Microbial Cleanliness
(EN 14683: 2019 Annex D)

	1#	2#	3#	4#	5#
CFU/g	<1	<1	<1	<1	<1

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

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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8、医用 14683 中文



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Test Report SL52025256755201TX Date: May 29, 2020 Page 1 of 3
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江苏省南通市如东经济开发区渭河路北侧太行山路西侧

本报告是发布日期为 2020 年 05 月 25 日编号为 SL52025256754201TX 英文检测报告的中文译本。
中英文版本如有歧义时，以英文版为准。

下列样品由客户提供及确认：-

样品描述	(A)一次性使用医用口罩
款号	2020040801
成份	70%无纺布 30%熔喷布
颜色	蓝色
生产厂商	江苏盛纳凯尔医用科技有限公司
使用标签	-
检验项目	根据申请者的要求
收样日期	2020 年 05 月 08 日
测试周期	2020 年 05 月 09 日-2020 年 05 月 25 日
测试结果	检测结果仅对来样负责，详细的检验结果如下

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检验结果
医用口罩-要求和测试方法
(EN 14683:2019)

5.2.2 章节 细菌过滤效率 (BFE)
(EN 14683 :2019 Annex B)

	1#	2#	3#	4#	5#
(BFE), %	99.0	99.2	99.0	99.0	99.1

备注:

性能要求: Type I>95%, Type II>98%, Type IIR >98%

*: 该检测项目不在本机构资质认定许可能力范围内; 测试由有 CMA 资质的外部实验室执行, (需确认)

5.2.3 章节 通气阻力
(EN 14683 :2019 Annex C, 流速 8 l/min)

	1#	2#	3#	4#	5#
压力差 ΔP (Pa/cm ²)	23	20	20	19	22

备注:

性能要求: Type I<40 Pa/cm², Type II<40 Pa/cm², Type IIR<60 Pa/cm²

5.2.4 章节 合成血液穿透
(ISO 22609 :2004, 压力 16.0 kPa)

内表面穿透结果

1#	2#	3#	4#	5#	6#	7#	8#
无渗透	无渗透	无渗透	无渗透	渗透	无渗透	无渗透	无渗透
9#	10#	11#	12#	13#	14#	15#	16#
无渗透	无渗透	渗透	无渗透	无渗透	无渗透	无渗透	无渗透
17#	18#	19#	20#	21#	22#	23#	24#
无渗透	无渗透	无渗透	无渗透	无渗透	无渗透	无渗透	无渗透
25#	26#	27#	28#	29#	30#	31#	32#
无渗透	无渗透	无渗透	无渗透	无渗透	无渗透	无渗透	无渗透

无渗透数量:

30

总结果:

接受

备注:

- 性能要求 Type I: N/A, Type II: N/A, Type IIR: ≥16.0kPa
- 据样品中心位置的喷射距离是 300±10mm
- 测试温度(21±5)°C, 相对湿度(85±10)%
- 依据可接受质量限值为 4.0%的单个取样计划, 32 个试样需 29 个或更多试样显示合格



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Test Report

SL52025256755201TX

Date: May 29, 2020

Page 3 of 3

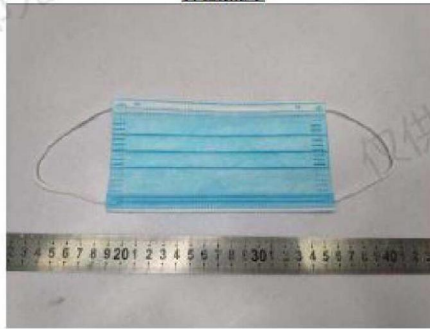
5.2.5 章节 微生物清洁度
(EN 14683: 2019 Annex D)

	1#	2#	3#	4#	5#
CFU/g	<1	<1	<1	<1	<1

备注: 性能要求 Type I≤30 CFU/g, Type II≤30 CFU/g, Type IIR≤30 CFU/g

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。

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9、医用 IIR



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Test Report SL52025256755201TX Date: May 29, 2020 Page 1 of 3

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江苏省南通市如东经济开发区渭河北侧太行山路西侧

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颜色	蓝色
生产厂商	江苏盛纳凯尔医用科技有限公司
使用标签	-
检验项目	根据申请者的要求
收样日期	2020 年 05 月 08 日
测试周期	2020 年 05 月 09 日-2020 年 05 月 25 日
测试结果	检测结果仅对来样负责，详细的检验结果如下

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检验结果
医用口罩-要求和测试方法
 (EN 14683:2019)

5.2.2 章节 细菌过滤效率 (BFE) *
 (EN 14683 :2019 Annex B)

	1#	2#	3#	4#	5#
(BFE), %	99.0	99.2	99.0	99.0	99.1

备注：
 性能要求：Type I>95%，Type II>98%，Type IIR >98%
 *：该检测项目不在本机构资质认定许可能力范围内；测试由有 CMA 资质的外部实验室执行，（需确认）

5.2.3 章节 通气阻力
 (EN 14683 :2019 Annex C, 流速 8 l/min)

	1#	2#	3#	4#	5#
压力差 ΔP (Pa/cm ²)	23	20	20	19	22

备注：
 性能要求：Type I<40 Pa/cm², Type II<40 Pa/cm², Type IIR <60 Pa/cm²

5.2.4 章节 合成血液穿透
 (ISO 22609 :2004, 压力 16.0 kPa)

内表面穿透结果

1#	2#	3#	4#	5#	6#	7#	8#
无渗透	无渗透	无渗透	无渗透	渗透	无渗透	无渗透	无渗透
9#	10#	11#	12#	13#	14#	15#	16#
无渗透	无渗透	渗透	无渗透	无渗透	无渗透	无渗透	无渗透
17#	18#	19#	20#	21#	22#	23#	24#
无渗透	无渗透	无渗透	无渗透	无渗透	无渗透	无渗透	无渗透
25#	26#	27#	28#	29#	30#	31#	32#
无渗透	无渗透	无渗透	无渗透	无渗透	无渗透	无渗透	无渗透
无渗透数量:			30				
总结果:			接受				

- 备注：
 1) 性能要求 Type I: N/A, Type II: N/A, Type IIR: ≥16.0kPa
 2) 据样品中心位置的喷射距离是 300±10mm
 3) 测试温度(21±5)°C, 相对湿度(85±10)%
 4) 依据可接受质量限值为 4.0%的单个取样计划，32 个试样需 29 个或更多试样显示合格



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Test Report SL 52025256755201TX Date: May 29, 2020 Page 3 of 3

5.2.5 章节 微生物清洁度 (EN 14683: 2019 Annex D)

	1#	2#	3#	4#	5#
CFU/g	<1	<1	<1	<1	<1

备注: 性能要求 Type I ≤ 30 CFU/g, Type II ≤ 30 CFU/g, Type IIR ≤ 30 CFU/g

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样品照片



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Test Result

Azo Dyes (Direct Reduction & Colorant Extraction)

Textile: According to EN ISO 14362-1:2017 – Analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	Cas No	Result (mg/kg)	
		Direct Reduction	Colorant Extraction
		Outer layer non woven fabric	
4-Aminobiphenyl	92-67-1	nd	nd
Benzidine	92-87-5	nd	nd
4-Chlor-o-toluidine	95-69-2	nd	nd
2-Naphthylamine	91-59-8	nd	nd
o-Aminoazotoluene	97-56-3	nd	nd
5-Nitro-o-Toluidine/2-Amino-4-Nitrotoluene	99-55-8	nd	nd
4-Chloroaniline	106-47-8	nd	nd
4-Methoxy-m-Phenylenediamine/2,4-Diaminoanisole	615-05-4	nd	nd
4,4'-Diaminodiphenylmethane	101-77-9	nd	nd
3,3'-Dichlorobenzidine	91-94-1	nd	nd
3,3'-Dimethoxybenzidine	119-90-4	nd	nd
3,3'-Dimethylbenzidine	119-93-7	nd	nd
4,4'-methylenedi-o-Toluidine/3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	nd	nd
p-Cresidine	120-71-8	nd	nd
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	nd	nd
4,4'-Oxydianiline	101-80-4	nd	nd
4,4'-Thiodianiline	139-65-1	nd	nd
o-Toluidine	95-53-4	nd	nd
4-Methyl-m-Phenylenediamine/2,4-Toluyldiamine	95-80-7	nd	nd
2,4,5-Trimethylaniline	137-17-7	nd	nd
4-Aminoazobenzene	60-09-3	nd	nd
O-Anisidine	90-04-0	nd	nd
Conclusion		PASS	PASS

Requirement: 30 mg/kg



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Note:
ND = Not Detected

Reporting Limit = 5 mg/kg (for individual compound)

Remark:

+ Direct reduction refers to the extraction and reduction according to clause 10.2 and relevant clauses.

+ Colorant extraction refers to the colourant extraction and subsequent reduction according to clause 10.1 and relevant clauses.

4-Aminodiphenyl (CAS number 92-67-1), 2-Naphylamine (CAS number 91-59-8) and 4-Methoxy-m-phenylenediamine (CAS number 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.

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.

The ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5.0 mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5.0 mg/kg). Otherwise, the test method of ISO 14362-3:2017 will be employed to verify the presence of 4-aminoazobenzene.



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Test Part Description:

Specimen No.	Description
4	4 A white nose clip
1+2+3	1 A blue outer layer non-woven fabric + 2 A white melt-blown material + 3 A white Inner layer non-woven fabric

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 HPLC-MS.

Test Item(s)	Result
Nonylphenol ethoxylates (NPEOs)	1+2+3 ND
Conclusion	PASS

Notes :

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

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

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

Test Item(s)	Result
Cadmium (Cd)	4 ND
Conclusion	PASS

Notes :

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

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

Test Method : Modified § 64 LFGB, BVL, B 82.02.8-2001 with KOH extraction. Analysis was conducted by GC-MS / GC-ECD.

Test Item(s)	Result
Pentachlorophenol (PCP)	1+2+3 ND
Conclusion	PASS

Notes :

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

#The test method is not in CNAS accredited scope



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Entry 20 of Regulation (EC) No 276/2010 amending Annex XVII of REACH Regulation (EC) No 1907/2006 – Organostannic compounds#

Test Method : With reference to ISO 17353: 2004 with carbamate, analysis was performed by GC-MS.

Test Item(s)	4
Tri-substituted Organostannic Compounds* (as Tin)	ND
Dibutyltin (DBT) Compounds (as Tin)	ND
Di-octyltin (DOT) Compounds (as Tin)	ND
Conclusion	PASS

Test Item(s)	1+2+3
Tri-substituted Organostannic Compounds* (as Tin)	ND
Dibutyltin (DBT) Compounds (as Tin)	ND
Di-octyltin (DOT) Compounds (as Tin)	ND
Conclusion	PASS

Notes :

RL (Reporting limit):100mg/kg (each)
 ND = Not Detected (< RL)

Requirement:

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

DBT: 1000mg/kg by weight of tin

DOT: 1000mg/kg by weight of tin

* = Tri-substituted organostannic compound include Tributyltin (TBT), Triphenyltin (TPhT), Tricyclohexyltin (TCyT), Tripropyltin (TPT), Trioctyltin (TOT) and Trimethyltin (TMT).

#The test method is not in CNAS accredited scope

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

Test Method : With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	4
Benzylbutyl Phthalate (BBP)	85-68-7	ND
Dibutyl Phthalate (DBP)	84-74-2	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND
Diisobutyl Phthalate (DIBP)	84-69-5	ND
Total(DBP+BBP+DEHP+DIBP)		ND
Conclusion		PASS

Notes :

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

ND = Not Detected(< RL)

Requirement: Total(BBP+DBP+DEHP+DIBP) <1 000 mg/kg

#The test method is not in CNAS accredited scope



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Test Report **SL52025257414601TX** Date: **May 26, 2020** Page 6 of 20
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

Test Item(s) **4**
 Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCP) **ND**
 Conclusion **PASS**

Notes:

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

#The test method is not in CNAS accredited scope

SVHC#

Test Requested: As requested by client, SVHC screening is performed according to:
 (i) Two hundred and five (205) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 16, 2020 regarding Regulation (EC) No 1907/2006 concerning the REACH.
 (ii) Five (5) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on Mar 3, 2020 regarding Regulation (EC) No 1907/2006 concerning the REACH.

Summary:

According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the articles of the submitted sample. **PASS**

Remark:

- The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: <http://echa.europa.eu/web/guest/candidate-list-table>
 These lists are under evaluation by ECHA and may subject to change in the future.
- REACH obligation:
 2.1 Concerning article(s):
 Communication:
 Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).



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SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or

(d) a substance for which there are Europe-wide workplace exposure limits.

3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

Test Method:

SGS In-House method-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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Testing Center

3rd Building No.889, Yitian Road, Xuhui District, Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402966 f (86-21) 64958763
t (86-21) 61402966 f (86-21) 64958763

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Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	A Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

Test Result: (Substances in the Consultation List of potential SVHC)

Batch	Substance Name	CAS No.	A Concentration (%)	RL (%)
-	All tested SVHC in consultation list	-	ND	-

Notes:

- (1) The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
- (2) RL = Reporting Limit (Test data will be shown if it \geq RL. RL is not regulatory limit.)
ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
- (3) Δ CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
* CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
- (4) * The test result is based on the calculation of selected element(s) and to the worst-case scenario.
** The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
For detail information, please refer to the SGS REACH website:

<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>

Calculated concentration of boric compounds are based on the total boron for liquid, powder and paste samples and water extractive boron for other samples by ICP-OES.
RL = 0.01% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.001%, boron RL=0.005% (only for Lead bis(tetrafluoroborate)), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide).

- (5) \S The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) \geq 0.1% (w/w).
- (6) Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.
- (7) In consideration of the analysis requirement and the limit of sample volume, the screening test for the article is based on components / material enough to test.
- (8) / = Substances in the Consultation List of SVHC



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4'-Diaminodiphenylmethane(MDA)	101-77-9	0.100
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.100
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.100
I	4	Anthracene	120-12-7	0.100
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.100
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.100
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.100
I	8	Cobalt dichloride*	7646-79-9	0.010
I	9	Diarsenic pentaoxide*	1303-28-2	0.010
I	10	Diarsenic trioxide*	1327-53-3	0.010
I	11	Dibutyl phthalate (DBP)	84-74-2	0.100
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) Δ	25637-99-4, 3194-55-6	0.100
I	13	Lead hydrogen arsenate*	7784-40-9	0.010
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.010
I	15	Triethyl arsenate*	15606-95-8	0.010
II	16	2,4-Dinitrotoluene	121-14-2	0.100
II	17	Acrylamide	79-06-1	0.100
II	18	Anthracene oil**	90640-80-5	0.100
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.100
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.100



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Testing Center

3rd Building, No. 388 Yitian Road, Yuhui District, Shanghai, China 200233
中国·上海·徐汇区宜山路388号3号楼 邮编: 200233

T (86-21) 61402096 F (86-21) 64958763

www.sgs.com.cn

T (86-21) 61402096 F (86-21) 64958763

e sgs.china@sgs.com

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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distrn. lights**	91995-17-4	0.100
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.100
II	23	Diisobutyl phthalate	84-69-5	0.100
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.010
II	25	Lead chromate*	7758-97-6	0.010
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.010
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.100
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.100
III	29	Ammonium dichromate*	7789-09-5	0.010
III	30	Boric acid*	10043-35-3, 11113-50-1	0.010
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.010
III	32	Potassium chromate*	7789-00-6	0.010
III	33	Potassium dichromate*	7778-50-9	0.010
III	34	Sodium chromate*	7775-11-3	0.010
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.010
III	36	Trichloroethylene	79-01-6	0.100
IV	37	2-Ethoxyethanol	110-80-5	0.100
IV	38	2-Methoxyethanol	109-86-4	0.100
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5 - 13530-68-2	0.010



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 中国·上海·徐汇区宜山路359号3号楼 邮编: 200233 t (86-21) 61402966 f (86-21) 64958783 e sgs.china@sgs.com

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Appendix
Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.010
IV	41	Cobalt(II) carbonate*	513-79-1	0.010
IV	42	Cobalt(II) diacetate*	71-48-7	0.010
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.010
IV	44	Cobalt(II) sulphate*	10124-43-3	0.010
V	45	1,2,3-trichloropropane	96-18-4	0.100
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.100
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.100
V	48	1-methyl-2-pyrrolidone	872-50-4	0.100
V	49	2-ethoxyethyl acetate	111-15-9	0.100
V	50	Hydrazine	7803-57-8, 302-01-2	0.100
V	51	Strontium chromate*	7789-06-2	0.010
VI	52	1,2-Dichloroethane	107-06-2	0.100
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.100
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.100
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.100
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.010
VI	57	Arsenic acid*	7778-39-4	0.010
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.100
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.100



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 9 Building No.888, Yehua Road, Xuhui District, Shanghai, China 200233 t (86-21) 61402966 f (86-21) 64958763 www.sgs.com.cn
 中国·上海·徐汇区宜山路888号3号楼 邮编: 200233 t (86-21) 61402966 f (86-21) 64958763 e sgs.china@sgs.com

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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.010
VI	61	Dichromium tris(chromate) *	24613-89-6	0.010
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.100
VI	63	Lead diazide, Lead azide*	13424-46-9	0.010
VI	64	Lead dipicrate*	6477-64-1	0.010
VI	65	Lead styphnate*	15245-44-0	0.010
VI	66	N,N-dimethylacetamide	127-19-5	0.100
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.010
VI	68	Phenolphthalein	77-09-8	0.100
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.010
VI	70	Trilead diarsenate*	3687-31-8	0.010
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.010
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.100
VII	73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.100
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.100
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.100
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.100
VII	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.100
VII	78	Diboron trioxide*	1303-86-2	0.010



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SGS-CTI (Shanghai) Technical Services Co., Ltd.
Testing Center

9th Building No. 889, Yehen Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402966 f (86-21) 64950763
t (86-21) 61402966 f (86-21) 64950763

www.sgs.com.cn
e sgs.china@sgs.com

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Appendix
Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.100
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.010
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.100
VII	82	TGIC (1,3,5-tris (oxiranylmethyl) -1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	0.100
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	0.100
VII	84	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.100
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.010
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.100
VIII	87	1,2-Diethoxyethane	629-14-1	0.100
VIII	88	1-Bromopropane	106-94-5	0.100
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.100
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.100
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.100
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.100
VIII	93	4-Aminoazobenzene	60-09-3	0.100
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.100
VIII	95	4-Nonylphenol, branched and linear	-	0.100
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.100
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.010



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Appendix
Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.100
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.100
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	0.100
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.100
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.100
VIII	103	Diethyl sulphate	64-67-5	0.100
VIII	104	Diisopentylphthalate	605-50-5	0.100
VIII	105	Dimethyl sulphate	77-78-1	0.100
VIII	106	Dinoseb	88-85-7	0.100
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.010
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.010
VIII	109	Furan	110-00-9	0.100
VIII	110	Henicosaflluoroundecanoic acid	2058-94-8	0.100
VIII	111	Heptacosaflluorotetradecanoic acid	376-06-7	0.100
VIII	112	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	*	0.100
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.010
VIII	114	Lead cyanamidate*	20837-86-9	0.010
VIII	115	Lead dinitrate*	10099-74-8	0.010
VIII	116	Lead monoxide*	1317-36-8	0.010



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Testing Center 中国·上海·徐汇区宜山路888号3号楼 邮编: 200233 t (86-21) 61402966 f (86-21) 64966793 e sgs.china@sgs.com

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Appendix
Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.010
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.010
VIII	119	Lead titanium trioxide*	12060-00-3	0.010
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.010
VIII	121	Methoxyacetic acid	625-45-6	0.100
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.100
VIII	123	N,N-dimethylformamide	68-12-2	0.100
VIII	124	N-Methylacetamide	79-16-3	0.100
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.100
VIII	126	o-Aminoazotoluene	97-56-3	0.100
VIII	127	o-Toluidine	95-53-4	0.100
VIII	128	Pentacosafuorotridecanoic acid	72629-94-8	0.100
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.010
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.010
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.010
VIII	132	Silicic acid, lead salt*	11120-22-2	0.010
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.010
VIII	134	Tetraethyllead*	78-00-2	0.010
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.010
VIII	136	Tricosafuorododecanoic acid	307-55-1	0.100
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.010



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Testing Center

3rd Building No.888, Yehen Road, Xuhui District, Shanghai, China 200233
中国·上海·徐汇区宜山路888号3号楼 邮编: 200233

t (86-21) 61402966 f (86-21) 64958763
t (86-21) 61402966 f (86-21) 64958763

www.sgs.com
e 5.7.2E@sgs.com

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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.010
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.100
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.100
IX	141	Cadmium oxide*	1306-19-0	0.010
IX	142	Cadmium*	7440-43-9	0.010
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.100
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.100
X	145	Cadmium sulphide*	1306-23-6	0.010
X	146	Diethyl phthalate	84-75-3	0.100
X	147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)] bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.100
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.100
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thio)	96-45-7	0.100
X	150	Lead di(acetate)*	301-04-2	0.010
X	151	Triethyl phosphate	25155-23-1	0.100
XI	152	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear	68515-50-4	0.100
XI	153	Cadmium chloride*	10108-64-2	0.010
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.010
XI	155	Sodium peroxometaborate*	7632-04-4	0.010
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.100



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.100
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate (DOTE)	15571-58-1	0.100
XII	159	Cadmium fluoride*	7790-79-6	0.010
XII	160	Cadmium sulphate*	10124-36-4,31119-53 -6	0.010
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy] -2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetra decanoate (reaction mass of DOTE & MOTE)	-	0.100
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	68515-51-5,68648-93 -1	0.100
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.100
XIV	164	1,3-propanesultone	1120-71-4	0.100
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	0.100
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.100
XIV	167	Nitrobenzene	98-95-3	0.100
XIV	168	Perfluorononan-1-oi-c-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.100
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.100
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.100



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	171	4-Heptylphenol, branched and linear	-	0.100
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	0.100
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.100
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.100
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus™") [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.100
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.100
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.010
XVIII	178	Cadmium carbonate*	513-78-0	0.010
XVIII	179	Cadmium hydroxide*	21041-95-2	0.010
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.100
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.100
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.100
XIX	183	Benzo[ghi]perylene	191-24-2	0.100
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.100
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.100
XIX	186	Disodium octaborate*	12008-41-2	0.010
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.100



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Testing Center (Shanghai)

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t (86-21) 61402866 f (86-21) 64968783
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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	188	Ethylenediamine (EDA)	107-15-3	0.100
XIX	189	Lead*	7439-92-1	0.010
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.100
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.100
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.100
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.100
XX	194	Benzo[k]fluoranthene	207-08-9	0.100
XX	195	Fluoranthene	206-44-0, 93951-69-0	0.100
XX	196	Phenanthrene	85-01-8	0.100
XX	197	Pyrene	129-00-0, 1718-52-1	0.100
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.100
XXI	199	2-methoxyethyl acetate	110-49-6	0.100
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.100
XXI	201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.100
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.100
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.100
XXII	204	Diisohexyl phthalate	71850-09-4	0.100
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.100



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
/	206	1-vinylimidazole	1072-63-5	0.100
/	207	2-methylimidazole	693-98-1	0.100
/	208	Butyl 4-hydroxybenzoate	94-26-8	0.100
/	209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	0.100
/	210	Resorcinol	108-46-3	0.100

#The test method is not in CNAS accredited scope

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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11、医用 REACH 中文



Test Report

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江苏盛纳凯尔医用科技有限公司
江苏省南通市如东经济开发区渭河路北侧太行山路西侧

本报告是发布日期为 2020 年 05 月 26 日编号为 SL52025257416601TX 英文检测报告的中文译本。
中英文版本如有歧义时，以英文版为准。

下列样品由客户提供及确认： -

样品描述	(A) 一次性使用医用口罩
款号	耳挂式 17.5cmX9.5cm
成份	70%无纺布+30%熔喷布
颜色	蓝色
生产厂商	江苏盛纳凯尔医用科技有限公司
使用标签	-

检验项目 根据申请者的要求

	*	*	*	*	*
收样日期		2020 年 05 月 13 日			
测试周期		2020 年 05 月 13 日-2020 年 05 月 26 日			
测试结果		检测结果仅对来样负责，详细的检验结果如下			

5.1.2e



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检验结果

偶氮染料(直接还原&染料萃取)

纺织品: 参照 EN ISO 14362-1:2017 - 采用 GC-MS/HPLC-DAD 进行分析

芳香胺	Cas No	结果(mg/kg)	
		直接还原	染料萃取
4-氨基联苯	92-67-1	nd	nd
联苯胺	92-87-5	nd	nd
4-氯邻甲苯	95-69-2	nd	nd
2-萘胺	91-59-8	nd	nd
邻氨基二甲基偶氮苯	97-56-3	nd	nd
2-氨基-4-硝基甲苯	99-55-8	nd	nd
对氯苯胺	106-47-8	nd	nd
2, 4-二氨基苯甲醚	615-05-4	nd	nd
4, 4' -二氨基二苯甲烷	101-77-9	nd	nd
3, 3' -二氯联苯胺	91-94-1	nd	nd
3, 3' -二甲氧基联苯胺	119-90-4	nd	nd
3, 3' -二甲基联苯胺	119-93-7	nd	nd
3, 3' -二甲基-4, 4' -二氨基二苯甲烷	838-88-0	nd	nd
3-氨基对甲苯甲醚 (p-克利醇)	120-71-8	nd	nd
4, 4' -次甲基-双- (2-氯苯胺)	101-14-4	nd	nd
4, 4' -二氨基二苯醚	101-80-4	nd	nd
4, 4' -二氨基二苯硫醚	139-65-1	nd	nd
邻甲苯胺	95-53-4	nd	nd
2, 4-二氨基甲苯	95-80-7	nd	nd
2, 4, 5-三甲苯胺	137-17-7	nd	nd
4-氨基偶氮苯	60-09-3	nd	nd
邻甲氧基苯胺	90-04-0	nd	nd
结论		合格	合格

最大限量: 30 mg/kg(单个测点)



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备注:

ND =未检出

报告限= 5 mg/kg (单个苯胺)

备注:

+直接还原是指萃取和还原根据条款 10.2 和相关条款

+染料萃取是指萃取和还原根据条款 10.1 和相关条款。

4-氨基联苯 (CAS No. 92-67-1), 2-萘胺 (CAS number 91-59-8), 2,4-二氨基苯甲醛 (CAS No. 615-05-4) 有检出时, 如果没有进一步的信息 (如染料的化学结构) 提供, 并不能确认使用了禁用的偶氮染料。

当样品中含有聚氨酯材料 (如含 PU 泡沫、PU 涂层和 PU 胶印) 时, 某些胺类, 若 4,4'-二氨基二苯甲烷 (MDA, CAS No. 101-77-9) 和 2,4-二氨基甲苯 (TDA, CAS No. 95-80-7) 有检出, 并不能确认其来自 PU 材料而非禁用偶氮染料。

当样品中含有胶印时, 若 4,4'-二氨基二苯甲烷 (MDA, CAS No. 101-77-9) 有检出, 需要注意该物质可能不是来源于禁用的偶氮染料, 而是来源于其它物料, 如化学固色剂。

ISO 14362-1:2017 方法会使 4-氨基偶氮苯 (CAS No:60-09-3) 在本实验条件下进一步裂解为非禁用的胺: 苯胺和 1,4-苯二胺。如果经上述测试方法没有检出苯胺和/或 1,4-苯二胺 (i. e. <5mg/kg), 则认为 4-氨基偶氮苯 (CAS No:60-09-3) “未检出” (i. e. <5mg/kg)。否则, 将采用 ISO 14362-3:2017 方法验证 4-氨基偶氮苯的存在。

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Testing Center

中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

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测试样品描述：

样品编号	描述
4	4 A 白色鼻夹
1+2+3	1 A 蓝色外层无纺布+ 2 A 白色熔喷材料 + 3 A 白色里层无纺布 fabric

1907/2006/EC Reach 附录 XVII 的修正指令 (EU) 2016/26-壬基酚聚氧乙烯醚 (NPEOs)

测试方法： 参考 ISO 18254 1:2016, 采用 HPLC-MS 进行分析

测试项目	1+2+3
壬基酚聚氧乙烯醚 (NPEOs)	ND
结论	符合

备注：

RL (报告检测限) : 30 mg/kg
 ND = 未检出 (< RL)
 要求: 100 mg/kg

1907/2006/EC REACH 附录 XVII 第 23 条及其修正指令 (EU) No 835/2012, (EU) No 494/2011 和 (EU) 2016/217 - 镉 (Cd)

测试方法： 参照 EN 1122: 2001, 方法 B 测定, 采用 AAS 分析

测试项目	4
镉 (Cd)	ND
结论	符合

备注：

RL (报告检测限) = 5 mg/kg
 ND = 未检出 (< RL)
 要求: 100 mg/kg



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欧盟 POPs 法规(EU) 2019/1021 五氯苯酚 (PCP)#

测试方法： 参照 § 64 LFGB, BVL, B 82.02.8 2001, 氢氧化钾萃取, 采用 GC-MS / GC-ECD 进行分析

测试项目	1+2+3
五氯苯酚 (PCP)	ND
结论	符合

备注：

RL (报告检测限) = 0.5 mg/kg

ND = 未检出 (< RL)

要求: 禁用

#检测方法不在 CNAS 资质认定范围内

1907/2006/EC Reach 附录 XVII 的修正指令(EC) No 276/2010 第 20 条 - 有机锡化合物#

测试方法： 参考 ISO 17353: 2004, 采用 GC-MS 进行分析

测试项目	4
三取代有机锡化合物之和* (以锡计)	ND
二丁基锡 (DBT) 化合物 (以锡计)	ND
二辛基锡 (DOT) 化合物 (以锡计)	ND
结论	符合

测试项目	1+2+3
三取代有机锡化合物之和* (以锡计)	ND
二丁基锡 (DBT) 化合物 (以锡计)	ND
二辛基锡 (DOT) 化合物 (以锡计)	ND
结论	符合

备注：

RL (报告检测限): 100mg/kg (每一项)

ND = 未检出 (< RL)

三取代有机锡化合物之和 (TBT, TPhT, TCyT, TPT, TOT, TMT): 1000 mg/kg (以锡计)

DBT: 1000mg/kg (以锡计)

DOT: 1000mg/kg (以锡计)

*=三取代有机锡化合物包括三丁基锡 (TBT)、三苯基锡 (TPhT)、三环己基锡 (TCyT)、三丙基锡 (TPT)、二辛基锡 (TOT)、三甲基锡 (TMT) 化合物。

#检测方法不在 CNAS 资质认定范围内



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1907/2006/EC Reach 附录 XVII 第 51 条的修正法案(EU) 2018/2005 -邻苯二甲酸盐含量#

测试方法：参照 EN 14372:2004 的方法，采用 GC-MS 进行分析

测试项目	CAS NO.	4
邻苯二甲酸丁苯酯 (BBP)	85-38-7	ND
邻苯二甲酸二丁酯 (DBP)	84-74-2	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	ND
邻苯二甲酸二异丁酯 (DIBP)	84-59-5	ND
邻苯二甲酸酯类总和 (BBP+DBP+DEHP+DIBP)		ND
结论		符合

备注：

RL (报告检测限): 30mg/kg (每一项)

ND = 未检出 (< RL)

要求：邻苯二甲酸酯类总和 (BBP+DBP+DEHP+DIBP) <1000 mg/kg

#检测方法不在 CNAS 资质认定范围内

欧盟 POPs 法规(EU) 2019/1021 - 短链氯化石蜡 (SCCP)#

测试方法：参照 ISO 18219: 2015, 采用 GC-NC1-MS 进行分析

测试项目	4
短链氯化石蜡 (SCCP) (C□□-C□□)	ND
结论	符合

备注：

RL (报告检测限) = 50 mg/kg

ND = 未检出 (< RL)

要求：1500 mg/kg

#检测方法不在 CNAS 资质认定范围内



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Testing Center | 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 | (86-21) 51402666 | (86-21) 54958763 | e: sgs.china@sgs.com

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SVHC#

测试要求：

根据客户要求，

(i) 基于欧洲化学品管理署截止 2020 年 1 月 16 日公布的供授权审议的高关注物质候选清单(根据欧盟第 1907/2006 号 REACH 法规)，对 205 种高关注物质 (SVHC) 进行筛分测试。

(ii) 基于欧洲化学品管理署于 2020 年 3 月 3 日公布的潜在的高关注物质咨询清单(根据欧盟第 1907/2006 号 REACH 法规)，对 5 种高关注物质 (SVHC) 进行筛分测试。

总结：

根据欧盟法院对 REACH 物品定义的裁定，以及具体的范围和筛分测试，所提交样品的部件中 SVHC 测试结果 ≤ 0.1% (w/w)。

备注：

1. 本报告所涉及的关于特定高关注物质的化学分析是根据欧洲化学品管理署发布的下列文件，利用现有的分析技术完成的。
<http://echa.europa.eu/web/guest/candidate-list-table>
这些文件清单由欧洲化学品管理署评估，将来可能会有变化。
2. REACH 法规义务：
 - 2.1 关于物品：
告知：
欧盟第 1907/2006 (EC) 号法规第 33 条规定，含有满足第 57 条中的标准并根据第 59 条第一款被确定且质量分数大于 0.1% 的物质的物品的所有供应商应向物品接受者提供其可获取的充足信息，以使物品使用安全，这些信息至少包括含有的候选清单中物质的名称。

通报：

根据欧盟第 1907/2006 (EC) 号法规，如果满足以下两个条件，如果物质符合第 57 条中的标准并根据第 59 条第一款被确定，物品的任何欧洲制造商或进口商应根据第 7 条第 4 款向欧盟化学品管理署进行通报：(a) 候选清单中的物质在物品中的总含量超过 1 吨/年/生产商或进口商；(b) 候选清单中的物质在物品中的总含量以质量分数计超过 0.1% 的浓度。

SGS 采用欧盟法院对 REACH 物品定义的裁定，除非另有说明。详细的解释请见下列网址：

<http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en>

2.2 关于材料：

报告中的测试结果是基于测试样品。如样品是均一材质，当其构成成品时，此结果不能代表成品中的 SVHC 浓度。如样品为均一材质等比例合测，这些材质也可能来自不同的物品。

如果样品是一种物质或混合物，并且直接出口到欧盟，客户有责任遵守欧盟第 1907/2006 号 REACH 法规第 31 条供应链信息传递的义务和附件十四中的授权高关注物质授权的责任。



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中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

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F (86-21) 54958763

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2.3 关于物质和配制品:

如果样品中高关注物质的浓度超过 0.1% (w/w) 和/或欧盟第 1272/2008 号 CLP 法规及其修订中设定的特殊浓度限值, 建议客户根据欧盟第 1907/2006 号 REACH 法规对有关高关注物质准备安全数据表(SDS)以符合供应链通信的义务, 如

-根据欧盟第 1272/2008 号 CLP 法规被列为有害物质。

-根据欧盟第 1272/2008 号 CLP 法规被列为有害混合物, 而当中物质的浓度大于或等于欧盟第 1272/2008 号 CLP 法规列出的浓度限值;或

-根据欧盟第 1272/2008 号 CLP 法规并未列为有害混合物, 但包含:

(a) 对人类健康或环境有害的物质, 而在固体或液体混合物(即非气体混合物)中其浓度 $\geq 1\%$ (w/w)或在气体混合物中占体积 $\geq 0.2\%$, 或

(b) PBT 或 vPvB 物质, 在固体或液体混合物(即非气体混合物)中个别浓度 $\geq 0.1\%$ (w/w), 或

(c) 授权审议的高关注物质候选清单上的物质(除上述以外的原因)在个别非气体混合物中的浓度 $\geq 0.1\%$ (w/w), 或

(d) 设有欧洲范围内工作场所接触限值的物质。

3. 如果样品中 SVHC 的测试结果超过报告限, 建议客户进一步定量分析检测含有 SVHC 的组分并且得到 SVHC 物质的准确浓度。

测试方法:

SGS 内部方法-SHTC-CHEM-SOP-97-T, SHTC-CHEM-SOP-302-T, 采用 ICP-OES、UV-VIS、GC-MS、HPLC-DAD/MS 和比色法分析。

测试结果: (SVHC 候选清单中的高关注物质)

批次	物质名称	CAS No.	A 浓度 (%)	RL (%)
-	所有测试的候选清单中的 SVHC	-	ND	-

测试结果: (SVHC 咨询清单中的高关注物质)

批次	物质名称	CAS No.	A 浓度 (%)	RL (%)
-	所有测试的咨询清单中的 SVHC	-	ND	-



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注释：

- (1) 上表仅显示检出的SVHC，低于RL的SVHC没有列出。所有测试的SVHC请参见附录。
- (2) RL = 报告限（当测试结果 \geq RL时显示数据。RL不同于法规限值。）
ND = 未检出（ $<$ RL），ND针对SVHC物质。
- (3) Δ 六溴环十二烷(HBCDD)的非对映异构体 α -HBCDD、 β -HBCDD、 γ -HBCDD的CAS NO分别为134237-50-6、134237-51-7、134237-52-8。
☆甲基六氢邻苯二甲酸酐，4-甲基六氢邻苯二甲酸酐，1-甲基六氢邻苯二甲酸酐，3-甲基六氢邻苯二甲酸酐的CAS No: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; 及其EC No: 247-094-1, 243-072-0, 256-356-4, 260-566-1。
- (4) * 测试结果是由选定的元素的结果并基于最坏的情况计算得出；** 测试结果是由选定的标记物的结果并基于最坏的情况计算得出。详细信息请参见SGS REACH网站：
<http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx>
- 硼化合物的结果由ICP-OES测试的总硼（液体，粉末，膏体类样品）和水提取（其他样品）的硼元素结果换算得出。
- RL = 0.01% 是针对元素（例如钴、砷、铅、铬(VI)、铝、锆、硼、镉、锌、镱、钛、钡和镉），除了钼的RL= 0.001%，硼的RL=0.005%（仅对四氟硼酸铅），铬(VI)的RL= 0.005%（仅对氢氧化铬酸锌）。
- (5) § 只有当物质包含米氏酮(CAS No.: 90-94-8)或米氏碱(CAS No.: 101-61-1)的浓度 \geq 0.1%(w / w)的情况下，该物质才被提议定为SVHC。
- (6) 基于客户要求等进行等比混合测试，测试结果基于最小样品质量计算。
- (7) 鉴于分析需求和样品量的限制，仅对成品中足够测试的部件/材料进行筛分测试。
- (8) / = 咨询清单中的高关注物质
- 除非另有说明，此报告结果仅对测试的样品负责，本报告未经本公司书面许可，不可部分复制。检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

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附录

所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
I	1	4,4'-二氨基二苯甲烷(MDA)	101-77-9	0.100
I	2	2,4,6-三硝基-5-叔丁基间二甲苯(二甲苯麝香)	81-15-2	0.100
I	3	C10-13 氯代烃(短链氯化石蜡)	85535-84-8	0.100
I	4	葱	120-12-7	0.100
I	5	邻苯二甲酸丁酯(BBP)	85-68-7	0.100
I	6	邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	0.100
I	7	氧化双三丁基锡(TBTO)	56-35-9	0.100
I	8	二氯化钴*	7646-79-9	0.010
I	9	五氧化二砷*	1303-28-2	0.010
I	10	三氧化二砷*	1327-53-3	0.010
I	11	邻苯二甲酸二丁酯(DBP)	84-74-2	0.100
I	12	六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD) Δ	25637-99-4, 3194-55-6	0.100
I	13	砷酸氢铅*	7784-40-9	0.010
I	14	重铬酸钠*	7789-12-0, 10588-01-9	0.010
I	15	三乙基砷酸酯*	15606-95-8	0.010
II	16	2,4-二硝基甲苯	121-14-2	0.100
II	17	丙烯酰胺	79-06-1	0.100
II	18	葱油**	90640-80-5	0.100
II	19	葱油, 葱糊**	90640-81-6	0.100
II	20	葱油, 葱糊, 葱馏分**	91995-15-2	0.100



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批次	序号	物质名称	CAS No.	RL (%)
II	21	葱油, 葱糊, 轻油**	91995-17-4	0.100
II	22	葱油, 含葱量少**	90640-82-7	0.100
II	23	邻苯二甲酸二异丁酯	84-69-5	0.100
II	24	钼铬红 (C. I. 颜料红 104)*	12656-85-8	0.010
II	25	铬酸铅*	7758-97-6	0.010
II	26	铅铬黄 (C. I. 颜料黄 34)*	1344-37-2	0.010
II	27	沥青, 煤焦油, 高温**	65996-93-2	0.100
II	28	磷酸三(2-氯乙基)酯	115-96-8	0.100
III	29	重铬酸铵*	7789-09-5	0.010
III	30	硼酸*	10043-35-3, 11113-50-1	0.010
III	31	无水四硼酸钠*	1303-96-4, 1330-43-4, 12179-04-3	0.010
III	32	铬酸钾*	7789-00-6	0.010
III	33	重铬酸钾*	7778-50-9	0.010
III	34	铬酸钠*	7775-11-3	0.010
III	35	水合硼酸钠*	12267-73-1	0.010
III	36	三氯乙烯	79-01-6	0.100
IV	37	乙二醇乙醚	110-80-5	0.100
IV	38	乙二醇单甲醚	109-86-4	0.100
IV	39	铬酸, 铬酸及重铬酸低聚物, 重铬酸*	7738-94-5 - 13530-68-2	0.010



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3rd Building, No. 889, Yishan Road, Xuhui District, Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 51420966 f (86-21) 54958763 www.sgs.com.cn
t (86-21) 51420966 f (86-21) 54958763 e sgs.china@sgs.com

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批次	序号	物质名称	CAS No.	RL (%)
IV	40	三氧化铬*	1333-82-0	0.010
IV	41	碳酸钴*	513-79-1	0.010
IV	42	乙酸钴*	71-48-7	0.010
IV	43	硝酸钴*	10141-05-6	0.010
IV	44	硫酸钴*	10124-43-3	0.010
V	45	1,2,3-三氯丙烷	96-18-4	0.100
V	46	1,2-苯二甲酸二(C6-8支链)烷基酯(富C7)	71888-89-6	0.100
V	47	1,2-苯二甲酸二(C7-11支链与直链)烷基(醇)酯	68515-42-4	0.100
V	48	1-甲基-2-吡咯烷酮	872-50-4	0.100
V	49	乙二醇乙醚醋酸酯	111-15-9	0.100
V	50	联氨	7803-57-8, 302-01-2	0.100
V	51	铬酸铈*	7789-06-2	0.010
VI	52	1,2-二氯乙烷	107-06-2	0.100
VI	53	4,4'-二氨基-3,3'-二氯二苯甲烷	101-14-4	0.100
VI	54	2-甲氧基苯胺	90-04-0	0.100
VI	55	对特辛基苯酚	140-66-9	0.100
VI	56	硅酸铝耐火陶瓷纤维*	650-017-00-8 (Index no.)	0.010
VI	57	砷酸*	7778-39-4	0.010
VI	58	二乙二醇二甲醚	111-96-6	0.100
VI	59	邻苯二甲酸二甲氧基乙酯	117-82-8	0.100



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Testing Center

3rd Bldg, No. 889, Yishan Road, Xuhui District, Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

T: (86-21) 61402666 F: (86-21) 64958703
T: (86-21) 61402666 F: (86-21) 64958703

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VI	60	砷酸钙*	7778-44-1	0.010
VI	61	铬酸铬*	24613-89-6	0.010
VI	62	甲醛与苯胺的低聚物	25214-70-4	0.100
VI	63	叠氮化铅*	13424-46-9	0.010
VI	64	苦味酸铅*	6477-64-1	0.010
VI	65	史蒂芬酸铅*	15245-44-0	0.010
VI	66	N,N-二甲基乙酰胺	127-19-5	0.100
VI	67	氢氧化铬酸锌*	49663-84-5	0.010
VI	68	酚酞	77-09-8	0.100
VI	69	氢氧化铬酸钾*	11103-86-9	0.010
VI	70	砷酸铅*	3687-31-8	0.010
VI	71	氧化锆硅酸铝耐火陶瓷纤维*	650-017-00-8 (Index no.)	0.010
VII	72	C.I. 碱性蓝 26 §	2580-56-5	0.100
VII	73	C.I. 碱性紫 3 §	548-62-9	0.100
VII	74	三乙二醇二甲醚 (TEGDME)	112-49-2	0.100
VII	75	乙二醇二甲醚 (EGDME)	110-71-4	0.100
VII	76	4,4'-二(二甲氨基)二苯甲酮 (米氏酮)	90-94-8	0.100
VII	77	4,4'-二(二甲氨基)-4'-甲氨基三苯甲醇 §	561-41-1	0.100
VII	78	三氧化二硼*	1303-86-2	0.010
VII	79	甲酰胺	75-12-7	0.100



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批次	序号	物质名称	CAS No.	RL (%)
VII	80	甲基磺酸铅*	17570-76-2	0.010
VII	81	N,N,N',N'-四甲基-4,4'-二氨基二苯甲烷(米氏碱)	101-61-1	0.100
VII	82	1,3,5-三(环氧乙基甲基)-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮(TGIC)	2451-62-9	0.100
VII	83	C.I. 溶剂蓝 4 §	6786-83-0	0.100
VII	84	1,3,5-三-[(2S 和 2R) -2,3-环氧丙基]-1,3,5-三嗪-2,4,6-(1H,3H,5H)-三酮(β-TGIC)	59653-74-6	0.100
VIII	85	二盐基邻苯二甲酸铅*	69011-06-9	0.010
VIII	86	1,2-苯二酸-二(支链与直链)戊基酯	84777-06-0	0.100
VIII	87	乙二醇二乙醚	629-14-1	0.100
VIII	88	1-溴丙烷	106-94-5	0.100
VIII	89	3-乙基-2-甲基-2-(3-甲基丁基)-1,3-恶唑烷	143860-04-2	0.100
VIII	90	对特辛基苯酚乙氧基醚	-	0.100
VIII	91	4,4'-二氨基-3,3'-二甲基二苯甲烷	838-88-0	0.100
VIII	92	4,4'-二氨基二苯醚及其盐	101-80-4	0.100
VIII	93	4-氨基偶氮苯	60-09-3	0.100
VIII	94	2,4-二氨基甲苯	95-80-7	0.100
VIII	95	4-壬基(支链与直链)苯酚	-	0.100
VIII	96	2-甲氧基-5-甲基苯胺	120-71-8	0.100
VIII	97	碱式乙酸铅*	51404-69-4	0.010
VIII	98	4-氨基联苯	92-67-1	0.100
VIII	99	十溴二苯醚(DecaBDE)	1163-19-5	0.100



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批次	序号	物质名称	CAS No.	RL (%)
VIII	100	环己烷-1, 2-二羧酸酐, 顺式-环己烷-1, 2-二羧酸酐, 反式-环己烷-1, 2-二羧酸酐	85-42-7, 13149-00-3, 14166-21-3	0.100
VIII	101	偶氮二甲酰胺	123-77-3	0.100
VIII	102	二丁基二氯化锡(DBTC)	683-18-1	0.100
VIII	103	硫酸二乙酯	64-67-5	0.100
VIII	104	邻苯二甲酸二异戊酯	605-50-5	0.100
VIII	105	硫酸二甲酯	77-78-1	0.100
VIII	106	地乐酚	88-85-7	0.100
VIII	107	双(十八烷基)二氧代三铅*	12578-12-0	0.010
VIII	108	C16-18-脂肪酸铅*	91031-62-8	0.010
VIII	109	呋喃	110-00-9	0.100
VIII	110	全氟十一烷酸	2058-94-8	0.100
VIII	111	全氟十四烷酸	376-06-7	0.100
VIII	112	甲基六氢邻苯二甲酸酐, 4-甲基六氢邻苯二甲酸酐, 1-甲基六氢邻苯二甲酸酐, 3-甲基六氢邻苯二甲酸酐	☆	0.100
VIII	113	四氟硼酸铅*	13814-96-5	0.010
VIII	114	氨基氧铅盐*	20837-86-9	0.010
VIII	115	硝酸铅*	10099-74-8	0.010
VIII	116	一氧化铅*	1317-36-8	0.010
VIII	117	碱式硫酸铅*	12036-76-9	0.010
VIII	118	四氧化三铅*	1314-41-6	0.010
VIII	119	钛酸铅*	12060-00-3	0.010



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 中国·上海·徐汇区宜山路888号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763 www.sgs.com.cn
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批次	序号	物质名称	CAS No.	RL (%)
XII	161	二正辛基-双(2-乙基己基硫基乙酸酯)锡(DOTE)和单辛基-三(2-乙基己基硫基乙酸酯)锡(MOTE)的反应物	-	0.100
XIII	162	1,2-苯二甲酸, 二(C6-10)烷基酯 / 1,2-苯二甲酸, 混合二己二辛68515-51-5, 68648-930.100二癸酯, 其中邻苯二甲酸二己酯含量≥0.3%	-1	0.100
XIII	163	5-二叔丁基-2-(2,4-二甲苯环己-3-烯-1-基)-5-甲基-1,3-二恶烷[1], 5-二叔丁基-2-(4,6-二甲苯环己-3-烯-1-基)-5-甲基-1,3-二恶烷[2] [任何[1]和[2]或者其任意组合的单独异构体或其任何组合]	-	0.100
XIV	164	1,3-丙磺酸内酯	1120-71-4	0.100
XIV	165	2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚(UV-327)	3864-99-1	0.100
XIV	166	2-(2H-苯并三唑-2-基)-4-叔丁基-6-仲丁基苯酚(UV-350)	36437-37-3	0.100
XIV	167	硝基苯	98-95-3	0.100
XIV	168	全氟壬酸及其钠盐和铵盐	375-95-1, 21049-39-8, 4149-60-4	0.100
XV	169	苯并(a)芘	50-32-8	0.100
XVI	170	4,4'-异亚丙基联苯酚(双酚A)	80-05-7	0.100
XVI	171	4-庚基(支链与直链)苯酚	-	0.100
XVI	172	全氟癸酸(PFDA)及其钠盐和铵盐	3108-42-7, 335-76-2, 3830-45-3	0.100
XVI	173	对叔戊基苯酚	80-46-6	0.100
XVII	174	全氟己烷-1-磺酸及其盐	-	0.100
XVIII	175	双(六氯环戊二烯)环辛烷(包含任何顺式与反式同分异构体或其组合)	-	0.100
XVIII	176	苯并蒽(BaA)	56-55-3, 1718-53-2	0.100
XVIII	177	硝酸镉*	10022-68-1, 10325-94-7	0.010



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 Testing Center
 15 Building, No. 689, Yehou Road, Juhui District, Shanghai, China 200233
 中国·上海·徐汇区宜山路689号3号楼 邮编: 200233

Tel: (86-21) 51402966
 Tel: (86-21) 51402966
 Tel: (86-21) 54958763
 Tel: (86-21) 54958763

www.sgs.com.cn
 e: sgs.china@sgs.com

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Test Report

No. SL52025257416601TX

Date: May 27, 2020

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附录

所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
XVIII	178	碳酸镉*	513-78-0	0.010
XVIII	179	氢氧化镉*	21041-95-2	0.010
XVIII	180	屈 (CHR)	218-01-9, 1719-03-5	0.100
XVIII	181	1,3,4-噁二唑-2,5-二硫酮、甲醛与支链和直链 4-庚基苯酚的反应产物 (RP-HP) [含有支链和直链 4-庚基苯酚重量比 ≥ 0.1%]	-	0.100
XIX	182	1,2,4-苯三酸酐 (偏苯三酸酐) (TMA)	552-30-7	0.100
XIX	183	苯并 (g, h, i) 茚 (二萘嵌苯) (BPE)	191-24-2	0.100
XIX	184	十甲基环五硅氧烷 (D5)	541-02-6	0.100
XIX	185	邻苯二甲酸二环己酯 (DCHP)	84-61-7	0.100
XIX	186	氧化硼钠*	12008-41-2	0.010
XIX	187	十二甲基环六硅氧烷 (D6)	540-97-6	0.100
XIX	188	乙二胺 (EDA)	107-15-3	0.100
XIX	189	铅*	7439-92-1	0.010
XIX	190	八甲基环四硅氧烷 (D4)	556-67-2	0.100
XIX	191	氯化三联苯	61788-32-7	0.100
XX	192	1,7,7-三甲基-3-(苯基亚甲基)双环 [2.2.1]庚-2-酮 (3-亚苄基樟脑)	15087-24-8	0.100
XX	193	4,4'-(1,3-二甲基丁基)二苯酚 (1,3-DMBBP)	6807-17-6	0.100
XX	194	苯并 (k) 荧蒽 (BkF)	207-08-9	0.100
XX	195	荧蒽 (FLT)	206-44-0, 93951-69-0	0.100
XX	196	菲 (PHE)	85-01-8	0.100
XX	197	芘 (PYR)	129-00-0, 1718-52-1	0.100



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3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

T (86-21) 51402666 F (86-21) 54958763 www.sgs.com.cn
T (86-21) 51402666 F (86-21) 54958763 e sgs.china@sgs.com

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Test Report

No. SL52025257416601TX

Date: May 27, 2020

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附录

所有测试的 SVHC:

批次	序号	物质名称	CAS No.	RL (%)
XXI	198	2,3,3,3-四氟-2-(七氟丙氧基)丙酸及其盐和酰基卤化物(包括单体和组合)(HFPO-DA)	-	0.100
XXI	199	2-甲氧基乙基乙酸酯	110-49-6	0.100
XXI	200	4-叔丁基苯酚(PTBP)	98-54-4	0.100
XXI	201	三(4-壬基苯基,支链和直链)亚磷酸酯(TNPP)(含≥0.1%的支链和直链4-壬基苯酚)	-	0.100
XXII	202	2-苄基-2-二甲氨基-4'-吗啉基苯基丁酮	119313-12-1	0.100
XXII	203	2-甲基-1-(4-甲硫基苯基)-2-吗啉基-1-丙酮	71868-10-5	0.100
XXII	204	邻苯二甲酸二异己酯	71850-09-4	0.100
XXII	205	全氟丁烷磺酸及其盐	-	0.100
/	206	1-乙烯基咪唑	1072-63-5	0.100
/	207	2-甲基咪唑	693-98-1	0.100
/	208	对羟基苯甲酸丁酯	94-26-8	0.100
/	209	双(乙酰丙酮基)二丁基锡	22673-19-4	0.100
/	210	间苯二酚	108-46-3	0.100

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t (86-21) 61402666 f (86-21) 64958763 www.sgs.com.cn
e sgs.china@sgs.com

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Test Report

No. SL52025257416601TX

Date: May 27, 2020

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样品照片



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Testing Center

3rd Building, No. 888, Yishan Road, Xuhui District, Shanghai, China 200233
中国·上海·徐汇区宜山路888号3号楼 邮编: 200233

t (86-21) 51402666 f (86-21) 54956763 www.sgs.com.cn
t (86-21) 51402666 f (86-21) 54956763 e sgs.china@sgs.com

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12、医用 血透 160



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Test Report **SL52025258520001TX** **Date: June 02, 2020** **Page 1 of 2**
JIANGSU SONACARE MEDICAL SCIENCE & TECHNOLOGY CO., LTD
TAIHANGSHAN ROAD WEST, WEIHE ROAD NORTH, RUDONG ECONOMIC DEVELOPMENT ZONE,
NANTONG CITY, JIANGSU PROVINCE

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

Sample Description : (A) Disposable medical mask
Style No. : Flat hook type 17.5cmX9.5cm
Composition : (A) 70% Non-woven fabric, 30% Melt-blown fabric
Sample Color : (A) Blue
Proposed Care Instruction :
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : May 25, 2020
Testing Period : May 25, 2020 - Jun 02, 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).

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

5.1.2e



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Test Report SL52025258520001TX Date: June 02, 2020 Page 2 of 2

Test Result

Standard Specification for Performance of Materials Used in Medical Face Masks
(ASTM F2100-2019)

Section 6.1 Resistance to Penetration by Synthetic Blood
(ASTM F1862/F1862M-2017)

Pressure 160mmHg

Penetration on inside surface								
1#	2#	3#	4#	5#	6#	7#	8#	
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
9#	10#	11#	12#	13#	14#	15#	16#	
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
17#	18#	19#	20#	21#	22#	23#	24#	
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
25#	26#	27#	28#	29#	30#	31#	32#	
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
Number of Pass:			32					
Overall result:			Acceptable					

Remark:

- 1) Performance Requirement Level 1 Barrier: 80mmHg, Level 2 Barrier: 120mmHg, Level 3 Barrier: 160mmHg
- 2) Distance of the medical face mask target area surface to the tip of cannula is 30.5cm.
- 3) Condition and Test temperature $(21 \pm 5)^\circ \text{C}$, relative humidity $(85 \pm 5)\%$
- 4) An acceptable quality limit of 4.0% is met for a single sampling plan when 29 or more of the 32 tested specimens show pass results

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 SL52025257490801TX Date: May 22, 2020 Page 2 of 2

Test Result

Standard Specification for Performance of Materials Used in Medical Face Masks
(ASTM F2100-2019)

Section 6.1 Resistance to Penetration by Synthetic Blood
(ASTM F1862/F 1862M-2017)

Pressure 120mmHg

Penetration on inside surface							
1#	2#	3#	4#	5#	6#	7#	8#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
9#	10#	11#	12#	13#	14#	15#	16#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
17#	18#	19#	20#	21#	22#	23#	24#
Pass	Pass	Pass	Pass	Pass	Fail	Pass	Pass
25#	26#	27#	28#	29#	30#	31#	32#
Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Number of Pass:				31			
Overall result:				Acceptable			

Remark:

- 1) Performance Requirement Level 1 Barrier: 80mmHg, Level 2 Barrier: 120mmHg, Level 3 Barrier: 160mmHg
- 2) Distance of the medical face mask target area surface to the tip of cannula is 30.5cm.
- 3) Condition and Test temperature (21±5)° C, relative humidity (85±5)%
- 4) An acceptable quality limit of 4.0% is met for a single sampling plan when 29 or more of the 32 tested specimens show pass results

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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14、KN95 口罩检测报告



检测报告 编号 日期 第 1 页 共 4 页
 Test Report No. SL520252565861TX Date: 2020-06-16 Page 1 of 4

下列样品由客户提供及确认为:

客户信息	委托单位:	江苏盛纳凯尔医用科技有限公司		
	委托单位地址:	如东经济开发区新区渭河路116号		
样品信息	样品名称:	KN95口罩(自吸式颗粒物过滤呼吸器); 颜色为白色。		
	规格型号:	SN9501		
	生产日期/批号:	2020040101		
	生产单位:	江苏盛纳凯尔医用科技有限公司		
	有效期信息:	2年		
	样品数量:	60个		
检测信息	检测类别:	委托送样检测		
	样品送达日期:	2020-05-06	检测周期:	2020-05-06-2020-06-16
	检测依据:	详见检测结果页。		
	判定依据	客户要求: GB 2626-2006 自吸过滤式防颗粒物呼吸器		
检测结论	本报告仅提供实测数据和单项判定, 详见检测结果汇总表。			

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检测报告 编号 日期 第2页共4页
 Test Report No. SL520252565861TX Date: 2020-06-16 Page 2 of 4

检测结果

序号	检测项目及测试方法	单位	技术要求	检测结果	单项判定
1.	头带 (GB 2626-2006 6.11)		随弃式面罩：10N 持续 10s，不应出现滑脱或断裂	未处理样品 10N 持续 10s，未出现滑脱或断裂 温湿度预处理后样品 10N 持续 10s，未出现滑脱或断裂	符合
2.	外观检查 (GB 2626-2006 6.1)		样品表面不应破损，变形和有明显的其他缺陷；部件材料和结构应能耐受正常使用条件及可能遇到的温度、湿度和机械冲击；头带应可调；可更换式半面罩的头带设计应为可更换；全面罩的镜片在佩戴时不应出现结雾等影响视觉的情况。经温湿度预处理和机械强度预处理后，部件不应脱落、损坏和变形。	符合要求	符合



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检测报告 编号 日期 第3页共4页
 Test Report No. SL520252565861TX Date: 2020-06-16 Page 3 of 4

序号	检测项目及测试方法	单位	技术要求	检测结果	单项判定	
3.	过滤效率 (GB 2626-2006 6.3)	%	≥95.0	未处理	97.310	符合
					98.115	
					97.998	
					98.659	
					97.825	
					98.051	
					97.944	
				预处理	97.256	
					97.877	
					98.149	
					95.622	
					97.293	
					97.155	
					97.333	
4.	吸气阻力* (GB 2626-2006 6.5)	Pa	≤350	未预处理	59	符合
				预处理	66	
5.	呼气阻力* (GB 2626-2006 6.6)	Pa	≤250	未预处理	62	符合
				预处理	56	
6.	可燃性* (GB 2626-2006 6.15)	-	暴露于火焰的各部件在从火焰移开后, 不应燃烧; 如果燃烧, 续燃时间不应超过 5s。	未预处理	未继续燃烧	符合
				预处理	未继续燃烧	
7.	死腔* (GB 2626-2006, 6.9)	%	≤1	0.7	符合	
8.	视野* (GB 2626-2006, 6.10)	-	下方视野≥60°	61°	符合	

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序号	检验项目及测试方法	单位	技术要求	检测结果							单项判定	
				受试者	D1(%)	D2(%)	D3(%)	D4(%)	D5(%)	TIL(%)		
1.	泄漏性# (GB 2626-2006, 6.4)	-	50 个动作中至少 46 个动作的 TIL < 11%; 10 个受试者中至少 8 人的总体 TIL < 8%	未预处理	1#	4.6	5.2	5.1	5.1	4.7	4.9	符合
					2#	4.1	4.8	5.3	5.1	4.5	4.8	
					3#	5.0	5.7	5.7	5.6	5.1	5.4	
					4#	5.2	6.0	6.4	6.3	5.7	5.9	
					5#	5.3	5.8	5.7	5.7	5.3	5.6	
				预处理	6#	4.6	5.4	5.5	5.3	4.7	5.1	
					7#	4.1	4.7	4.8	4.6	4.2	4.5	
					8#	4.6	5.2	5.5	4.4	4.8	4.8	
					9#	5.1	5.8	5.8	5.8	5.3	5.6	
					10#	4.8	5.3	5.8	5.7	5.0	5.3	

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