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MEDICAL EXAMINATION NITRILE GLOVE

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You're protected.

Our gloves will be manufactured through rigorous tests based on the corresponding regulations. We will ensure the demand and protection in accordance with the highest quality standards.

There will be 96 product lines at the end of 2021, and the daily output of each machine will be approximately 1 million.

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Serves Worldwide

1 United State

Troy,Michigan

2 Germany

Wiesbaden

3 India

Chennai

4 Malaysia

Kuala Lumpur

5 China

Konggang,Tianjin
Chengdu,Sichuan
Kunshan,Jiangsu
Ningbo,Zhejiang
Guangzhou,Guangdong
Mianyang,Sichuan
Wuhan,Hubei
Qinpu,Shanghai
Qingyuan,Guangdong
Zhuhai,Guangdong

Inhouse Production

Personalized Service and

24/7 Online Tracking System

Increasing Efficiency

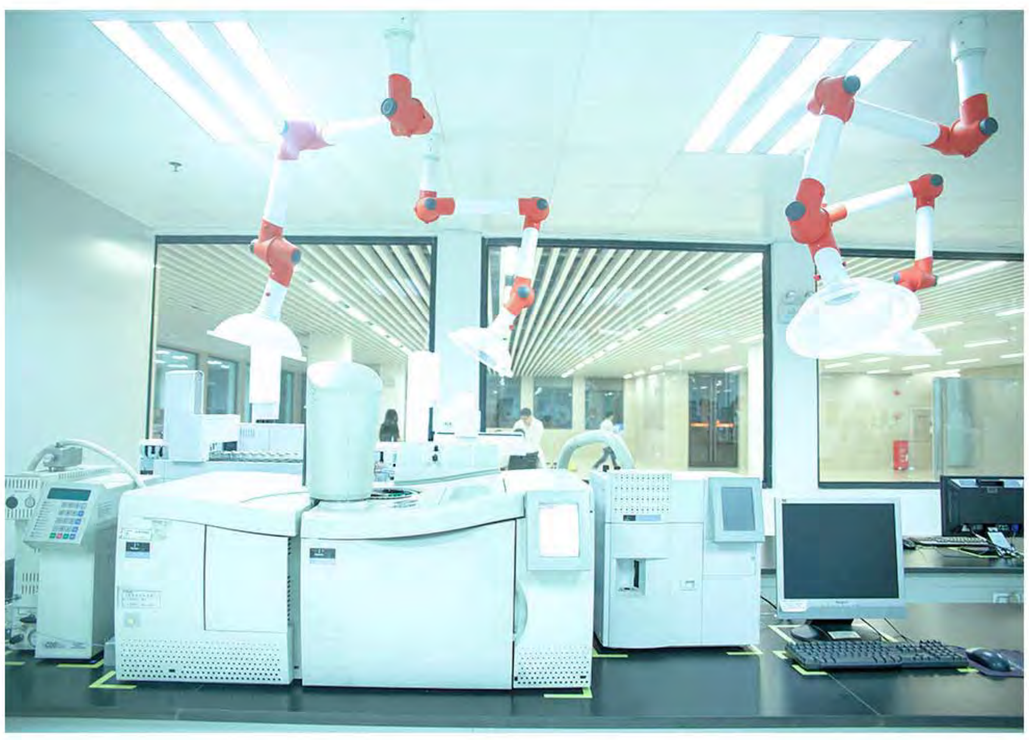
Raw Material Supply Chain

Management & Control

Short Leadtime

Overseas Distribution Centers

Risk Control & Management



SGS Inspection and

Quality Control

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Focus on supplier management, new products development and quality control.

Strong Supply System

Excellent Technology Team

Various Kinds of Products

Kingfa makes full use of its own technology accumulated in the modified plastics industry for many years. With the experience and advantages of process control and test certifications,we have successfully developed nitrile gloves with excellent physical properties,tactile sensitivity, chemical resistance and virus resistance, which can provide effective protection for people.

MODEL:
KS-ST RT021

Chemical	Letter	Level
40% Sodium hydroxide	K	2
Type	C	

FEATURE

- Fingertip textured
- Powder Free
- Latex Free
- Multifunctional
- Blue colour

APPLICATION

The disposable nitrile gloves are designed for the health care personnel to prevent contamination during close contact with the patient. The products are single-use, powder-free and non-sterile.

STANDARD COMPLIAINCE

PPE Cat III according to Regulation (EU) 2016/425
EN ISO 21420:2020 Protective gloves — General requirements and test methods
EN ISO 374-1: 2016 Terminology and performance requirements for chemical risks
EN 374-2:2014: Determination of resistance to penetration
EN 16523-1:2015+A1:2018 Permeation by potentially hazardous liquid chemicals under conditions of continuous contact
EN ISO 374-4:2019 Determination of resistance to degradation by chemicals
EN ISO 374-5:2016 Terminology and performance requirements for microorganisms risks

Medical Device Class I
EN 455-1: Requirements and testing for freedom from holes
EN 455-2: Requirements and testing for physical properties
EN 455-3: Requirements and testing for biological evaluation
EN 455-4: Requirements and testing for shelf life determination

Food contact approved

EN ISO 374-1: 2016/Type C

VIRUS
ISO 374-5:2016

EN ISO 210420

NON STERILE

LATEX FREE

AQL 1.5

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Quality Control System Certification

ISO 17025 Certification

China National Accreditation Service for Conformity Assessment

LABORATORY ACCREDITATION CERTIFICATE

(Registration No. CNAS L2647)

Analytical Center of Kingfa Science & Technology Co., Ltd.

(Legal Entity: Kingfa Science & Technology Co., Ltd.)

No.33, Kefeng Road, Science City, Hi-Tech Industrial Development Zone,
Guangzhou, Guangdong, China

is accredited in accordance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence to undertake the service described in the schedule attached to this certificate.

The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule forms an integral part of this certificate.

Effective Date：2019-09-06

Expiry Date：2023-07-02

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment (CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Accreditation Cooperation Mutual Recognition Arrangement (APAC MRA).

The validity of the certificate can be checked on CNAS website at http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml.

Test Report EN 455

Test Report No. 7191250395-EEC21-WBH
dated 07 Jan 2021

TÜV SÜD PSB Singapore

Add value.
Inspire trust.

Note: This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.

SUBJECT:

Testing of Gloves submitted by Guangdong Kingfa Sci.& Tech. Co., Ltd.
on 10 Dec 2020.

TESTED FOR:

Guangdong Kingfa Sci.& Tech. Co., Ltd.
No. 28 Delong Avenue, Shijiao Town,
Qingcheng District,
Qingyuan City, Guangdong Province,
China

TEST DATE:

11 Dec 2020 to 02 Jan 2021

DESCRIPTION OF SAMPLES:

S/N	Product Description	Brand/ Model	Size	Colour	Lot No.	Expiry Date	Sample Received (pieces)	Manufacturer
1	Nitrile Examination Glove	KS-ST RT021	M	Blue	25007031	2023-07-15	444	Guangdong Kingfa Sci.& Tech. Co., Ltd.

Lot size as specified by client: 35,001 to 150,000 pieces

METHOD OF TEST:

1. EN 455-1:2020 Medical gloves for single use
   Part 1: Requirements and testing for freedom from holes

2. EN 455-2:2015 Medical gloves for single use
   Part 2: Requirements and testing for physical properties

3. EN 455-3:2015 Medical glove for single use
   Part 3: Requirements and testing for biological evaluation

TÜV SÜD PSB

Laboratory:
TÜV SÜD PSB Pte. Ltd.
TÜV SÜD @ IBP
15 International Business Park
Singapore 609937

Phone : +65-6778 7777
E-mail: info.sg@tuvsud.com
https://www.tuvsud.com/en-sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
TÜV SÜD @ IBP
15 International Business Park
Singapore 609937

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Test Report EN 455

Test Report No. 7191250395-EEC21-WBH
dated 07 Jan 2021

PSB Singapore

RESULTS:

Sample: Nitrile Examination Glove, KS-ST RT021, Blue, Size M

Table 1: Results for EN 455-1:2020

Clause	Tests	Requirements	No. of non-compliers allowed (pieces)	Number tested (pieces)	Actual no. of non-compliers found (pieces)	Inferred results
4 5	Freedom from holes	Shall not leak	7	200	2	Passed

Table 2: Results for EN 455-2:2015 Clauses 4-5

Clause	Tests	Requirements (Median)	Number tested (pieces)	Results (Median)	Inferred results
4	Dimensions a) Length (mm)	≥ 240	13	252	Passed
	b) Width (mm)	For Size M: 95 ± 10	13	96	Passed
5	Strength a) Force at break (N)	For nitrile examination gloves: ≥ 6.0	13	10.6	Passed
	b) Force at break after challenge testing (N) 7 days at (70±2)°C	For nitrile examination gloves: ≥ 6.0	13	9.3	Passed

Table 3: Results for EN 455-2:2015 Clause 7

Clause	Tests	Requirements	Results	Inferred results
7	Labelling	Manufacturers shall label the glove and/or the packaging with the date of manufacture in accordance with EN ISO 15223-1:2012 and EN 1041:2008+A1:2013. Date of manufacture is defined as the packaging date.	Comply	Passed

RESULTS (cont'd):

Sample: Nitrile Examination Glove, KS-ST RT021, Blue, Size M

Table 4: Results for EN 455-3:2015 Clauses 4.2-4.5

Clause	Tests	Requirements	Results / Remarks	Inferred results
4.2	Chemicals	Gloves shall not be dressed with talcum powder (magnesium silicate).	Glove is talcum powder-free glove, based on client's declaration letter	Passed
		Other chemicals	Manufacturer shall disclose upon request a list of chemical ingredients	NA
4.3 5.1	Endotoxins	< 20 EU/pair for gloves labelled with 'low endotoxin content'.	Not labelled with 'low endotoxin content'	NA
4.4 5.2	Powder-free gloves	For powder-free gloves: The total quantity of powder residues shall not exceed 2 mg per glove.	0.18 mg per glove	Passed
4.5 5.3	Proteins, leachable	The manufacturer shall strive to minimize the leachable protein level for gloves containing natural rubber latex.	Not natural rubber latex glove	NA

Table 5: Results for EN 455-3:2015 Clause 4.6

Clause	Tests	Requirements	Results
4.6	Labelling	In addition to the labelling specified in EN 1041:2008+A1:2013 and the relevant symbols given in EN ISO 15223-1:2012, the following requirements apply:	
		a) medical gloves containing natural rubber latex shall be labelled on the packaging of at least the smallest packaging unit with the EN ISO 15223-1:2012 symbol for latex;	NA
		The labelling shall include the following or equivalent warning statement together with the symbol: '(Product) contains natural rubber latex which may cause allergic reactions, including anaphylactic responses';	NA
		b) the labelling shall include a prominent indication of whether the glove is powdered or powder-free;	Comply
		c) sterile powdered gloves shall be labelled with the following or equivalent: 'CAUTION: Surface powder shall be removed aseptically prior to undertaking operative procedures in order to minimize the risk of adverse tissue reactions';	NA
		d) for any medical glove containing natural rubber latex the product labelling shall not include: - any term suggesting relative safety, such as low allergenicity, hypoallergenicity or low protein; - any unjustified indication of the presence of allergens;	NA
		e) if the manufacturer labels the gloves with the protein content, the process limit, measured as specified in 5.3 shall be given.	NA
		Inferred results	Passed

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Test Report EN 455

Test Report No. 7191250395-EEC21-WBH
dated 07 Jan 2021

PSB Singapore

REMARKS:

1. Labelling requirements are assessed based on the submitted packaging artwork by client.
2. NA: Not applicable for the submitted sample.

Yeo Poh Kwang
Associate Engineer

Wong Bee Hui
Product Manager
Medical Health Services (NAM)

APPENDIX:

Photo 1: Nitrile Examination Glove, KS-ST RT021, Blue, Size M

Photo 2: Packaging artwork for Nitrile Examination Glove, KS-ST RT021, Blue, Size M

Please note that this Report is issued under the following terms :

1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.

2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.

3. Nothing in this report shall be interpreted to mean that TÜV SÜD PSB has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.

4. This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to TÜV SÜD PSB or to the report or results furnished by TÜV SÜD PSB in any advertisements or sales promotion.

5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, 15 International Business Park Singapore 609937.

6. The tests carried out by TÜV SÜD PSB and this report are subject to TÜV SÜD PSB's General Terms and Conditions of Business and the Testing and Certification Regulations of the TÜV SÜD Group.

Effective 01 January 2021

Test Report EU Type Examination Certificate

EU TYPE EXAMINATION CERTIFICATE

intertek

CE

APPROVED BODY 0362

The gloves detailed herein meets the criteria of an EU Type Examination in accordance with Annex V, including the applicable clauses of the Essential Health and Safety Requirements of the PPE Regulation EU 2016/425 for Category III products.

This has been shown through satisfactory testing to EN ISO 21420:2020, EN ISO 374-1:2016 +A1 2018 EN ISO 374-2:2019, EN ISO 374-4:2013 and examination of the Technical File Documentation.

Following an EU Declaration of Product Conformity, you are hereby licensed to mark the product(s) detailed in accordance with Article 17 of the PPE Regulation EU 2016/425

ITS Testing Services (UK) Ltd.
Centre Court
Meridian Business Park
Leicester, LE19 1WD
United Kingdom
Phone: +44 (0)116 263 0330

Issued to : GUANGDONG KINGFA SCI.&TECH.CO., LTD.
NO.28 DELONG AVENUE, SHIJIAO TOWN, QINGCHENG DISTRICT, QINGYUAN CITY, GUANGDONG PROVINCE, CHINA

Issue Date : 12 November 2020

Expiry Date : 12 November 2025

Certificate No. : LECFI00381894

Product reference : Nitrile Gloves KS-ST RT021

EN ISO 21420:2020		**Performance level achieved**
General requirements		
Dexterity		5
Sizes		M/L
EN ISO 374-1:2016+A1 2018		
Protective gloves against dangerous Chemicals and Micro-organisms		
Chemical	Letter	Level
Sodium hydroxide 40%	K	2
Type		C
EN ISO 374-2:2019		**Pass/Fail**
Determination of resistance to penetration		
Water leak		Pass
Air leak		Pass
EN 374-4:2013 Determination of resistance to degradation by chemicals		**Pass / Fail**
Perforation test		Pass

The products detailed above shall also be subject to regular assessments in accordance with Module C2 of the PPE Regulation 2016/425

Assessor: P Williamson Date: 12/11/2020

Certification Manager: J moore Date: 12/11/2020

For and on behalf of ITS Testing Services (UK) Limited

EN ISO 374-4

SATRA Technology Centre Ltd
Wyndham Way, Telford Way, Kettering,
Northamptonshire, NN16 8SD United Kingdom
Tel: +44 (0) 1536 410000
Fax +44 (0) 1536 410626
email: info@satra.com
www.satra.com

0248

Customer details:	SATRA Technology Services (Dongguan) Ltd Unit 110, Xinzhongyin Garden Hongwei Road Xiping, Nancheng District DONGGUAN CITY Guangdong Province China 523079	SATRA reference:	CHM0305368/2048/LC /B
		Your reference:	CHT0305236
		Date of report:	21st December 2020
		Samples received:	23rd November 2020
		Date(s) work carried out:	16th to 21st December 2020

TECHNICAL REPORT

SATRA Technology Services (Dongguan) Ltd:

Customer: GUANGDONG KINGFA SCI.&TECH. CO., LTD
NO.28 Delong Avenue, Shijiao Town
Qingcheng District
Qingyuan
Guangdong
China

Subject: EN ISO 374-4:2019 determination of resistance to degradation by dangerous chemicals on gloves described as Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021.

Report signed by: Lucy Cove
Position: Technologist
Department: Chemical & Analytical Technology

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Test Report EN ISO 374-4

SATRA TECHNOLOGY

TECHNICAL REPORT

UKAS TESTING 0248

WORK REQUESTED:

Samples of gloves described as Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021 were received on the 23rd November 2020 for testing in accordance with EN ISO 374-4:2019.

SAMPLE SUBMITTED:

Sample described as Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021.

CONCLUSION:

When assessed in accordance with EN ISO 374-4:2019 the samples of gloves described as Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021 achieved the following degradation results:

Chemical	Mean degradation / %
40% Sodium hydroxide (CAS: 1310-73-2)	-65.6

TESTING REQUIRED:

- EN ISO 374-4:2019. Protective gloves against dangerous chemicals and micro-organisms. Part 4: Determination of resistance to degradation by chemicals.

RESULTS:

Sample description:	Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021		
Challenge chemical:	40% Sodium hydroxide (CAS: 1310-73-2)		
Test temperature / °C:	(23 ± 1)		
Degradation / %:	**Glove 1**	**Glove 2**	**Glove 3**
	-56.0	-61.2	-79.5
Mean degradation (DR) / %:	-65.6		
Standard deviation (σ_{DR}) / %:	12.4		
UoM / ± %:	9.1		
Appearance of samples after testing:	No change		

NOTE: Lining materials were removed from the specimen in order to perform the test.

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Test Report EN ISO 374-1

SATRA Technology Centre Ltd
Wyndham Way, Telford Way, Kettering,
Northamptonshire, NN16 8SD United Kingdom
Tel: +44 (0) 1536 410000
Fax +44 (0) 1536 410626
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www.satra.com

0248

Customer details:	SATRA Technology Services (Dongguan) Ltd Unit 110, Xinzhongyin Garden Hongwei Road Xiping, Nancheng District DONGGUAN CITY Guangdong Province China 523079	SATRA reference:	CHM0305368/2048/LC/A
		Your reference:	CHT0305236
		Date of report:	21st December 2020
		Samples received:	23rd November 2020
		Date(s) work carried out:	4th to 8th December 2020

TECHNICAL REPORT

SATRA Technology Services (Dongguan) Ltd:

Customer: GUANGDONG KINGFA SCI.&TECH. CO., LTD
NO.28 Delong Avenue, Shijiao Town
Qingcheng District
Qingyuan
Guangdong
China

Subject: EN 16523-1:2015+A1:2018 resistance to permeation by chemicals on gloves described as Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021.

Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

Tests marked ≠ fall outside the UKAS Accreditation Schedule for SATRA. All interpretations of results of such tests and the comments based upon them are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

The uncertainty of the results (UoM) in this report is based on a standard uncertainty multiplied by a coverage factor k=2, which provides a coverage probability of approximately 95%.

Report signed by: Lucy Cove
Position: Technologist
Department: Chemical & Analytical Technology

TECHNICAL REPORT

0248

WORK REQUESTED:

Samples of gloves described as Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021 were received on the 23rd November 2020 for testing in accordance with EN 16523-1:2015+A1:2018 and assessment in accordance with the requirements of EN ISO 374-1:2016+A1:2018.

SAMPLES SUBMITTED:

Samples described as Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021

CONCLUSION:

When assessed in accordance with the requirements of EN ISO 374-1:2016+A1:2018 the samples of gloves described as Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021 achieved the following performance levels:

Chemical	Performance level
40% Sodium hydroxide (CAS: 1310-73-2)	6

Full results are reported in the following tables.

TESTING REQUIRED:

- EN 16523-1:2015+A1:2018 - Determination of material resistance to permeation by chemicals - Part 1: Permeation by liquid chemical under conditions of continuous contact

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Test Report EN ISO 374-1

SATRA TECHNOLOGY

TECHNICAL REPORT

UKAS TESTING 0248

RESULTS AND REQUIREMENTS:

EN ISO 374-1:2016+A1:2018 - Protective gloves against dangerous chemicals and micro-organisms - Part 1: Terminology and performance requirements for chemical risks. Table 1: Permeation performance levels.

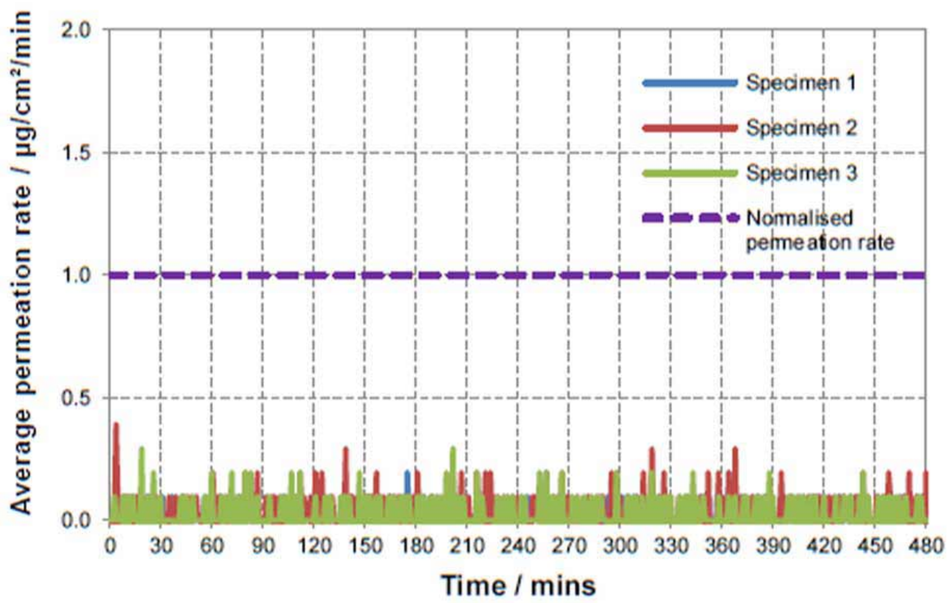
Permeation performance level	Measured breakthrough time (minutes)
1	>10
2	>30
3	>60
4	>120
5	>240
6	>480

Performance levels are based on the lowest individual result achieved per chemical.

Test/Property	Sample reference:	Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021		Performance
EN 16523-1:2015 +A1:2018 in accordance with SATRA SOP CAT-009 Using PTFE permeation cells with standardised dimensions	**Test information:**	Chemical: 40% Sodium hydroxide		**Level 6**
		Normalised permeation rate (NPR): 1 µg/cm²/min		
		Detection technique: Conductimetry (continuous measurement)		
		Collection medium: Deionised water (closed loop)		
		Collection medium stirring rate: (each cell constant to within ± 10%) 45 – 65 ml/min		
		Test temperature: (23 ± 1) °C		
	Specimen	**Thickness (mm)⌂**	**Breakthrough time (mins)**	
	1	0.09	>480	
	2	0.09	>480	
	3	0.09	>480	
		Test result:	**>480**	
		UoM:	**<1**	
Visual appearance of specimens after testing:		Discoloured		

PERMEATION RATE GRAPHS

Challenge chemical: 40% Sodium Hydroxide.



⌂ EN 16523-1:2015+A1:2018 does not require the test specimen thicknesses to be reported, this information is indicative only.

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Test Report EN ISO 374-2 / EN ISO 374-5

SATRA Technology Services (Dongguan) Ltd
Unit 110, Xinzhongyin Garden, Xiping
Nancheng District, Dongguan City
Guangdong Province, China
Tel: +86 (0) 769 22888020
email: info@satrafe.com

Customer details: Guangdong Kingfa Sci. & Tech. Co., Ltd
NO.28 Delong Avenue
Shijiao Town
Qingcheng District
Qingyuan City
Guangdong Province
China

SATRA reference: CHT0305236 /2047

Your reference: KS-ST RT021

Date of report: 10 December 2020

Samples received: 20 November 2020

Date(s) work carried out: 23 November 2020 to 1 December 2020

TECHNICAL REPORT

Subject: EN ISO 21420: 2020 size & dexterity & innocuousness test, EN ISO 374-2: 2019 air leak and water leak, EN ISO 374-5: 2016 viruses test on Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Size: S (6), M (7), L (8), XL (9), Reference number: KS-ST RT021.

Report signed by: Adam Zhang
Position: Technologist
Department: China Testing

Adam Zhang

TECHNICAL REPORT

WORK REQUESTED

Samples described as Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Size: S (6), M (7), L (8), XL (9), Reference number: KS-ST RT021 were received by SATRA on 20 November 2020 for testing in accordance with EN ISO 21420: 2020, EN ISO 374-2: 2019 and EN ISO 374-5: 2016.

SAMPLE SUBMITTED

Samples described as Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021

TESTING REQUESTED

EN ISO 21420: 2020 Clause 5.1 – Sizing and measurement of gloves
EN ISO 21420: 2020 Clause 5.2 – Dexterity
EN ISO 374-2: 2019 Clause 7.2 – Air leak
EN ISO 374-2: 2019 Clause 7.3 – Water leak
EN ISO 374-5: 2016 Clause 5.3 – Protection against viruses (ISO 16604: 2004 Procedure B)
EN ISO 21420: 2020 Clause 4.2 – Innocuousness of protective gloves

CONCLUSION

The samples described as Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Size: S (6), M (7), L (8), XL (9), Reference number: KS-ST RT021 were found to achieve the following results:

EN ISO 21420: 2020 Clause 5.1 – See below table
EN ISO 21420: 2020 Clause 5.2 – Level 5
EN ISO 374-2: 2019 Clause 7.2 – Pass
EN ISO 374-2: 2019 Clause 7.3 – Pass
EN ISO 374-5: 2016 Clause 5.3 – Pass
EN ISO 21420: 2020 Clause 4.2 – Pass PAHs, DMFA and pH value

Detailed results are included on the following page(s)

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Test Report EN ISO 374-2 / EN ISO 374-5

SATRA TECHNOLOGY

TECHNICAL REPORT

Testing

Testing was carried out in accordance with EN ISO 21420:2020, EN ISO 374-2: 2019.

Samples for testing were conditioned for at least 24 hours in a conditioned environment maintained at (23±2) °C and (50±5) % relative humidity.

Requirements

Table 1 – Requirements for EN ISO 21420: 2020 Clause 5.2 Dexterity

Performance level	1	2	3	4	5
Diameter of dexterity pin /mm	11.0	9.5	8.0	6.5	5.0

Table 2 – Requirements for EN ISO 374-2: 2019

Clause 7.2 Air leak	No leak to be detected
Clause 7.3 Water leak	No leak to be detected

Test Results

Table 3 – EN ISO 21420:2020 Test Results

Clause / Test	Requirement	Test Results				UoM (See note ♣)	Result
5.1 Glove length, comfort and fit	N/A	Size	Length /mm 1	2	3	± 1.10 mm	N/A
		9	242	243	245		
		Comfortable on fit					
		7	250	245	245		
		Comfortable on fit					
		8	245	240	244		
		Comfortable on fit					
		9	247	245	240		
		Comfortable on fit					
5.2 Dexterity	See table 1	Size	Minimum pin diameter / mm			N/A	Level 5
		6	5.0				
		7	5.0				
		8	5.0				
		9	5.0				

Table 4 – EN ISO 374-2: 2019 Test Results

Clause / Test	Test Results		UoM (See note ♣)	Result
7.2 Air leak test	Total air pressure used	3.0 kPa	N/A	Pass
	Sample size	Leaks		
	6	No leaks detected		
	7	No leaks detected		
	8	No leaks detected		
	9	No leaks detected		
7.3 Water leak test	Sample size	Leaks	N/A	Pass
	6	No leaks detected		
	7	No leaks detected		
	8	No leaks detected		
	9	No leaks detected		

Additional Information / Notes

Note ♣ – Estimated uncertainty of measurement applied at point of test (e.g. to applied force or to tolerance limits) to ensure product meets requirements of the standard

Test Report EN ISO 374-2 / EN ISO 374-5

SATRA TECHNOLOGY

TECHNICAL REPORT

Protection Against Viruses Test Results

Testing was conducted at a third-party laboratory and reported under their reference 20R006813. The laboratory is CNAS accredited to ISO 17025: 2017 with ISO 16604: 2004 included in their accreditation schedule.

Table 1 – Resistance to penetration by blood-borne pathogens results

Sample description:		Disposable Powder Free Nitrile Examination Gloves, Color: Blue, Reference number: KS-ST RT021.				
Test method	**Specimen**	**Step 1 (0 kPa, 5 min)**	**Step 2 (14 kPa, 1min)**	**Step 3 (0kPa, 4min)**	**Titre of phage Phi-X174 (PFU /mL)**	**Comment**
ISO 16604: 2004 Procedure B Using retaining screen	+ control	Penetration	Penetration	Penetration	Penetration	Acceptable
	- control	No penetration	No penetration	No penetration	< 1	Acceptable
	1	Invisible penetrate	Invisible penetrate	Invisible penetrate	< 1	Pass
	2	Invisible penetrate	Invisible penetrate	Invisible penetrate	< 1	Pass
	3	Invisible penetrate	Invisible penetrate	Invisible penetrate	< 1	Pass

Innocuousness Test Results

Testing was conducted at a third-party laboratory and reported under their reference A201123020001. The laboratory is CNAS accredited to ISO 17025: 2017.

Sample Item	Sample Description	Location	Style
I001	KS-ST RT021 Blue Disposable Powder Free Nitrile Examination Gloves	Gloves	-

pH Value - EN ISO 21420:2020

Test Method I : With reference to EN ISO 4045:2018, analyzed by pH meter.
Test Method II: With reference to ISO 3071:2020, analyzed by pH meter.

Requirement:	3.5-9.5

-	Unit	Result
Test Item(s)	-	**I001**
Test Method	-	**II**
Parameter	-	-
pH Value of Extracting Solution	-	5.50
Temp. of Aqueous Extract	deg. C	25.1
pH Value of Aqueous Extract	-	6.7
Difference Figure	-	-
Conclusion	-	PASS

Note / Key : deg. C = degree Celsius (°C) Temp. = Temperature
Remark: Result(s) was (were) reported the average value from two trials.
Tested part(s) was/were specified by client.

Test Report EN ISO 374-2 / EN ISO 374-5

SATRA TECHNOLOGY

TECHNICAL REPORT

Polycyclic Aromatic Hydrocarbons (PAHs) Content - EN ISO 21420:2020

Test Method : With reference to test method PD CEN ISO/TS 16190:2013

Maximum Allowable Limit:	**Each of all listed PAHs: 1.0 mg/kg**

Tested Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
I001	ND	ND	mg/kg	PASS

Note / Key : ND = Not detected(<Detection Limit) Detection Limit (mg/kg) : Each : 0.2;
mg/kg = milligram per kilogram = ppm = part per million

Remark: The list of polycyclic aromatic hyrdocarbons is summarized in table of Appendix.
Tested part(s) was/were specified by client.

APPENDIX

List of Polynuclear Aromatic Hydrocarbons:

No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Chrysene	218-01-9	5	Dibenzo (a,h) anthracene	53-70-3
2	Benzo (a) pyrene	50-32-8	6	Benzo (b) fluoranthene	205-99-2
3	Benzo (e) pyrene	192-97-2	7	Benzo (j) fluoranthene	205-82-3
4	Benzo (a) anthracene	56-55-3	8	Benzo (k) fluoranthene	207-08-9

Dimethylformamide(DMFA) Content - EN ISO 21420:2020

Test Method : With reference to EN 16778:2016, and then analyzed by Gas Chromatograph Mass Spectrometer.

Analyte	Unit	Result	Client's Requirement
		Test Item(s)	
		I001	
Dimethylformamide(DMFA)	mg/kg	ND	1000
Conclusion	-	PASS	-

Note / Key : ND = Not detected (<Detection Limit) Detection Limit (mg/kg) : 5
mg/kg = milligram per kilogram = ppm = part per million

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

EN ISO 374-1 / EN ISO 374-2 / EN 374-4

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CNAS L0220

TEST REPORT

Number: GZHT90996854

Date: Oct 27, 2020

Applicant: GUANGDONG KINGFA SCI.&TECH.CO.,LTD.
NO.28 DELONG AVENUE, SHIJIAO TOWN,
QINGCHENG DISTRICT, QINGYUAN CITY,
GUANGDONG PROVINCE,CHINA
Attn: XIAOGE YU

Sample Description:
Two Hundred (200) pairs of submitted samples protective gloves in Blue.

Standard	:	BS EN ISO 21420:2020 / ISO 21420:2020 EN ISO 374-1:2016+A1:2018 EN ISO 374-2:2019 EN 16523-1:2015+A1:2018 BS EN 374-4:2013 / EN 374-4:2013
Ref. No.	:	KS-ST RT021
Colors	:	--
Size Range	:	M/L
Manufacturer	:	GUANGDONG KINGFA SCI.&TECH.CO.,LTD.
Ref.	:	--
Palm	:	Nitrile
Back	:	Nitrile
Cuff	:	Nitrile
Cuff Binding	:	Nitrile
Lining	:	Nitrile
Country Of Origin	:	China
Goods Exported To	:	--
Date Received/Date Test Started:		Oct 16, 2020
Date Final Information Confirmed/		--/--
Date Payment Received:		

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

Authorized By:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch

Guiliang Dong
Senior Lab Manager

Authorized By:
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TEST REPORT Number: GZHT90996854

Tests Conducted (As Requested By The Applicant)

1 Glove Design And Construction - General (BS EN ISO 21420:2020 / ISO 21420:2020, 4.1)

Requirement	Yes	No	N/A
The Protective Glove Shall Be Designed And Manufactured So That In The Foreseeable Conditions Of Use, The Wearer Can Perform The Activity As Normally As Possible With An Appropriate Protection. This Document Along With The Appropriate Specific Standards Shall Be Used To Verify This Adequation.	X		
If Required In The Relevant Specific Standard (For Example ISO 16073:2011, 5.7.3), The Glove Shall Be Designed To Minimize The Donning And Doffing Time.	X		
For Reusable Multilayer Gloves, The Gloves Shall Be Able To Doffed Without Separation Of The Layers Of The Fingers. When The Glove Construction Includes Seams, The Material And Strength Of The Seams Shall Be Such That The Overall Performance Of The Glove Is Not Significantly Decreased As Required In The Relevant Specific Standards.			X

2 Dexterity (BS EN ISO 21420:2020 / ISO 21420:2020, 6.2)

	The Smallest Diameter Of Pin Picked Up
Specimen 1(Left Hand):	5 mm
Specimen 2(Right Hand):	5 mm
Specimen 3(Left Hand):	5 mm
Specimen 4(Right Hand):	5 mm
Performance Level:	5 (*)

Remark: * = The Classification Is Determined By The Smallest Diameter Of Pin Picked Up Of The Four Test Specimens.

Remark:

Level Of Performance	Smallest Diameter Of Pin Fulfilling Test Conditions
Level 1	11 mm
Level 2	9.5 mm
Level 3	8 mm
Level 4	6.5 mm
Level 5	5 mm

/ kayyu

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Tests Conducted (As Requested By The Applicant)

3 Glove Length (BS EN ISO 21420:2020 / ISO 21420:2020, 6.1)

Size M

Specimen 1	Glove Length: 242 mm
Specimen 2	Glove Length: 243 mm
Specimen 3	Glove Length: 243 mm

Size L

Specimen 1	Glove Length: 241 mm
Specimen 2	Glove Length: 243 mm
Specimen 3	Glove Length: 245 mm

4 Air Leak Test (EN ISO 374-2:2019, 7.2)

Test Air Pressure: 2.5 kPa

Sample	Specimen	1	2	3	4	Requirement	Pass/Fail
-	Examination Before Test:	No Tears, Rips And Holes On The Glove.	No Tears, Rips And Holes On The Glove.	No Tears, Rips And Holes On The Glove.	No Tears, Rips And Holes On The Glove.	*	Pass
	Observation After 30 Seconds:	No Leakage Of Air.	No Leakage Of Air.	No Leakage Of Air.	No Leakage Of Air.	*1	Pass

Remark: * = There Shall Be No Tears, Rips And Holes On The Glove.
*1 = There Shall Be No Leakage Of Air.

5 Water Leak Test (EN ISO 374-2:2019, 7.3)

Sample	Specimen	1	2	3	4	Requirement	Pass/Fail
-	Examination Before Test:	No Tears, Rips And Holes On The Glove.	No Tears, Rips And Holes On The Glove.	No Tears, Rips And Holes On The Glove.	No Tears, Rips And Holes On The Glove.	*	Pass
	Observation After 2 Minutes:	No Leakage Of Water.	No Leakage Of Water.	No Leakage Of Water.	No Leakage Of Water.	*1	Pass

Remark: * = There Shall Be No Tears, Rips And Holes On The Glove.
*1 = There Shall Be No Leakage Of Water.

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TEST REPORT Number: GZHT90996854
Tests Conducted (As Requested By The Applicant)

6 Marking (EN ISO 374-1:2016+A1:2018(E), 6)

Protective Gloves Against Dangerous Chemicals Shall Be Marked In Accordance With The Requirements For Protective Gloves In EN 420 And With The Following.

Requirements		Pass	Fail	N/A
EN 420:2003+A1:2009, 7.2.1 Glove Marking				
7.2.1.1	Each Protective Glove Shall Be Marked With The Following Information:			
a)	Name, Trade Mark Or Other Means Of Identification Of Manufacturer Or His Authorized Representative;	X		
b)	Glove Designation (Commercial Name Or Code Allowing The User To Identify Clearly The Product Within The Manufacturer's / Authorized Representative's Range);	X		
c)	Size Designation;	X		
d)	If Relevant, Marking According 7.2.3 Date Of Obsolescence: If The Protective Performances Of The Glove Can Be Significantly Affected By Ageing, i.e. One Or More Performance Levels Are Reduced Within A Year After Glove Production And Before Use, A Date Of Obsolescence Shall Be Indicated On Gloves And Packaging.	X		
e)	Where The Glove Conforms To One Or More Specific European Standards, The Pictogram(s) Appropriate To The Standard(s). Each Pictogram Shall Be Accompanied By The Reference Of The Applicable Specific Standard And Performance Levels, Which Shall Always Be In The Same Fixed Sequence As Defined In The Corresponding Standard.	X		
7.2.1.2	The Marking Shall Be Affixed So As To Be Visible, Legible And Indelible Throughout The Foreseeable Useful Life Of The Glove. Marks Or Inscriptions Which Could Be Confused With The Above Marks Shall Not Be Affixed To The Glove.			X
7.2.1.3	If Marking On The Glove Is Not Possible In View Of The Characteristics Of The Product, The Marking Shall Be Affixed To The Packaging.	X		
7.2.1.4	A Pictogram Shall Only Be Used When The Glove Meets At Least The Minimum Requirement Of The Relevant Specific Standard. It Shall Be Made Clear That Complementary Information Must Also Be Read, By Adding An I Standing For Information Along With The Series Of Pictograms.	X		

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Marking (EN ISO 374-1:2016+A1:2018(E), 6) (Cont)

Requirements	Pass	Fail	N/A
EN ISO 374-1:2016+A1:2018, 6.1 Marking Of Type A Gloves			
For Protective Gloves Complying With The Type A Requirements Stated In 5.5, The Pictograms In Figure 2 Shall Be Used With Reference To This Part Of ISO 374. The Six Tested Chemicals Shall Be Identified By Their Code Letter Which Shall Be Marked Under The Pictogram As Shown In Figure 2. If Other Chemicals Not Present In The List Have Been Tested, Information About The Performance Levels Shall Be Provided In The User Instructions.			X
EN ISO 374-1:2016+A1:2018, 6.2 Marking Of Type B Gloves			
For Protective Gloves Complying With The Type B Requirements Stated In 5.5, The Pictograms In Figure 3 Shall Be Used With Reference To This Part Of ISO 374. The Three Tested Chemicals Shall Be Identified By Their Code Letter Which Shall Be Marked Under The Pictogram As Shown In Figure 3. If Other Chemicals Not Present In The List Have Been Tested, Information About The Performance Levels Shall Be Provided In The User Instructions.			X
EN ISO 374-1:2016+A1:2018, 6.3 Marking Of Type C Gloves			
For Protective Gloves Complying With The Type C Requirements Stated In 5.5, The Pictograms In Figure 4 Shall Be Used With Reference To This Part Of ISO 374. The Tested Chemical(s) Shall Be Given In The User Instructions With Information About Its Performance Levels. If Other Chemicals Not Present In The List Have Been Tested, Information About The Performance Levels Shall Be Provided In The User Instructions.	X		

Compliance: The Submitted Sample **MEETS** The Requirements Of EN ISO 374-1:2016+A1:2018 Clause 6 For Marking.

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Test Report EN ISO 374-1 / EN ISO 374-2 / EN 374-4

TEST REPORT Number: GZHT90996854

Tests Conducted (As Requested By The Applicant)

7 Information Supplied By The Manufacturer (EN ISO 374-1:2016+A1:2018, 7)

The Information Supplied By The Manufacturer Shall Be In Accordance With The Requirements For Information As Defined In EN 420.

Requirements		Pass	Fail	N/A
EN 420:2003+A1:2009, 7.3				
The Following Minimum Information Shall Be Supplied When The Protective Glove Is Placed On The Market, And Shall Be Maintained Available.				
7.3.1	Name And Full Address Of The Manufacturer Or Authorized Representative.	X		
7.3.2	Glove Designation As Per 7.2.1.1 b).	X		
7.3.3	In Formation On The Available Size Range And Where Applicable, Information Required In 5.1.	X		
7.3.4	The Intended Use Of The Glove And Reference To The Relevant Specific Standard(s) And Publication Year.	X		
7.3.5	Where Applicable As Per 7.2.1.1 d) And 7.2.2 e), Pictogram(s) Indicating Categories Of Hazard Followed As Applicable By The Performance Levels. 0: Indicates That The Glove Falls Below The Minimum Performance Level For The Given Individual Hazard. X: Indicates That The Glove Has Not Been Tested Or The Test Method Appears Not To Be Suitable For The Glove Design Or Material. Furthermore, A Basic Explanation Shall Be Given To Assist Comprehension Of The Relevant Performance Levels, And The Standard(s) To Which They Refer Shall Be Indicated. The Reason(s) To Use "X" Shall Be Explained. Performance Level Shall Be In The Same Order As Given Within The Relevant Specific Standard. They May Be Positioned Anywhere Next To The Pictogram Provided That They Are In Clear Relation With It.	X		
7.3.6	When Protection Is Limited To Part Of The Hand Only, This Shall Be Mentioned.	X		
7.3.7	If Appropriate, Warnings Against Problems Likely To Be Encountered Or Limitation Of Use Shall Be Mentioned. As An Example, A Warning Could Be Given About The Use Of Tear Resistant Gloves Used In Close Proximity Of Rotating Machinery.			X
7.3.8	If The Materials Constituting The Gloves Are Known To Lose Their Performances During Recommended Storage, Information Shall Be Given To Ensure That The Storage Will Not Change The Glove Characteristics Significantly.	X		
7.3.9	If It Is Known That The Design Performance Of The Glove May Be Significantly Affected By Ageing, The Necessary Information To Establish A Reasonable Obsolescence Date As Requested In 7.2.1.1 f) Shall Be Given.	X		
7.3.10	A Warning For Glove Containing Any Natural Rubber, Such As: "The Glove Contains Natural Rubber Which May Cause Allergic Reactions".			X

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Information Supplied By The Manufacturer (EN ISO 374-1:2016+A1:2018, 7) (Cont)

The Information Supplied By The Manufacturer Shall Be In Accordance With The Requirements For Information As Defined In EN 420.

Requirements		Pass	Fail	N/A
EN 420:2003+A1:2009, 7.3				
7.3.11	Instructions Relevant To Donning, Doffing, Adjusting The Gloves, Preserving Comfort And Hygiene Of The Hand, Protection From Contamination Of The Hand, And Where Relevant Information Concerning Combination With Other Forms Of PPE.	X		
7.3.12	Any Relevant Instruction To Check The Integrity Of The Glove Before Using It (For Example Check That The Glove Does Not Present Holes, Cracks, Tears, Colour Change...., And Discard Any Glove Presenting Such Defects).	X		
7.3.13	Storage Instructions.	X		
7.3.14	If Cleaning According To 4.3 Is Claimed, Care Symbols According To Iso 3758 Or Explanations And An Acceptable Number Of Cleaning Cycles, Shall Be Provided. If Cleaning Is Not Recommended, It Shall Be Indicated That The Glove Is Not Washable. This Excludes Single-Use Gloves.			X
7.3.15	If Relevant, Test Results According To 4.4 Along With Reference Of Corresponding Standard, Atmosphere For Testing, Area Of The Glove Tested And Test Method/Electrode Used And The Voltage Applied As Per The Relevant Standard. Moreover, A Written Warning Shall Be Provided To Advise That All Clothing And Shoes Worn With This Type Of Glove Shall Also Be Designed Taking The Electrostatic Risk Into Account.			X
7.3.16	Reference To Accessories And Spare Parts, If Relevant, For Example Connection Systems Between Sleeve And Glove.			X
7.3.17	Type Of Packaging Suitable For Transport, If Relevant.	X		

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Test Report EN ISO 374-1 / EN ISO 374-2 / EN 374-4

TEST REPORT Number: GZHT90996854

Tests Conducted (As Requested By The Applicant)

Information Supplied By The Manufacturer (EN ISO 374-1:2016+A1:2018, 7) (Cont)

The Information Supplied By The Manufacturer Shall Be In Accordance With The Requirements For Information As Defined In EN 420.

Requirements	Pass	Fail	N/A
EN ISO 374-1:2016+A1:2018, 7			
It shall also include the results of 5.2 (Penetration), 5.3 (Degradation), 5.4 (Permeation), the list of all the chemicals to which the protective gloves have been tested and the performance levels obtained in permeation testing.	X		
The following warnings shall be added in the user instructions:			
"This information does not reflect the actual duration of protection in the workplace and the differentiation between mixtures and pure chemicals."	X		
"The chemical resistance has been assessed under laboratory conditions from samples taken from the palm only (except in cases where the glove is equal to or over 400 mm - where the cuff is tested also) and relates only to the chemical tested. It can be different if the chemical is used in a mixture."	X		
"It is recommended to check that the gloves are suitable for the intended use because the conditions at the workplace may differ from the type test depending on temperature, abrasion and degradation."	X		
"When used, protective gloves may provide less resistance to the dangerous chemical due to changes in physical properties. Movements, snagging, rubbing, degradation caused by the chemical contact etc. may reduce the actual use time significantly. For corrosive chemicals, degradation can be the most important factor to consider in selection of chemical resistant gloves"	X		
"Before usage, inspect the gloves for any defect or imperfections."	X		
For reusable gloves, the manufacturer shall provide the relevant instructions for decontamination.			X
If there is no information about decontamination, then it is intended for single use only and the following warning shall be added: "For single use only".	X		

Compliance: The Submitted Sample **MEETS** The Requirements Of EN ISO 374-1:2016+A1:2018 Clause 7 For Information Supplied By The Manufacturer .

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Tests Conducted (As Requested By The Applicant)

8 Resistance To Degradation By Chemicals (BS EN 374-4:2013 / EN 374-4:2013)

Specimens Condition: 23℃, 50% r.h. For 24 Hours
Treatment Of Test Specimens: No Treatment As No Liner Present
Test Chemical Used: Sodium Hydroxide 40%

Sample	Results		
	Degradation		Observations
-	DR1	+24.3%	After Test, Test Specimens Showed No Visible Damage
	DR2	+20.1%	After Test, Test Specimens Showed No Visible Damage
	DR3	+37.3%	After Test, Test Specimens Showed No Visible Damage
	DR	+27.2%	-

Remark: (+) Means Puncture Resistance Property Gets Worse.
DR= The Degradation Of The Test Sample Against Challenge Chemical Tested.
DR1= The Degradation Of The First Glove Specimen Against Challenge Chemical Tested.
DR2= The Degradation Of The Second Glove Specimen Against Challenge Chemical Tested.
DR3= The Degradation Of The Third Glove Specimen Against Challenge Chemical Tested.

9 Chemical Protective Clothing, Glove And Footwear Against Permeation Per EN 16523-1:2015+A1:2018

Tested Component	Results	Level	Break Through Time	Performance
Nitrile Protective Gloves In Blue	Thickness: 0.11 mm Permeation Breakthrough Time: >30 Mins Chemical: 40% Sodium Hydroxide Appearance: No Obvious Change	2	> 10 Mins > 30 Mins	1 2

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深圳天祥质量技术服务有限公司广州分公司
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Test Report EN ISO 374-1 / EN ISO 374-2 / EN 374-4

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CNAS L0220

TEST REPORT Number: GZHT90996854

Tests Conducted (As Requested By The Applicant)

10 Polycyclic Aromatic Hydrocarbons (PAH) Content:

As Per ISO/TS 16190:2013, By Solvent Extraction And Determined By Gas Chromatography - Mass Spectrometry (GC/MS)

No.	Tested Compound	CAS No.	Result (mg/kg)	Requirement (mg/kg)
1.	Benzo[a]pyrene (BaP)	50-32-8	ND	1.0
2.	Benzo[e]pyrene (BeP)	192-97-2	ND	1.0
3.	Benzo[a]anthracene (BaA)	56-55-3	ND	1.0
4.	Chrysene (CHR)	218-01-9	ND	1.0
5.	Benzo[b]fluoranthene (BbFA)	205-99-2	ND	1.0
6.	Benzo[j]fluoranthene (BjFA)	205-82-3	ND	1.0
7.	Benzo[k]fluoranthene (BkFA)	207-08-9	ND	1.0
8.	Dibenzo[a,h]anthracene (DBAhA)	53-70-3	ND	1.0

Remark: ND = Not Detected
Detection Limit = 0.2 mg/kg

Tested Component: Nitrile Protective Gloves In Blue

Conclusion:

Standard	Result
BS EN ISO 21420:2020 Protective Gloves - General Requirements And Test Methods - Polycyclic Aromatic Hydrocarbons (PAH) Content	Pass

11 pH Value

AS Per BS EN ISO 21420:2020, 4.2, With Reference To BS EN ISO 3071:2020 For Textile, Potassium Chloride (KCI) Solution Extracted, pH Value Was Measured By pH Meter.

	Result	Requirement
	6.6	*

Temperature Of The Extracting Solution: 23.5℃
pH Of The Extracting Solution: 5.80

Remark: * = The pH Value Shall Be Greater Than 3.5 And Less Than 9.5

Tested Component: Nitrile Protective Gloves In Blue

Conclusion:

Standard	Result
BS EN ISO 21420:2020 For pH Value	Pass

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End Of Report

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Test Report EN 1186

Test Report No.: 68.431.20.0384.01
Dated: 2021-01-08

Applicant	:	GUANGDONG KINGFA SCI.&TECH. CO., LTD. NO.28 Delong Avenue, Shijiao Town, Qingcheng District, Qingyuan City, Guangdong Province, China
Sample Description	:	Nitrile gloves
Style No. / Name / Design No.	:	KS-ST RT021
Supplier/Manufacturer	:	GUANGDONG KINGFA SCI.&TECH. CO., LTD.
Test Sample Receipt Date, Location	:	2020-12-07, Shenzhen
Test Period, Location	:	From 2020-12-07 to 2021-01-06, Shenzhen
Test Result(s)	:	Refer to Section 3

Laboratory:
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Nantou Checkpoint Road 2, 518052, P. R. China

Test Report No.: 68.431.20.0384.01
Dated: 2021-01-08

Purpose Of Examination / Conclusion:

Test Requested:	**As specified by client, to test per the selected requirement(s) for the tested item(s) as stated in the Regulation (EC) No.1935/2004**

No.	Test Item(s)	Conclusion
1.	**Overall Migration**	Pass
2	**Specific Migration of PAA**	Pass
3	**Specific Migration of Phthalates**	Pass
4	**Specific Migration of Butadiene (BU)**	Pass
5	**Phthalates Test**	Pass
6	**N-Nitrosamines and N-Nitrosatable substances Content**	Pass

Remarks:
(1) The results relate only to the items tested.
(2) Samples are tested as received.
(3) The test item and samples were specified by the client
(4) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expended uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.

TüV SüD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TüV SüD Group

Prepared by:

Hailey Tan
Project Engineer

Reviewed by:

Angelina Wang
Supervisor

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Test Report EN 1186

Test Report No.: 68.431.20.0384.01
Dated: 2021-01-08

1. Description of the Test Sample:

Sample Description	Nitrile gloves

2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Blue gloves (Rubber)	

Laboratory:
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Nantou Checkpoint Road 2, 518052, P. R. China

3. Test Result

3.1 Overall Migration

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V then test with reference to:
EN 1186-1:2002(Guide to the selection of conditions and test methods for overall migration)
EN 1186-2:2002(Oil by Total Immersion method)
EN 1186-3:2002(Total Immersion method)

SIMULANT USED	TEST CONDITIONS	RESULT [mg/dm²]	MAXIMUM PERMISSIBLE LIMIT [mg/dm²]
		SAMPLE 001	
3% Acetic acid	40 °C for 0.5 Hour	<3.0	<10
10% Ethanol	40 °C for 0.5 Hour	4.1	<10
Rectified olive oil	40 °C for 0.5 Hour	<3.0	<10

Note 1. "℃" denotes degree Celsius
2. "<" denotes less than
3. "mg/dm²" denotes milligram per square decimeter
4. The specification was quoted from Regulation (EU) No. 10/2011

3.2 Specific Migration of PAA

Test method: With reference to EN 1186-1: 2002.follow by UV spectrophotometer
Test Conditions: 3% Acetic Acid: 40 °C for 0.5 Hour

TEST ITEM	RESULT [mg/kg foodstuff]	MAXIMUM PERMISSIBLE LIMIT [mg/kg foodstuff]
	SAMPLE 001	
Primary Aromatic Amine	<0.01	<0.01
Conclusion	Pass	-

Note 1. "℃" denotes degree Celsius
2. "<" denotes less than
3. "mg/kg" denotes milligram per kilogram
4. The specification was quoted from Regulation (EU) No. 10/2011

Test Report EN 1186

Test Report No.: 68.431.20.0384.01
Dated: 2021-01-08

3.3 Specific Migration of Phthalates

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V, and followed by gas chromatography/Mass Spectrometry (GC-MS) analysis.

Test Conditions: 95% Ethanol: 40 °C for 0.5 Hour

TEST ITEM	RESULTS [mg/kg foodstuff]	MAXIMUM PERMISSIBLE LIMIT [mg/kg foodstuff]
	SAMPLE 001	
Dibutyl phthalate (DBP)	<0.30	0.3
benzyl butyl phthalate (BBP)	<1.0	30
Bis (2-ethylhexyl) phthalate (DEHP)	<0.30	1.5
adipic acid, bis(2-ethylhexyl) ester (DEHA)	<1.0	18
Bis(2-Ethylhexyl) Terephthalate (DEHTP)	<1.0	60
DINP+DIDP	<2.0	9
Conclusion	Pass	-

Note:
1. "mg/kg" denotes milligram per kilogram
2. "<" denotes less than

3.4 Specific Migration of Butadiene (BU)

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V, and followed by gas chromatography/Mass Spectrometry (GC-MS) analysis.

Test Conditions: 3% Acetic Acid: 40 °C for 0.5 Hour

TEST ITEM	RESULT [mg/kg foodstuff]	MAXIMUM PERMISSIBLE LIMIT [mg/kg foodstuff]
	SAMPLE 001	
Butadiene	<0.01	<0.01
Conclusion	Pass	-

Note 1. "℃" denotes degree Celsius
2. "<" denotes less than
3. "mg/kg" denotes milligram per kilogram

3.5 Phthalates Test

Solvent extraction in chloroform, followed by GC-MS
[Reporting Limit = 0.005%]

Test Items	CAS No.	Results [%]	Limit [%]
		Sample 001	
Benzyl butyl Phthalate, (BBP)	85-68-7	<0.005	<0.1
Di-isodecyl Phthalate, (DIDP)	26761-40-0 , 68515-49-1	<0.005	<0.1
Bis (2-ethylhexyl) Phthalate, (DEHP)	117-81-7	<0.005	<0.1
Di-isononyl Phthalate, (DINP)	28553-12-0 , 68515-48-0	<0.005	<0.1
Di-n-butyl Phthalate, (DnBP)	84-74-2	<0.005	<0.05
Conclusion		Pass	-

Note 1. "<" denotes less than
2. "%" denotes percent by weight
3. The specification was quoted from Regulation (EU) No. 10/2011

Test Report EN 1186

Test Report No.: 68.431.20.0384.01
Dated: 2021-01-08

3.6 N-Nitrosamines and N-Nitrosatable substances Content

Test Method: As per EN12868:2017, analyzed by high performance liquid chromatography with mass spectrometer detector (HPLC-MS-MS)
Test Conditions: 40 °C for 24 Hours

Test Item	CAS No.	RESULT [mg/kg]	
		Sample 001	
		N-Nitrosamines	N-Nitrosatable substances
N-Nitrosodimethylamine (NDMA)	62-75-9	<0.01	<0.1
N-Nitrosodiethylamine (NDEA)	55-18-5	<0.01	<0.1
N-Nitrosodipropylamine (NDPA)	621-64-7	<0.01	<0.1
N-nitrosodibutylamine (NDBA)	924-16-3	<0.01	<0.1
N-nitrosodiisnonylamine (NDiNA)	1207995-62-7	<0.01	<0.1
N-nitrosomorpholine (NMOR)	59-89-2	<0.01	<0.1
N-nitrosopiperidine (NPIP)	100-75-4	<0.01	<0.1
N-nitrosodibenzylamine (NDBzA)	5336-53-8	<0.01	<0.1
N-nitroso N-ethyl N-phenylamine (NEPhA)	612-64-6	<0.01	<0.1
NPYR+NMPhA	-	<0.01	<0.1
Sum of above	--	<0.01	<0.1
Limit	--	<0.01	<0.1

Note:
1. "mg/L" denotes milligram per litre
2. "<" denotes less than

-- END OF TEST REPORT--

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PACKING INFORMATION

Box

Size:220*125*68mm

Gross weight:390±10g

100PCS

Carton

10 boxs/carton

Size:365*235*270mm

Gross weight:4470±500g

1000PCS

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