

Issued to:

Nam Viet Glove Joint Stock Company 23a Nguyen Huu Canh St Ward 22 Binh Thanh District HCMC Vietnam

Notified Body: 2777

SATRA customer number: P1727

## **EU Type-Examination Certificate**

### Certificate number: 2777/14737-01/E00-00

This EU Type-Examination Certificate covers the following product group(s) supported by testing to the relevant standards/technical specifications and examination of the technical file documentation:

Following the EU Type-Examination this product group has been shown to satisfy the applicable essential health and safety requirements of Annex II of the PPE Regulation (EU) 2016/425 as a Category III product.

Product reference:

**Description:** 

NPF-FT30-24

Five Finger Powder Free Nitrile Gloves

NPF-FT35-24

NPF-FT37-24

NPF-FT40-24

NPF-FT55-24BK

Sizes:

S, M, L, XL

Classification:

EN ISO 374-1:2016 + A1:2018/ Type C

Level EN ISO 374-4:2019

Sodium hydroxide 40% Sulphuric acid 50% Formaldehyde 37% 6 11.8% 6 4.4% 2 43.0%

EN ISO 374-5:2016

Protection against bacteria and fungi

Pass

Protection against viruses

N/A

Standards/Technical specifications applied:

EN 420: 2003+A1: 2009; EN ISO 374-1:2016+A1:2018; BS EN ISO 374-4:2019; EN ISO 374-5:2016

Technical reports/Approval documents:

CHM0259430/1727/CL, CHM0255399/1711/SMcD, CHM0257912/1721/SMcD/B, CHM0257912/1721/SMcD/A, SPC0257773/1721

Signed on behalf of SATRA:

Date first issued: 26/06/2020 Date of issue: 26/06/2020 is Jakek

Gabriela Zajac

delaupool

Jacque Glasspool

Expiry date:

26/06/2025



PAGE: 1 of 4

Test Report No.

: CRSSA/200639443-CA38538

Company

: Nam Viet Glove Joint Stock Company 23A Nguyen Huu Canh Street, Ward 22,

Binh Thanh District, Ho Chi Minh City, Vietnam.

### TEST REPORT

Sample Description

NPF-FT40-24SB

Colour

Standard Blue

Size

Medium

Quantity Tested Test Conducted

200 pieces

Freedom from holes

Test Method

EN455 Part 1:2000

**Testing Period** 

27 May 2020 - 09 June 2020

Based on submitted samples, the following results obtained:-

Acceptable Quality Limit (AQL): 1.5

Accept: 7

Found: 0

Result

Within AQL

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**CHEE TUCK CHOON** SECTION HEAD IKM No. M/3983/6401/12/14

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PAGE: 2 of 4

Test Report No. : CRSSA/200639443-CA38538

Company : Nam Viet Glove Joint Stock Company

23A Nguyen Huu Canh Street, Ward 22,

Binh Thanh District, Ho Chi Minh City, Vietnam.

### TEST REPORT

Sample Description

NPF-FT40-24SB

Colour

Standard Blue

Size

. . . . .

Quantity Tested

Medium

Test Conducted

13 pieces Dimensions

Test Method

EN 455 Part 2:2015

**Testing Period** 

27 May 2020 – 09 June 2020

Based on submitted samples, the following results obtained :-

Size	M	M	M	M	M	M	M	M	M	M	M	M	M	Median
Width Median: 95±10mm	96	95	95	96	96	95	95	95	96	95	95	94	96	95
Length Median: ≥ 240mm	251	252	251	253	254	253	252	250	251	251	251	250	249	251

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: CRSSA/200639443-CA38538

Company

: Nam Viet Glove Joint Stock Company 23A Nguyen Huu Canh Street, Ward 22,

Binh Thanh District, Ho Chi Minh City, Vietnam.

### **TEST REPORT**

Sample Description

NPF-FT40-24SB

Colour

Standard Blue

Size

Medium

Quantity Tested

13 pieces per each

Test Conducted

Force at Break During Shelf Life and After Challenge

Test Method

EN 455 Part 2:2015

Ageing

 $70 \pm 2$  Deg C for 168 hrs

Testing Period

27 May 2020 – 09 June 2020

Force a	t Break,	N
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		Torce at	Di cun, 11
SIZE	SAMPLE NO.	BEFORE AGING	AFTER AGING
M	1	7.1	6.5
	2	8.1	6.9
	3	6.9	6.6
	4	6.8	8.0
	5	7.9	7.1
	6	6.6	7.4
	7	7.8	7.8
	8	7.4	7.2
	9	7.7	6.1
	10	8.0	6.7
	11	6.6	6.5
	12	7.8	6.8
	13	7.8	7.6
Median		7.7	6.9
Requirement		≥ 6.0	≥ 6.0

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Company : Nam Viet Glove Joint Stock Company 23A Nguyen Huu Canh Street, Ward 22,

Binh Thanh District, Ho Chi Minh City, Vietnam.

### TEST REPORT

Sample Description : NPF-FT40-24SB
Colour : Standard Blue
Size : Medium
Quantity Tested : 5 pieces

Test Conducted Powder Content
Test Method EN455 Part 3:2015

Testing Period 27 May 2020 – 09 June 2020

On testing the samples, the following results were obtained:-

SIZE Average Powder Mass per Glove

M 0.14 mg

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email: info@satra.com www.satra.com



Customer details: Nam Viet Glove Joint Stock Company

For the attention of: Ooi Loon Sena

23a Nguyen Huu Canh St

Ward 22

Binh Thanh District

**HCMC** Vietnam SATRA reference: CHM0257912/1721/

SMcD/A

Your reference:

9th June 2017 Date of report:

Samples received: 16th May 2017

Date(s) work

2<sup>nd</sup> to 8<sup>th</sup> June 2017 carried out:

## **TECHNICAL REPORT**

Subject: Chemical innocuousness testing in accordance with BS EN 420: 2003 + A1:

2009 on gloves described as NPF-FT30-24LB Powder free nitrile gloves-blue

### **Conditions of Issue:**

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

Report signed by:

S McDonald

Position:

Chemical Technologist

Department:

Chemical & Analytical Technology

(Page 1 of 4)

SATRA Technology Centre Ltd (a subsidiary of SATRA). Registered in England No. 3856296 at the above addr





### **WORK REQUESTED:**

Samples of gloves described as NPF-FT30-24LB Powder free nitrile gloves-blue were received on the 16<sup>th</sup> May 2017 for testing in accordance with the innocuousness requirements of BS EN 420:2003 + A1:2009 Protective Gloves - General Requirements and Test Methods.

### MATERIALS TESTED:

NPF-FT30-24LB Powder free nitrile gloves-blue

### CONCLUSIONS:

The samples of gloves described as NPF-FT30-24LB Powder free nitrile gloves-blue were assessed in accordance with the innocuousness requirements of BS EN 420:2003 + A1:2009 and were found to meet with the requirement for pH value.

As required under clause 4.3.1 General innocuousness of protective gloves, the samples of gloves described as NPF-FT30-24LB Powder free nitrile gloves-blue were found to meet the REACH annex XVII requirement for PAHs.

Full results are reported in the following tables.

### TESTS REQUIRED:

- BS EN 420:2003 Clause 4.3.2 pH Value (ISO 3071 for Textiles & other materials & ISO 4045 for leathers)
- #SATRA SOP CAT-018 Determination of PAHs (based on ZEK 01.4-08)

### **RESULTS AND REQUIREMENTS:**

BS EN 420:2003 + A1: 2009 Clause 4.3.2 pH value

Date of determination: 2<sup>nd</sup> June 2017

Sample	Method	pH Value	UoM	Pass/Fail
NPF-FT30-24LB Powder free nitrile gloves-blue	ISO 3071:2005 (water extraction)	7.6	± 0.1	Pass
Requirement	pH value greater t	han 3.5 and le	ss than 9.5	35 " 11

The extraction solution temperature was 25°C and at pH 7.1

Nam Viet Glove Joint Stock Company SATRA Reference: CHM0257912/1721/SMcD/A

Date:

9<sup>th</sup> June 2017

(Page 2 of 4)

Signed:





### **≠SATRA SOP CAT-018** – Determination of PAHs

Analysed by Gas Chromatography with Mass Spectrometry (GC-MS)

Sample	PAHs detected (mg/kg)	Pass/Fail
NPF-FT30-24LB Powder free nitrile gloves-blue	<0.2 (of each PAH listed in the appendices)	Pass
Requirements: REACH 1907/2006 annex XVII entry number 50	<1mg/kg of each PAH listed in the appendices	

### **APPENDICES:**

## REACH Regulation (EC) No 1907/2006 Annex XVII entry number 50 as amended by regulation 1272/2013

PAH	CAS Number	Requirements
Benzo[a]anthracene	56-55-3	Articles shall not be placed on the market for
Chrysene	218-01-9	supply to the general public, if any of their
Benzo[b]fluoranthene	205-99-2	rubber or plastic components that come into
Benzo[k]fluoranthene	207-08-9	direct as well as prolonged or short-term
Benzo[j]fluoranthene	205-82-3	repetitive contact with the human skin or the
Benzo[e]pyrene	192-97-2	oral cavity, under normal or reasonably
Benzo[a]pyrene	50-32-8	foreseeable conditions of use, contain more
Dibenzo[a,h]anthracene	53-70-3	than 1 mg/kg of any of the listed PAHs.



Gloves described as NPF-FT30-24LB Powder free nitrile gloves-blue

Nam Viet Glove Joint Stock Company

SATRA Reference:

CHM0257912/1721/SMcD/A

Date:

9th June 2017

(Page 3 of 4)

Signed:





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- iii. The above items are submitted to the Customer as confidential documents. Confidentiality shall continue to apply after completion of the business, but shall cease to apply to information or knowledge which may come into the public domain.

### 13. CONSTRUCTION AND ARBITRATION

The laws of England shall govern all contracts and the parties submit to exclusive jurisdiction of the courts of England, unless otherwise agreed.

Issue Date: 1st October 2009

Nam Viet Glove Joint Stock Company

SATRA Reference: CHM0257912/1721/SMcD/A

Date: 9th June 2017 (Page 4 of 4)

Signed: S. M. Vandd



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: <u>info@satra.com</u> www.satra.com



Customer details:

Nam Viet Glove Joint Stock Company

23a Nguyen Huu Canh St

Ward 22

Binh Thanh District

HCMC Vietnam

For the attention of: Ooi Loon Sena

SATRA reference: SPC0257773 /1721

Your reference:

Date of report: 3 June 2017

Samples received: 23 May 2017

Date(s) work

31 May to 3 June 2017

carried out:

## TECHNICAL REPORT

Subject:

Testing of gloves identified as NPF-FT30-24LB in accordance with EN 420: 2003 + A1:

2009 clauses 5.1 Sizing and 5.2 Dexterity and EN 374-2: 2014

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

Report signed by: Position:

Adam Mortiboys

Department:

PPE Technologist
Safety Product Testing

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adam martibays





### **Work Requested**

Samples of gloves, see Table 1, were received by SATRA, for testing in accordance with EN 420:2003+A1:2009 clauses 5.1 length and fit and 5.2 dexterity and EN 374-2:2014.

Table 1 - Samples Received

Sample description as stated by the client	Sizes submitted for testing	Colour of samples submitted	Approximate weight of one glove
NPF-FT30-24LB	S-XL	Blue	Size: XL Weight: 3.8g



### Conclusion

Standard	Clause / Property	Result
EN 420: 2003 + A1:	5.1 Length and fit	See note ■
2009	5.2 Dexterity	Level 5
PEN 074 0: 0014	7.2 Air leak	Pass
EN 374-2: 2014	7.3 Water leak	Pass

Note ■ – Where gloves do not meet the minimum length requirements specified in Table 1 of EN 420:2003 + A1:2009, the standard therefore requires that the manufacturer shall clearly state in the user instructions the intended application of the gloves and the reason why the gloves do not conform to the minimum length requirements.

Adam mortibays

Signed:





### **Testing**

Samples for testing were conditioned for at least 24 hours in a conditioned environment maintained at  $(23\pm2)$  °C and  $(50\pm5)$  % relative humidity. Testing was carried out within the same environment.

### Requirements

Table 2 - Requirements for EN 420:2003 + A1:2009 Clause 5 Size and Dexterity

Glove size	6	7	8	9	10	11
Minimum length / mm	220	230	240	250	260	270

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

Table 3 - Requirements for EN 374-2: 2014

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

Signed:

adam martibays





### **Test Results**

Table 4 - EN 420:2003 + A1:2009 Test Results for gloves identified as NPF-FT30-24LB

Clause / Test	Test Results			UoM	Result
3/	Size S Commer M	Length /n Left 245 hts on fit: Satisfacto 255	Right 247		
5.1 Glove length, comfort and fit	Commer L	nts on fit: Satisfacto 254 nts on fit: Satisfacto	253	± 0.3 mm	See note
		245 hts on fit: Satisfacto		LOC	
5.2 Dexterity	Size N S M	Minimum pin diame 5.0 5.0	eter / mm	N/A	Level 5
	L XL	5.0 5.0			

Table 5 - EN 374-2:2014 Test Results of gloves identified as NPF-FT30-24LB

Clause / Test	JUlian J	Test Results	UoM	Result
201 201	Total Air Pres Sample size	ssure Used 2.39 kPa Leaks	WE DO	JE Z
7.2 Air leak test	S M	No leaks detected No leaks detected	± 2.8 mmH <sub>2</sub> 0	Pass
170001	201 L 201	No leaks detected No leaks detected	: 20 ME	No INC
ME IN	Sample size	Leaks	7 30, 4	20
210,	3 S 3	No leaks detected	11 201	500
7.3 Water leak test	M	No leaks detected	N/A	Pass
20 5 20	KILLE	No leaks detected	11/2 " 1	30
IN THE	XL	No leaks detected	0, 10	

Signed:

Adam martibays





### **TERMS AND CONDITIONS OF BUSINESS**

### GENERAL

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- ii. Where SATRA has given consent to disclosure, the Customer shall draw the attention of the third party to these terms of business and the basis on which SATRA undertakes test, reporting and advising. The Customer shall indemnify SATRA for any failure to do so.
- iii. The above items are submitted to the Customer as confidential documents. Confidentiality shall continue to apply after completion of the business, but shall cease to apply to information or knowledge which may come into the public domain.

### 13. CONSTRUCTION AND ARBITRATION

The laws of England shall govern all contracts and the parties submit to exclusive jurisdiction of the courts of England, unless otherwise agreed.

Issue Date: 1st October 2009

Adam martibays

Signed:



23A Nguyen Huu Canh Street, Ward 22, Binh Thanh District, Ho Chi Minh City, Vietnam

## DECLARATION OF CONFORMITY

Manufacturer name or authorised representative: Nam Viet Glove Joint Stock Company

Manufacturer address: Hamlet 7, Phuoc Binh Commune, Long Thanh District, Dong Nai Province, Vietnam.

This declaration of confo	rmity is issued under the sole responsibility of the manufacturer, in
	X of PPE Regulation 2016/425:
it is hereby declared that	de la companya del companya de la companya del companya de la comp
Product name: Non-Ster	ile Powder Free Nitrile Gloves
is in conformity with the	applicable requirements of the following Harmonised Standards:
Reference Standards	Title
EN ISO 374-	Protective gloves against dangerous chemicals and micro-organisms -
1:2016+A1:2018	Part 1: Terminology and performance requirements for chemical risks
EN ISO 374-4:2019	Protective gloves against dangerous chemicals and micro-organisms – Part 4: Determination of resistance to degradation by chemicals
EN ISO 374-5:2016	Protective gloves against dangerous chemicals and micro-organisms - Part 5: Terminology and performance requirements for micro-organisms
EN 420:2003+A1:2009	risks Protective gloves. General requirements and test methods
	ne (where applicable): SATRA Technology Furone Ltd (Notified Body

Notified body name and no. (where applicable): SATRA Technology Europe Ltd (Notified Body 2777)

Notified body certificate no. issued (where applicable): 2777/14737-01/E00-00

I hereby declare that the PPE named above has been manufactured to comply with the relevant sections of the above referenced specifications and complies with all applicable Essential Health and Sections for Essential PPE regulation 2016/425

Signed for and on behalf of:

cổ phần Gảng Tay NAM VIỆT

Name: Nguyen Huu Triet Place okissue: Ho Chi Minh Position: Chief Commercial Officer

Date of issue: 30/06/2020



Head Office and Operative Site:

23A Nguyen Huu Canh, Binh Thanh District, Ho Chi Minh City, Vietnam

Operative Unit: Hamlet 7, Phuoc Binh Commune, Long Thanh District, Dong Nai Province, Vietnam

Bureau Veritas Italia S.p.A. certify that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

Standard

## EN ISO 13485:2016

Scope of certification

Manufacture of non sterile powder free latex and nitrile examination gloves.

Certification awarded in conformity with the requirements of ACCREDIA DT 02-DC REV.00

Certification cycle start date: 31 January 2019

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: 01 February 2022

Original certification date: 02 February 2016

Certificate No. IT287017

Version N.1 Revision date: 31 January 2019

NDREA FILIPPI - Local Technical Manager

Certification 6ody address: Bureau Veritas Italia spa, Viale Monza , 347, 20126 Milano, Italia

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation. To check this certificate validity please refer to the website <a href="http://www.bureauveritas.it/certificate">http://www.bureauveritas.it/certificate</a>



GQ N° 009A SGE N° 009 GA N° 008D EMAS N° 004 RD N° 009B GHG N° 008 CCR N° 008F 15P N° 005 SMS N° 0031 SSI N° 013 RS N° 076C



HEAD OFFICE: 23A NGUYEN HUU CANH STREET, WARD 22, BINH THANH DISTRICT, HO CHI MINH CITY, VIETNAM

This is a multi-site certificate, additional site(s) are listed on the next page(s)

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System standards detailed below.

Standard

ISO 9001:2015

Scope of certification

### MANUFACTURE OF NON STERILE POWDER FREE LATEX AND NITRILE EXAMINATION GLOVES FOR USE IN THE MEDICAL. FOOD AND INDUSTRIAL SECTORS

Original cycle start date:

01 March 2016

Expiry date of previous cycle:

**28 February 2019** 

Recertification Audit date:

23 August 2018

Recertification cycle start date:

14 September 2018

Subject to the continued satisfactory operation of the organization's Management

System, this certificate expires on:

28 February 2022

Certificate no.: VN.4277793/Q Version: 1 Revision date: 14 September 2018

NGUYEN TU HAI

Certification body address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom

Local Office:

Unit 4.4A, 4th Floor, E-Town 1 Bullding, 364 Cong Hoa Street, Tan Binh District, Ho Chi Minh City, Vietnam

0008

Further clarifications regarding the scope of this certificate and the applicability of the Management System requirements may be obtained by consulting the organization. To check this certificate validity, please call +84-28-3812 2246.



Standard

ISO 9001:2015

Scope of certification

## HEAD OFFICE: MANUFACTURING MANAGEMENT OF NON STERILE POWDER FREE LATEX AND NITRILE EXAMINATION GLOVES FOR USE IN THE MEDICAL, FOOD AND INDUSTRIAL SECTORS

Site Name/ Location	Site addition Date	Site Address	Site Scope
FACTORY	01 March 2016	HAMLET 7, PHUOC BINH COMMUNE, LONG THANH DISTRICT, DONG NAI PROVINCE, VIETNAM	MANUFACTURE OF NON STERILE POWDER FREE LATEX AND NITRILE EXAMINATION GLOVES FOR USE IN THE MEDICAL, FOOD AND INDUSTRIAL SECTORS

Certificate no.: VN.4277793/Q Version: 1 Revision date: 14 September 2018

**NGUYEN TU HAI** 

Certification body address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom

Local Office:

Unit 4.4A, 4th Floor, E-Town 1 Building,364 Cong Hoa Street, Tan Binh District, Ho Chi Minh City, Vietnam

Further clarifications regarding the scope of this certificate and the applicability of the Management System requirements may be obtained by consulting the organization. To check this certificate validity, please call +84-28-3812 2246.

0008

Date:

23 FEB 2017

Tel: +65 68851312 Fax: +65 67784301

Client's Ref:

Email: zhou.xiao@tuv-sud-psb.sg

**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**

Overall Migration for "PF Nitrile Gloves (Blue)" Sample

### **CLIENT**

Nam Viet Glove Joint Stock Company 23A Nguyen Huu Canh, Ward 22 Binh Thanh District Ho Chi Minh City Vietnam

Attn: Mdm Ooi Loon Seng

### SAMPLE SUBMISSION DATE

12 Jan 2017

# TÜV

### DESCRIPTION OF SAMPLE

Three packets of glove samples labelled as follows were received. The test was confirmed to be analysed on 14 Feb 2017.

No	Description	Product Code	Size
1	PF Nitrile Gloves (Blue)	NPF-FT35-24SB	М

### **DATE OF ANALYSIS**

16 Feb 2017 - 23 Feb 2017



Laboratory: TÜV SÜD PSB Pte. Ltd. No.1 Science Park Drive Singapore 118221 Phone: +65-6885 1333 Fax: +65-6776 8670 E-mail: enquiries@tuv-sud-psb.sg www.tuv-sud-psb.sg Co, Reg: 199002667R Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
TÜV®

23 FEB 2017



### **METHOD OF TEST**

### 1. Preparation of Test Specimen

Only the exterior of the glove sample was performed for the test.

### 2. Overall Migration Content with Aqueous Food Simulant (10% Ethanol)

According to BS EN 1186-9:2002 – Test Methods for overall migration into aqueous food simulants by article filling.

### **RESULTS**

Table 1 : Overall Migration Content with Food Simulants for the "PF Nitrile Gloves (Blue)" Sample

Type of Simulant*	Testing Condition*	Surface Area (dm²)	Volume of Extractant (ml)	Overall Migration (mg/dm²)	Commission Regulation (EU) No 10/2011 Requirement for Overall Migration Content (mg/dm²)
1. 10% Ethanol	40 °C, 30 mins	4.92	250	<1.0	<10
2. 10% Ethanol	40 °C, 1 hour	5.03	250	<1.0	<10

<sup>\*</sup>The type of simulant and test condition were requested by the client.

Based on the above results, the "PF Nitrile Gloves (Blue)" sample met the overall migration requirement under Commission Regulation (EU) No 10/2011 – "Plastic materials and articles shall not transfer their constituents to foodstuffs in quantities exceeding 10 milligrams of total constituents released per dm² of food contact surface (mg/dm²) (overall migration limit)".

MS TAN SER LING

**TECHNICAL EXECUTIVE** 

DR XIAO ZHOU

PRODUCT MANAGER
MICROCONTAMINATION DIAGNOSIS
CHEMICAL & MATERIALS

23 FEB 2017



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- 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.
- 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.
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- 5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.



Date:

09 MAR 2017

Tel: +65 68851312 Fax: +65 67784301

Client's Ref:

Email: zhou.xiao@tuv-sud-psb.sg

**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**

Overall Migration for "PF Nitrile Gloves (Blue)" Sample

### **CLIENT**

Nam Viet Glove Joint Stock Company 23A Nguyen Huu Canh, Ward 22 Binh Thanh District Ho Chi Minh City Vietnam

Attn: Mdm Ooi Loon Seng

### SAMPLE SUBMISSION DATE

02 Mar 2017

### DESCRIPTION OF SAMPLE

One packet of glove samples labelled as follows was received.

No	Description	Product Code	Size
1	PF Nitrile Gloves (Blue)	NPF-FT30-24SB	М

### **DATE OF ANALYSIS**

02 Mar 2017 - 09 Mar 2017



Laboratory: TÜV SÜD PSB Pte. Ltd. No.1 Science Park Drive Singapore 118221 Phone: +65-6885 1333 Fax: +65-6776 8670 E-mail: enquiries@tuv-sud-psb.sg

www.tuv-sud-psb.sg Co. Reg: 199002667R Regional Head Office: TÜV SÜD Asia Pacific Pte. Ltd. 1 Science Park Drive, #02-01 Singapore 118221

09 MAR 2017



### **METHOD OF TEST**

### 1. Preparation of Test Specimen

Only the exterior of the glove sample was performed for the test.

2. Overall Migration Content with Aqueous Food Simulant (Deionized Water & 10% Ethanol)

According to BS EN 1186-9:2002 – Test Methods for overall migration into aqueous food simulants by article filling.

### 3. Overall Migration Content with Isooctane

According to BS EN 1186-14:2002 – Test Methods for "substitute tests" for overall migration from plastics intended to come into contact with fatty foodstuffs using test media Isooctane and 95% Ethanol.

4. Overall Migration Content with Fatty Food Simulant (Olive Oil):

According to BS EN 1186-8:2002 – Test Methods for overall migration into olive oil by article filling.

### **RESULTS**

Table 1: Overall Migration Content with Food Simulants for the "PF Nitrile Gloves (Blue)" Sample

Type of Simulant*	Testing Condition*	Surface Area (dm²)	Volume of Extractant (ml)	Overall Migration (mg/dm²)	Commission Regulation (EU) No 10/2011 Requirement for Overall Migration Content (mg/dm²)
1. Deionized Water	40 °C, 24 hours	4.83	240	6.4	<10
2. Isooctane	40 °C, 2 hours	4.81	240	3.3	<10
3. 10% Ethanol	40 °C, 5 mins	4.83	240	<1.0	<10
4. 10% Ethanol	40 °C, 30 mins	4.88	240	1.5	<10
5. Vegetable Oil (Olive Oil)	40 °C, 2 hours	4.89	240	<1.0	<10

<sup>\*</sup>The type of simulant and test condition were requested by the client.

Based on the above results, the "PF Nitrile Gloves (Blue)" sample met the overall migration requirement under Commission Regulation (EU) No 10/2011 – "Plastic materials and articles shall not transfer their constituents to foodstuffs in quantities exceeding 10 milligrams of total constituents released per dm² of food contact surface (mg/dm²) (overall migration limit)".

MS TAN SER LING
TECHNICAL EXECUTIVE

DR XIAO ZHOU
PRODUCT MANAGER
MICROCONTAMINATION DIAGNOSIS
CHEMICAL & MATERIALS

09 MAR 2017



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Date:

24 JAN 2017

Tel: +65 68851312 Fax: +65 67784301

Client's Ref:

Email: zhou.xiao@tuv-sud-psb.sg

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**

Overall Migration for "PF Nitrile Gloves (Blue)" Sample

### **CLIENT**

Nam Viet Glove Joint Stock Company 23A Nguyen Huu Canh, Ward 22 Binh Thanh District Ho Chi Minh City Vietnam

Attn: Mdm Ooi Loon Seng

### SAMPLE SUBMISSION DATE

12 Jan 2017

### DESCRIPTION OF SAMPLE

Three packets of glove samples labelled as follows were received

No	Description	Product Code	Size
1	PF Nitrile Gloves (Blue)	NPF-FT35-24SB	М

### **DATE OF ANALYSIS**

16 Jan 2017 - 24 Jan 2017



Laboratory: TÜV SÜD PSB Pte. Ltd. No.1 Science Park Drive Singapore 118221 Phone: +65-6885 1333
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TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
TUV®

24 JAN 2017



### **METHOD OF TEST**

### 1. Preparation of Test Specimen

Only the exterior of the glove sample was performed for the test.

### 2. Overall Migration Content with Aqueous Food Simulant (Deionised Water & 10% Ethanol)

According to BS EN 1186-9:2002 – Test Methods for overall migration into aqueous food simulants by article filling.

### 3. Overall Migration Content with Isooctane

According to BS EN 1186-14:2002 – Test Methods for "substitute tests" for overall migration from plastics intended to comet into contact with fatty foodstuffs using test media isooctane and 95% Ethanol.

### **RESULTS**

Table 1: Overall Migration Content with Food Simulants for the "PF Nitrile Gloves (Blue)" Sample

Type of Simulant*	Testing Condition*	Surface Area (dm²)	Volume of Extractant (ml)	Overall Migration (mg/dm²)	Commission Regulation (EU) No 10/2011 Requirement for Overall Migration Content (mg/dm²)
1. Deionized Water	40 °C, 24 hours	4.92	250	5.2	<10
2. Isooctane	40 °C, 2 hours	4.99	250	2.2	<10
3. 10% Ethanol	40 °C, 5 mins	4.93	250	<1.0	<10

<sup>\*</sup>The type of simulant and test condition were requested by the client.

Based on the above results, the "PF Nitrile Gloves (Blue)" sample met the overall migration requirement under Commission Regulation (EU) No 10/2011 – "Plastic materials and articles shall not transfer their constituents to foodstuffs in quantities exceeding 10 milligrams of total constituents released per dm² of food contact surface (mg/dm²) (overall migration limit)".

MS TAN SER LING

**TECHNICAL EXECUTIVE** 

**DR XIAO ZHOU** 

PRODUCT MANAGER
MICROCONTAMINATION DIAGNOSIS
CHEMICAL & MATERIALS

24 JAN 2017



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Date:

24 JAN 2017

Tel: +65 68851312 Fax: +65 67784301

Client's Ref:

Email: zhou.xiao@tuv-sud-psb.sg

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### **SUBJECT**

Overall Migration for "PF Nitrile Gloves (Blue)" Sample

### **CLIENT**

Nam Viet Glove Joint Stock Company 23A Nguyen Huu Canh, Ward 22 Binh Thanh District Ho Chi Minh City Vietnam

Attn: Mdm Ooi Loon Seng

### SAMPLE SUBMISSION DATE

12 Jan 2017

### **DESCRIPTION OF SAMPLE**

Three packets of glove samples labelled as follows were received.

No	Description	Product Code	Size	
1	PF Nitrile Gloves (Blue)	NPF-FT35-246B	М	

### **DATE OF ANALYSIS**

16 Jan 2017 - 24 Jan 2017



Laboratory: TÜV SÜD PSB Pte. Ltd. No.1 Science Park Drive Singapore 118221 Phone : +65-6885 1333 Fax : +65-6776 8670 E-mail: enquiries@tuv-sud-psb.sg

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1 Science Park Drive, #02-01
Singapore 118221
TUV®

24 JAN 2017



### **METHOD OF TEST**

### 1. Preparation of Test Specimen

Only the exterior of the glove sample was performed for the test.

2. Overall Migration Content with Aqueous Food Simulant (Deionised Water & 10% Ethanol)

According to BS EN 1186-9:2002 – Test Methods for overall migration into aqueous food simulants by article filling.

3. Overall Migration Content with Isooctane

According to BS EN 1186-14:2002 – Test Methods for "substitute tests" for overall migration from plastics intended to comet into contact with fatty foodstuffs using test media isooctane and 95% Ethanol.

### **RESULTS**

Table 1: Overall Migration Content with Food Simulants for the "PF Nitrile Gloves (Blue)" Sample

Type of Simulant*	Testing Condition*	Surface Area (dm²)	Volume of Extractant (ml)	Overall Migration (mg/dm²)	Commission Regulation (EU) No 10/2011 Requirement for Overall Migration Content (mg/dm²)
1. Deionized Water	40 °C, 24 hours	4.92	250	5.2	<10
2. Isooctane	40 °C, 2 hours	4.99	250	2.2	<10
3. 10% Ethanol	40 °C, 5 mins	4.93	250	<1.0	<10

<sup>\*</sup>The type of simulant and test condition were requested by the client.

Based on the above results, the "PF Nitrile Gloves (Blue)" sample met the overall migration requirement under Commission Regulation (EU) No 10/2011 – "Plastic materials and articles shall not transfer their constituents to foodstuffs in quantities exceeding 10 milligrams of total constituents released per dm² of food contact surface (mg/dm²) (overall migration limit)".

MS TAN SER LING

TECHNICAL EXECUTIVE

DR XIAO ZHOU

PRODUCT MANAGER
MICROCONTAMINATION DIAGNOSIS

**CHEMICAL & MATERIALS** 

24 JAN 2017



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