

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

SATRA reference: SPC0257773 /1721

Your reference:

Date of report: 3 June 2017

Samples received: 23 May 2017

For the attention of: Ooi Loon Seng

Date(s) work carried out: 31 May to 3 June 2017

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

Conditions of Issue:

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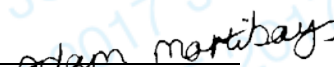
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The uncertainty of the results (UoM) in this report is based on a standard uncertainty multiplied by a coverage factor $k=2$, which provides for a confidence level of approximately 95%.

Report signed by: Adam Mortiboys
Position: PPE Technologist
Department: Safety Product Testing



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: 2009	5.1 Length and fit	See note ■
	5.2 Dexterity	Level 5
EN 374-2: 2014	7.2 Air leak	Pass
	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.

Testing

Samples for testing were conditioned for at least 24 hours in a conditioned environment maintained at $(23 \pm 2)^\circ\text{C}$ and $(50 \pm 5)\%$ 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

Test Results

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

Clause / Test	Test Results		UoM	Result
5.1 Glove length, comfort and fit	Size	Length /mm		
	S	Left 245 Right 247		
	Comments on fit: Satisfactory			
	M	255 254		
	Comments on fit: Satisfactory			
	L	254 253		
	Comments on fit: Satisfactory			
	XL	245 244		
	Comments on fit: Satisfactory			
			± 0.3 mm	See note
5.2 Dexterity	Size	Minimum pin diameter / mm		
	S	5.0		
	M	5.0		
	L	5.0		
	XL	5.0		
			N/A	Level 5

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

Clause / Test	Test Results		UoM	Result
7.2 Air leak test	Total Air Pressure Used 2.39 kPa			
	Sample size	Leaks		
	S	No leaks detected		
	M	No leaks detected		
	L	No leaks detected		
	XL	No leaks detected		
			± 2.8 mmH ₂ O	Pass
7.3 Water leak test	Sample size	Leaks		
	S	No leaks detected		
	M	No leaks detected		
	L	No leaks detected		
	XL	No leaks detected		
			N/A	Pass

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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

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

SATRA reference: CHM0257912/1721/
SMcD/B

Your reference:

Date of report: 9th June 2017

Samples received: 16th May 2017

For the attention of: Ooi Loon Seng

Date(s) work
carried out: 6th June 2017

TECHNICAL REPORT

Subject: BS EN 374-4: 2013 determination of resistance to degradation by chemicals on
gloves described as NPF-FT30-24LB Powder free nitrile gloves-blue

Conditions of Issue:

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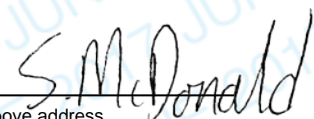
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Report signed by: S McDonald
Position: Chemical Technologist
Department: Chemical & Analytical Technology



WORK REQUESTED:

Samples of gloves described as NPF-FT30-24LB Powder free nitrile gloves-blue were received on the 16th May 2017 for testing in accordance with BS EN 374-4:2013. Full results are given below.

CONCLUSION:

When assessed in accordance with BS EN 374-4:2013 the samples of gloves described as NPF-FT30-24LB Powder free nitrile gloves-blue achieved the following degradation results:

Chemical	Mean degradation / %
Formaldehyde (CAS: 50-00-0)	43.0
40% Sodium hydroxide (CAS: 1310-73-2)	11.8
96% Sulphuric acid (CAS: 7664-93-9)	100.0

NOTE: The quoted mean degradation values are subject to often significant measurement uncertainties. Please see results tables below for more information

TESTING REQUIRED:

- BS EN 374-4:2013. Protective gloves against chemicals and micro-organisms. Part 4: Determination of resistance to degradation by chemicals.

RESULTS:

Sample description:	NPF-FT30-24LB Powder free nitrile gloves-blue		
Challenge chemical:	Formaldehyde (CAS: 50-00-0)		
Test temperature / °C:	(23 ± 1)		
Degradation / %:	Glove 1	Glove 2	Glove 3
	41.7	56.1	31.1
Mean degradation (DR) / %:	43.0		
Standard deviation (σ_{DR}) / %:	12.5		
UoM \diamond / \pm %:	21.5		
Appearance of samples after testing:	No change		

Sample description:	NPF-FT30-24LB Powder free nitrile gloves-blue		
Challenge chemical:	40% Sodium hydroxide (CAS: 1310-73-2)		
Test temperature / °C:	(23 ± 1)		
Degradation / %:	Glove 1	Glove 2	Glove 3
	-14.2	34.9	14.7
Mean degradation (DR) / %:	11.8		
Standard deviation (σ_{DR}) / %:	24.7		
UoM ♦ / ± %:	27.1		
Appearance of samples after testing:	No change		

Sample description:	NPF-FT30-24LB Powder free nitrile gloves-blue		
Challenge chemical:	96% Sulphuric acid (CAS: 7664-93-9)		
Test temperature / °C:	(23 ± 1)		
Degradation / %:	Glove 1	Glove 2	Glove 3
	100.0	100.0	100.0
Mean degradation (DR) / %:	100.0		
Standard deviation (σ_{DR}) / %:	0.0		
UoM ♦ / ± %:	16.7		
Appearance of samples after testing:	Discoloured and degraded		

♦ Absolute measurement uncertainty of the mean degradation value; it is therefore inferred that the true degradation value, with 95% confidence, lies within the range (DR ± UoM) %.

NOTE: Where the test specimens gave an increased puncture force after chemical exposure, the result is reported as a negative degradation.

APPENDICES:



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

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Issue Date: 1st October 2009

NAM VIET GLOVE JOINT STOCK COMPANY

23A Nguyen Huu Canh St, Ward 22, Binh Thanh Dist, Ho Chi Minh city, Viet Nam


Website: <https://www.navigloves.com/>

DECLARATION OF CONFORMITY MEDICAL DEVICE, CLASS 1 PPE CATEGORY 3

We, **NAM VIET GLOVE JOINT STOCK COMPANY**, herewith declares that the following mentioned product is manufactured in conformity with the PPE Regulation (EU) 2016/425 and its relevant transportation into all national laws of the member states into which we place the devices and Harmonised Standards as listed below.

All supporting documentation is related under the premises of the manufacturer.

MANUFACTURER OFFICE ADDRESS FACTORY ADDRESS	NAM VIET GLOVE JOINT STOCK COMPANY 23A Nguyen Huu Canh St, Ward 22, Binh Thanh Dist, Ho Chi Minh city, Viet Nam Hamlet 7, Phuoc Binh Commune, Long Thanh District, Dong Nai Province, Viet Nam
UK REPRESENTATIVES: ADDRESS	CCS McLays Ltd Rhymney House, Copse Walk, Cardiff Gate International Business Park, Cardiff, CF23 8RB, U.K.
PRODUCT	NITRILE EXAMINATION GLOVES POWDER FREE, NON-STERILE TRADE NAME: NVIMEDIC
TRACEABILITY	LOT NO PRINT ON THE BOX From Lot No can tract and trace production date, expiry date and materials used.
CLASSIFICATION (According to MDD 93/42/EEC, Annex IX)	RULE 1, CLASS 1, NON-STERILE

<p>NOTIFYING PARTY FOR EU DECLARATION OF CONFORMITY NOTIFIED BODY NUMBER 2777</p>	<p>SATRA TECHNOLOGY EUROPE LIMITED Bracetown Business Park, Clonee, Co. Meath D15 YN2P, Ireland</p> 
<p>PPE CONFORMITY ASSESSMENT ROUTE</p>	<p>ANNEX IV: EU DECLARATION OF CONFORMITY</p>
<p>HARMONISED STANDARDS</p>	<p>EN455 PART 1,2,3 Certificate No: CRSSA/200947255-CA46854 issued by SGS PRE CAT III EN ISO 374-1:2016+A1:2018: Certificate No 2777/14737-01/E00-00 by SATRA Technology Centre Ltd EN374-2:2019: Certificate No SPC0257773/1721 by SATRA Technology Centre Ltd EN 16523-1:2015: Certificate No CHM0255399/1711/SMcD by SATRA Technology Centre Ltd</p>

	EN 374-4:2019: Certificate No CHM0257912/1721/SMcD/B by SATRA Technology Centre Ltd EN ISO 374-5:2016. Certificate No : CHM0298619/2023/LC by SATRA Technology Centre Ltd EN ISO 21420:2020: Certificate No SPC0257773/1721 by SATRA Technology Centre Ltd
PLACE, DATE OF ISSUE	DONG NAI, VIETNAM 17-June-2020



PHẠM THẢO NGUYÊN

QA MANAGER