

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

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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<br>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±2) °C and (50±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<br>245<br>Right<br>247<br>Comments on fit: Satisfactory |          |               |
|                                   | M            | 255<br>254<br>Comments on fit: Satisfactory                  |          |               |
|                                   | L            | 254<br>253<br>Comments on fit: Satisfactory                  |          |               |
|                                   | XL           | 245<br>244<br>Comments on fit: Satisfactory                  |          |               |
|                                   |              |  | ± 0.3 mm | See note<br>■ |
| 5.2 Dexterity                     | Size         | Minimum pin diameter / mm                                    |          |               |
|                                   | S            | 5.0  |          |               |
|                                   | M            | 5.0  | N/A      | Level 5       |
|                                   | L            | 5.0  |          |               |
|                                   | XL           | 5.0  |          |               |

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 | ± 2.8 mmH <sub>2</sub> O | Pass   |
|                     | L                       | No leaks detected |                          |        |
| 7.3 Water leak test | Sample size             | Leaks             |                          |        |
|                     | S                       | No leaks detected |                          |        |
|                     | M                       | No leaks detected | N/A                      | Pass   |
|                     | L                       | No leaks detected |                          |        |
|                     | XL                      | No leaks detected |                          |        |

## TERMS AND CONDITIONS OF BUSINESS

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Work done or services undertaken are subject to the terms and conditions detailed below and all other conditions, warranties and representations, expressed or implied are hereby excluded.
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Prices are based on current material and production costs, exchange rates, duty and freight and are subject to change without notice.
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8. **GUARANTEE**  
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Results given in test reports refer only to samples submitted for analysis and tested by SATRA. 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 Customer as a result of information supplied in a test report.
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Unless otherwise agreed in advance, test samples will be disposed of 6 weeks after the date of the final report. If required, samples can be returned at the Customer's expense.
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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: 9<sup>th</sup> June 2017

Samples received: 16<sup>th</sup> May 2017

For the attention of: Ooi Loon Seng

Date(s) work  
carried out: 6<sup>th</sup> 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

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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



## 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 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:

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

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

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

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

SATRA TECHNOLOGY EUROPE LIMITED  
 Bracetown Business Park, Clonee, Co. Meath D15 YN2P, Ireland



**NOTIFYING PARTY  
 FOR EU  
 DECLARATION OF  
 CONFORMITY  
 NOTIFIED BODY  
 NUMBER 2777**

**PPE CONFORMITY  
 ASSESSMENT  
 ROUTE**

**ANNEX IV: EU DECLARATION OF CONFORMITY**

**HARMONISED  
 STANDARDS**

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

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



PHẠM THẢO NGUYÊN

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QA MANAGER