



**Handi As**  
**Mr. Magne Karlsen**  
**Magnus Barfots vei 5**  
**4633 KRISTIANSAND S**  
**Noorwegen**



Your notice of  
12-05-2017

Your reference

Date  
13-06-2017

## Analysis Report 17.02859.02

Required tests :

**EN 388-6.3 (2016)**

**Determination of tearing resistance - gloves**

**EN 388-6.1 (2016)**

**Determination of the abrasion resistance on Martindale with emery paper**

**EN 388-6.2 (2016)**

**Determination of the blade cut resistance**

**EN 420 6.1 (2003) + A1 (2009)**

**Determination of the dimensions of gloves**

| Identification number | Information given by the client | Date of receipt |
|-----------------------|---------------------------------|-----------------|
| T1710353              | Glove 1040                      | 12-05-2017      |
| T1710354              | Glove 1045                      | 12-05-2017      |
| T1710355              | Glove 1046                      | 12-05-2017      |

Christophe Cousyn

### Order responsible

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The results of the analysis cover the received samples. Centexbel is not responsible for the representativeness of the samples.  
In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.

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GENT • Technologiepark 7 • BE-9052 Zwijnaarde, Belgium • phone +32 9 220 41 51 • fax +32 9 220 49 55 • [gent@centexbel.be](mailto:gent@centexbel.be)

GRÂCE-HOLLOGNE • Rue du Travail 5 • BE-4460 Grâce-Hollogne, Belgium • phone +32 4 296 82 00 • [g-h@centexbel.be](mailto:g-h@centexbel.be)

KORTRIJK • Etienne Sabbelaan 49 • BE-8500 Kortrijk, Belgium • phone +32 56 281828 • fax +32 56 281830 • [info@vkc.be](mailto:info@vkc.be)

VAT BE 0459.218.289 • IBAN BE44 2100 4729 6545 • BIC GEBABEBB



**Reference: T1710353 - Glove 1040**

**Determination of tearing resistance - gloves**

Date of ending the test 06-06-2017  
 Standard used EN 388-6.3 (2016)  
 Product standard EN 388 (2016)  
 Deviation from the standard -  
 Conditioning 23°C, relative humidity 50%  
 Apparatus Instron, type CRE, class 0,5  
 Cell 100 N  
 Rate 100 mm/min  
 Number of test specimens 2 (Length direction)  
 2 (Width direction)  
 Calculation Automatic - the highest peak

| Outer layer | Tear resistance (N) |
|-------------|---------------------|
| Length      | 64.6                |
| Length      | 46.6*               |
| Width       | > 75.0              |
| Width       | > 75.0              |
| Minimum     | 46.6 N              |

| Inner layer | Tear resistance (N) |
|-------------|---------------------|
| Length      | 18.6                |
| Length      | 30.3                |
| Width       | 37.1                |
| Width       | 41.2                |
| Minimum     | 18.6 N              |

Remark \* = Tear transfer

| Classification level |         |         |         |         |
|----------------------|---------|---------|---------|---------|
| Level 1              | Level 2 | Level 3 | Level 4 | Level 5 |
| 10 N                 | 25 N    | 50 N    | 75 N    | -       |

Performed under accreditation in the physical lab Ghent under the responsibility of Filip Ghekiere



**Reference: T1710353 - Glove 1040**

**Determination of the abrasion resistance on Martindale with emery paper**

|                             |                                     |
|-----------------------------|-------------------------------------|
| Date of ending the test     | 06-06-2017                          |
| Standard used               | EN 388-6.1 (2016)                   |
| Product standard            | EN 388 (2016)                       |
| Deviation from the standard | -                                   |
| Conditioning                | 23°C, relative humidity 50%         |
| Apparatus                   | Martindale Wear and Abrasion Tester |
| Used pressure               | 9 kPa                               |
| Abradant                    | Klingspor PL31B Gritt 180           |
| Number of test specimens    | 4                                   |
| Specimens tested by         | 4                                   |

Outer layer

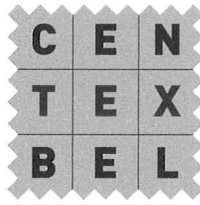
|         | Number of cycles to breakdown the specimen |
|---------|--|
| #1      | 500 >< 2000                                |
| #2      | 500 >< 2000                                |
| #3      | 2000 >< 8000                               |
| #4      | > 8000                                     |
| Minimum | 500 >< 2000                                |

Inner layer

|         | Number of cycles to breakdown the specimen |
|---------|--|
| #1      | 0 >< 100                                   |
| #2      | 0 >< 100                                   |
| #3      | 100 >< 500                                 |
| #4      | 100 >< 500                                 |
| Minimum | 0 >< 100                                   |

| Classification level |           |            |            |         |
|----------------------|-----------|------------|------------|---------|
| Level 1              | Level 2   | Level 3    | Level 4    | Level 5 |
| 100 cycli            | 500 cycli | 2000 cycli | 8000 cycli | -       |

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**Reference: T1710353 - Glove 1040**

**Determination of the blade cut resistance**

Date of ending the test 06-06-2017  
 Standard used EN 388-6.2 (2016)  
 Product standard EN 388 (2016)  
 Deviation from the standard -  
 Conditioning 23°C, relative humidity 50%  
 Apparatus Coupetest  
 Number of test specimens 2

On all layers together

Direction /

|         | Ref. fabric | Test specimen 1 | Ref. fabric | Index |
|---------|-------------|-----------------|-------------|-------|
| #1      | 1.0         | 1.5             | 1.0         | 2.50  |
| #2      | 1.0         | 1.5             | 1.0         | 2.50  |
| #3      | 1.0         | 1.5             | 1.0         | 2.50  |
| #4      | 1.0         | 1.5             | 1.1         | 2.43  |
| #5      | 1.1         | 1.6             | 1.1         | 2.45  |
| Average | 1.0         | 1.5             | 1.0         | 2.5   |

Direction \

|         | Ref. fabric | Test specimen 2 | Ref. fabric | Index |
|---------|-------------|-----------------|-------------|-------|
| #1      | 1.0         | 1.6             | 1.1         | 2.52  |
| #2      | 1.1         | 2.1             | 1.1         | 2.91  |
| #3      | 1.1         | 1.6             | 1.1         | 2.45  |
| #4      | 1.1         | 2.1             | 1.1         | 2.91  |
| #5      | 1.1         | 2.2             | 1.2         | 2.91  |
| Average | 1.1         | 1.9             | 1.1         | 2.7   |

| Classification level |         |         |         |         |
|----------------------|---------|---------|---------|---------|
| Level 1              | Level 2 | Level 3 | Level 4 | Level 5 |
| 1.2                  | 2.5     | 5.0     | 10.0    | 20.0    |

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**Reference: T1710353 - Glove 1040**

**Determination of the dimensions of gloves**

Date of ending the test 29-05-2017  
Standard used EN 420 6.1 (2003) + A1 (2009)  
Product standard EN 420 (2003) + A1 (2009)  
Deviation from the standard The circumference is measured on the outside of the glove  
Number of gloves 2 x 2

|    | Size |       | Total length (mm) | Length of the top of the middle finger until the wrist (mm) | Circumference (mm) |
|----|------|-------|-------------------|---|--------------------|
| #1 | 10   | left  | 290               | 203   | 260                |
| #2 | 10   | right | 285               | 200   | 270                |
| #3 | 10   | left  | 280               | 195   | 265                |
| #4 | 10   | right | 285               | 200   | 270                |

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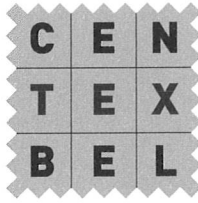
**Reference:** T1710354 - Glove 1045

**Determination of the dimensions of gloves**

Date of ending the test 29-05-2017  
Standard used EN 420 6.1 (2003) + A1 (2009)  
Product standard EN 420 (2003) + A1 (2009)  
Deviation from the standard The circumference is measured on the outside of the glove  
Number of gloves 1 x 2

|    | Size |       | Total length (mm) | Length of the top of the middle finger until the wrist (mm) | Circumference (mm) |
|----|------|-------|-------------------|---|--------------------|
| #1 | 11   | left  | 300               | 210   | 280                |
| #2 | 11   | right | 305               | 218   | 280                |

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**Reference:** T1710355 - Glove 1046

**Determination of the dimensions of gloves**

Date of ending the test 29-05-2017  
Standard used EN 420 6.1 (2003) + A1 (2009)  
Product standard EN 420 (2003) + A1 (2009)  
Deviation from the standard The circumference is measured on the outside of the glove  
Number of gloves 1 x 2

|    | Size |       | Total length (mm) | Length of the top of the middle finger until the wrist (mm) | Circumference (mm) |
|----|------|-------|-------------------|---|--------------------|
| #1 | 12   | left  | 305               | 210   | 270                |
| #2 | 12   | right | 300               | 210   | 275                |