

TEST REPORT

| | | | |
|----------------------|--|------------------------------------|---------------------------|
| COMPANY NAME: | MECDEX | Report No.: | FTL-1292/080923 |
| ADDRESS | LIBERMANN International P.O Box-1166 Harrar, Wazirabad Road, Sialkot-51310, Pakistan | TRF No.: | FTL-1292/080923 |
| EMAIL: | ali.anwar@libermann.com | Date In: | 08 th Oct 2023 |
| ATTN: | Ali Anwar | Date Out: | 16 th Oct 2023 |
| TEL: | +92 52 3252201-up to 5 | No. Of Working Days: | 08 Days |
| FAX: | +92 52 3252208 | Pretest for Buyer | Not Listed |
| | | Temperature & Humidity: | 23°C ± 2 53 ± 5% |

| | |
|--------------------------------|-----------------------|
| Sample Description: | VentGuard 15A3 Gloves |
| Color(s): | Black |
| Lab Id Color(S): | Black |
| P.O. No(s): | Not Listed |
| Article No(s): | VentGuard 15A3 |
| Season: | Not Listed |
| Quantity Submitted: | 10 Pairs |
| Country of Origin: | Pakistan |
| Country of Destination: | Europe |
| Dept: | Not Listed |
| End Use: | Not Listed |

| | |
|------------------------------------|---|
| Submitted Fiber Content: | Not Listed |
| Multi Layers | 15GG Black HPPE Liner |
| Test Requested: | EN 388:2016+A1:2018, EN ISO 21420:2020 & ANSI/ISEA105-2016 (ASTM F2992) |
| Submitted Care Instruction: | Not Listed |
| Suggested Care Instruction: | Not Listed |

PHOTO OF THE SUBMITTED SAMPLE



EN388: 2016 +A1:2018



4 X 4 2 C

FIRST TESTING LAB
AUTHORIZED SIGNATORIES

A. Basif
Test Conducted by

Rehan
Test Checked by

[Signature]
Approved By

SUMMARY OF TEST RESULTS

| TEST PROPERTY | Standard Method | Results | Comments |
|---|--------------------------------|----------|----------|
| ABRASION RESISTANCE | EN 388:2016+A1:2018 | Level-4 | |
| BLADE CUT RESISTANCE | EN 388:2016+A1:2018 | Level-X | |
| TDM Cut Resistance | EN 388:2016+A1:2018 | Level- C | |
| TEAR RESISTANCE | EN 388:2016+A1:2018 | Level-4 | |
| PUNCTURE RESISTANCE | EN 388:2016+A1:2018 | Level-2 | |
| TDM Cut Resistance | ANSI/ISEA105-2016 (ASTM F2992) | Level-A3 | |
| Taber Abrasion Resistance | ANSI/ISEA105-2016 (ASTM D3884) | N/A | |
| Puncture Resistance (Nail Puncture) | ANSI/ISEA105-2016 (EN388) | N/A | |
| Puncture Resistance (Hypodermic Needle) | ANSI/ISEA105-2016 (EN388) | N/A | |
| SIZING | EN ISO 21420:20020 | Pass | |
| DEXTERITY | EN ISO 21420:20020 | Level-5 | |

Test Results:

| Parameter | Test Requirement EN 388:2016+A1:2018 | Test Results | Remarks | | | | | | | | | | | | | | |
|--|--|----------------------|------------------|---------|---------------|----------|-------------|------------------------|---------------------|----------|--------------|-------------------|--------------|-----|--------------|-------------------|---------|
| 6.1 Abrasion Resistance (Rubs) Tested – Palm Portion Used abradant: Klingspor PL 31 B | <table border="1" style="width: 100%; text-align: center;"> <thead> <tr style="background-color: #800000; color: white;"> <th>Level of Performance</th> <th>Number of Cycles</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>100</td> </tr> <tr> <td>2</td> <td>500</td> </tr> <tr> <td>3</td> <td>2000</td> </tr> <tr style="background-color: #cccccc;"> <td>4</td> <td>8000</td> </tr> </tbody> </table> | Level of Performance | Number of Cycles | 1 | 100 | 2 | 500 | 3 | 2000 | 4 | 8000 | >8000 Rubs | Level - 4 | | | | |
| Level of Performance | Number of Cycles | | | | | | | | | | | | | | | | |
| 1 | 100 | | | | | | | | | | | | | | | | |
| 2 | 500 | | | | | | | | | | | | | | | | |
| 3 | 2000 | | | | | | | | | | | | | | | | |
| 4 | 8000 | | | | | | | | | | | | | | | | |
| 6.2 Blade Cut Resistance (i) Tested – Palm <i>Blade Thickness – 0.3 mm</i> <i>Angle of Blade – 24°</i> | <table border="1" style="width: 100%; text-align: center;"> <thead> <tr style="background-color: #800000; color: white;"> <th>Level of Performance</th> <th>Index (i)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>> 1.2</td> </tr> <tr> <td>2</td> <td>≥ 2.5</td> </tr> <tr> <td>3</td> <td>≥ 5.0</td> </tr> <tr> <td>4</td> <td>≥ 10.0</td> </tr> <tr> <td>5</td> <td>≥ 20.0</td> </tr> </tbody> </table> | Level of Performance | Index (i) | 1 | > 1.2 | 2 | ≥ 2.5 | 3 | ≥ 5.0 | 4 | ≥ 10.0 | 5 | ≥ 20.0 | N/A | N/A | | |
| Level of Performance | Index (i) | | | | | | | | | | | | | | | | |
| 1 | > 1.2 | | | | | | | | | | | | | | | | |
| 2 | ≥ 2.5 | | | | | | | | | | | | | | | | |
| 3 | ≥ 5.0 | | | | | | | | | | | | | | | | |
| 4 | ≥ 10.0 | | | | | | | | | | | | | | | | |
| 5 | ≥ 20.0 | | | | | | | | | | | | | | | | |
| 6.3 TDM Cut Resistance <i>EN ISO 13997: 2016</i> Tested – Palm <i>Type of Blade (Straight)</i> | <table border="1" style="width: 100%; text-align: center;"> <thead> <tr style="background-color: #800000; color: white;"> <th>Level of Performance</th> <th>Cut Load N</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>> 2 Newtons</td> </tr> <tr> <td>B</td> <td>≥ 5 Newtons</td> </tr> <tr style="background-color: #cccccc;"> <td>C</td> <td>≥ 10 Newtons</td> </tr> <tr> <td>D</td> <td>≥ 15 Newtons</td> </tr> <tr> <td>E</td> <td>≥ 22 Newtons</td> </tr> <tr> <td>F</td> <td>≥ 30 Newtons</td> </tr> </tbody> </table> | Level of Performance | Cut Load N | A | > 2 Newtons | B | ≥ 5 Newtons | C | ≥ 10 Newtons | D | ≥ 15 Newtons | E | ≥ 22 Newtons | F | ≥ 30 Newtons | >10 & <15 Newtons | Level-C |
| Level of Performance | Cut Load N | | | | | | | | | | | | | | | | |
| A | > 2 Newtons | | | | | | | | | | | | | | | | |
| B | ≥ 5 Newtons | | | | | | | | | | | | | | | | |
| C | ≥ 10 Newtons | | | | | | | | | | | | | | | | |
| D | ≥ 15 Newtons | | | | | | | | | | | | | | | | |
| E | ≥ 22 Newtons | | | | | | | | | | | | | | | | |
| F | ≥ 30 Newtons | | | | | | | | | | | | | | | | |
| 6.4 Tear Resistance (Newton) | <table border="1" style="width: 100%; text-align: center;"> <thead> <tr style="background-color: #800000; color: white;"> <th>Level of Performance</th> <th>Strength (N)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10</td> </tr> <tr> <td>2</td> <td>25</td> </tr> <tr> <td>3</td> <td>50</td> </tr> <tr style="background-color: #cccccc;"> <td>4</td> <td>75</td> </tr> </tbody> </table> | Level of Performance | Strength (N) | 1 | 10 | 2 | 25 | 3 | 50 | 4 | 75 | > 75 Newton | Level-4 | | | | |
| Level of Performance | Strength (N) | | | | | | | | | | | | | | | | |
| 1 | 10 | | | | | | | | | | | | | | | | |
| 2 | 25 | | | | | | | | | | | | | | | | |
| 3 | 50 | | | | | | | | | | | | | | | | |
| 4 | 75 | | | | | | | | | | | | | | | | |
| 6.5 Puncture Resistance (Newton) | <table border="1" style="width: 100%; text-align: center;"> <thead> <tr style="background-color: #800000; color: white;"> <th>Level of Performance</th> <th>Strength (N)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20</td> </tr> <tr style="background-color: #cccccc;"> <td>2</td> <td>60</td> </tr> <tr> <td>3</td> <td>100</td> </tr> <tr> <td>4</td> <td>150</td> </tr> </tbody> </table> | Level of Performance | Strength (N) | 1 | 20 | 2 | 60 | 3 | 100 | 4 | 150 | >60 & <100 Newton | Level-2 | | | | |
| Level of Performance | Strength (N) | | | | | | | | | | | | | | | | |
| 1 | 20 | | | | | | | | | | | | | | | | |
| 2 | 60 | | | | | | | | | | | | | | | | |
| 3 | 100 | | | | | | | | | | | | | | | | |
| 4 | 150 | | | | | | | | | | | | | | | | |
| 6.6 Impact Resistance (Load in Kilo Newton) | <table border="1" style="width: 100%; text-align: center;"> <thead> <tr style="background-color: #800000; color: white;"> <th>Level of Performance</th> <th>Level-1</th> <th>Level-2</th> </tr> </thead> <tbody> <tr> <td>Single Result</td> <td>≤ 9.0 KN</td> <td>≤ 5.0 KN</td> </tr> <tr> <td>Mean Transmitted Force</td> <td>< 7.0 KN</td> <td>< 4.0 KN</td> </tr> </tbody> </table> | Level of Performance | Level-1 | Level-2 | Single Result | ≤ 9.0 KN | ≤ 5.0 KN | Mean Transmitted Force | < 7.0 KN | < 4.0 KN | N/A | N/A | | | | | |
| Level of Performance | Level-1 | Level-2 | | | | | | | | | | | | | | | |
| Single Result | ≤ 9.0 KN | ≤ 5.0 KN | | | | | | | | | | | | | | | |
| Mean Transmitted Force | < 7.0 KN | < 4.0 KN | | | | | | | | | | | | | | | |

The specified performance levels are valid for only the palm area of this glove.

| Parameter | Test Requirement ANSI/ISEA 105-2016 | | Test Results | Remarks |
|--|-------------------------------------|--------------------|---------------------------|----------|
| 6.3 TDM Cut Resistance ANSI/ISEA105-2016 (ASTM F2992) <i>Tested – Palm</i> <i>Type of Blade (Straight)</i> | Level of Performance | Cut Load N | >1000 & <1500 Grams | Level-A3 |
| | A1 | > 200 Grams | | |
| | A2 | ≥ 500 Grams | | |
| | A3 | ≥ 1000Grams | | |
| | A4 | ≥ 1500 Grams | | |
| | A5 | ≥ 2200 Grams | | |
| | A6 | ≥ 3000 Grams | | |
| | A7 | ≥ 4000 Grams | | |
| | A8 | ≥ 5000 Grams | | |
| | A9 | ≥ 6000 Grams | | |

The above-specified results are valid for only this glove model

| Parameter | Test Requirement EN ISO 21420:2020 | Test Results | Remarks | |
|--|--|--|---------|------|
| 5.1 Sizing | Size | Lab Analysis | PASS | |
| | Submitted Size: Small, Medium, Large, X-Large, XX-Large, XXX-Large | | | |
| | | <ul style="list-style-type: none"> ➤ Hand Length: All gloves meet the requirements of standard method. ➤ Circumference: All gloves meet the requirements of standard method. | | |
| 5.2 Dexterity Pin sizes in millimeters (mm) | Level of Performance | Diameter of Pins (mm) | Level-5 | Pass |
| | 1 | 11 | | |
| | 2 | 9.5 | | |
| | 3 | 8 | | |
| | 4 | 6.5 | | |
| | 5 | 5 | | |

The above-specified results are valid for only this glove model.

“End of Report”