FTL-1285/080923

TEST REPORT

COMPANY NAME:	MECDEX	**Report No.:**	FTL-1285/080923
ADDRESS	LIBERMANN International P.O Box-1166 Harrar, Wazirabad Road, Sialkot-51310, Pakistan	**TRF No.:**	FTL-1285/080923
		Date In:	08th Oct 2023
		Date Out:	16th Oct 2023
EMAIL:	ali.anwar@libermann.com	**No. Of Working Days:**	08 Days
ATTN:	Ali Anwar	**Pretest for Buyer**	Not Listed
TEL:	+92 52 3252201-up to 5	**Temperature & Humidity:**	23°C ± 2 53 ± 5%
FAX:	+92 52 3252208		

Sample Description:	ThinGuard 21A7 Gloves
Color(s):	Grey, Black
Lab Id Color(S):	Grey, Black
P.O. No(s):	Not Listed
Article No(s):	ThinGuard 21A7
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	21GG HPPE Tungsten Nylon & Spandex 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 3 1 F

FIRST TESTING LAB
AUTHORIZED SIGNATORIES

Test Conducted by **Test Checked by** **Approved By**

FIRST TESTING LAB.
Wazirabad Road, Sialkot, Pakistan.
Web: www.ftl.com.pk
E-mail: labs@nizamsons.com;
rehan.qamar@nizamsons.com
Tel. :+92 52 3252201-2
Fax :+92 52 3252208

FIRST TESTING LAB

FTL-1285/080923

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- F	
TEAR RESISTANCE	EN 388:2016+A1:2018	Level-3	
PUNCTURE RESISTANCE	EN 388:2016+A1:2018	Level-1	
TDM Cut Resistance	ANSI/ISEA105-2016 (ASTM F2992)	Level-A7	
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:

<table>
<tr><th>Parameter</th><th>Test Requirement EN 388:2016+A1:2018</th><th>Test Results</th><th>Remarks</th></tr>
<tr><td>6.1 Abrasion Resistance (Rubs)

Tested – Palm Portion
Used abradant:
Klingspor PL 31 B</td><td>
<table>
<tr><th>Level of Performance</th><th>Number of Cycles</th></tr>
<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><td>4</td><td>8000</td></tr>
</table>
</td><td>>8000 Rubs</td><td>Level - 4</td></tr>
<tr><td>6.2 Blade Cut Resistance (i)

Tested – Palm
Blade Thickness – 0.3 mm
Angle of Blade – 24º</td><td>
<table>
<tr><th>Level of Performance</th><th>Index (i)</th></tr>
<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>
</table>
</td><td>N/A</td><td>N/A</td></tr>
<tr><td>6.3 TDM Cut Resistance
EN ISO 13997: 2016

Tested – Palm
Type of Blade (Straight)</td><td>
<table>
<tr><th>Level of Performance</th><th>Cut Load N</th></tr>
<tr><td>A</td><td>> 2 Newtons</td></tr>
<tr><td>B</td><td>≥ 5 Newtons</td></tr>
<tr><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>
</table>
</td><td>> 30 Newtons</td><td>Level-F</td></tr>
<tr><td>6.4 Tear Resistance (Newton)</td><td>
<table>
<tr><th>Level of Performance</th><th>Strength (N)</th></tr>
<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><td>4</td><td>75</td></tr>
</table>
</td><td>> 50 & < 75 Newton</td><td>Level-3</td></tr>
<tr><td>6.5 Puncture Resistance (Newton)</td><td>
<table>
<tr><th>Level of Performance</th><th>Strength (N)</th></tr>
<tr><td>1</td><td>20</td></tr>
<tr><td>2</td><td>60</td></tr>
<tr><td>3</td><td>100</td></tr>
<tr><td>4</td><td>150</td></tr>
</table>
</td><td>>20 & <60 Newton</td><td>Level-1</td></tr>
<tr><td>6.6 Impact Resistance (Load in Kilo Newton)</td><td>
<table>
<tr><th>Level of Performance</th><th>Level-1</th><th>Level-2</th></tr>
<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>
</table>
</td><td>N/A</td><td>N/A</td></tr>
</table>

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) ***Tested*** – Palm *Type of Blade (Straight)*	**Level of Performance** / **Cut Load N** **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	> 4000 & < 5000 Grams	Level-A7

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** Submitted Size: Small, Medium, Large, X-Large, XX-Large, XXX-Large	**Lab Analysis** ➢ Hand Length: All gloves meet the requirements of standard method. ➢ Circumference: All gloves meet the requirements of standard method.	PASS
5.2 Dexterity Pin sizes in millimeters (mm)	**Level of Performance** / **Diameter of Pins (mm)** 1 / 11 2 / 9.5 3 / 8 4 / 6.5 5 / 5	Level-5	Pass

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

"End of Report"