

TEST REPORT

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Report No.: FTL-227/081017
TRF No.: FTL-227/081017
Date In: 8th Oct 2017
Date Out: 12th Oct 2017
No. Of Working Days: 04 Days
Page: 1 of 4
Pretest for Buyer: Not Listed

Sample Description:	Winter Gloves
Color(s):	Stone/Green
GSM / Thickness:	-
Production Gate Pass (PGP):	Not Listed
Article No(s):	WN-811 (Mossy Cold)
Reference:	Not Listed
Quantity Submitted:	06 Pairs
Country of Destination:	Europe
Customer:	Not Listed
End Use:	Gloves
Submitted Fiber Content:	Not Listed
Test Requested:	EN: 388, EN: 420, ANSI/ISEA 105-11
Submitted Care Instruction:	Not Listed

PHOTO OF THE SUBMITTED SAMPLE



**FIRST TESTING LAB
AUTHORIZED SIGNATORIES**


Test Conducted by


Test Checked by


Approved by

Please Contact:

For any Technical Issues: Mr. Rehan Qamar
 Tel: +92 52 3252201 – 05
 Fax: +92 52 3252208
 Email: lab@nizamsons.com , lab@libermann.com

FIRST TESTING LAB.

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This report is tested in **FIRST TESTING LAB**, and testing purpose is Quality Assurance of product according to British, European or American Standards. Our report includes all of the tests requested by the customer and the results thereof based upon the information that you provide us. You have 60 days from the date of issuance of this report to notify us of any material error or omission caused by our negligence; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise.

SUMMARY OF TEST RESULTS

TEST PROPERTY	Standard Method	Results	Comments
ABRASION RESISTANCE	BS: EN: 388	Level-2	
BLADE CUT RESISTANCE	BS: EN: 388	Level-1	
TEAR RESISTANCE	BS: EN: 388	Level-3	
PUNCTURE RESISTANCE	BS: EN: 388	Level-1	
SIZING	BS: EN: 420	Pass	
DEXTERITY	BS: EN: 420	Level-5	
BLADE CUT RESISTANCE	ANSI/ISEA 105-11	Level-1	
PUNCTURE RESISTANCE	ANSI/ISEA 105-11	Level-2	
ABRASION RESISTANCE	ANSI/ISEA 105-11	Level-3	

Parameter	According to EN:388:2016	Test Requirement	Test Results	Remarks												
Abrasion Resistance (Cycles) Tested – Palm Portion Used abradant: Klingspor PL 31 B	Clause 6.1	<table border="1"> <thead> <tr> <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> <td>4</td> <td>8000</td> </tr> </tbody> </table>	Level of Performance	Number of Cycles	1	100	2	500	3	2000	4	8000	1750 Cycles	Compiles with Level -2		
Level of Performance	Number of Cycles															
1	100															
2	500															
3	2000															
4	8000															
Blade Cut Resistance (<i>i</i>) <i>Tested</i> – All Layers Together. <i>Blade Thickness</i> – 0.3 mm <i>Angle of Blade</i> – 24°	Clause 6.2	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Index (<i>i</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>i</i>)	1	1.2	2	2.5	3	5.0	4	10.0	5	20.0	Average 1 – 2.3 Average 2 – 2.2	Level-1
Level of Performance	Index (<i>i</i>)															
1	1.2															
2	2.5															
3	5.0															
4	10.0															
5	20.0															
Tear Resistance (Newton) Tested – All Layers Together.	Clause 6.4	<table border="1"> <thead> <tr> <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> <td>4</td> <td>75</td> </tr> </tbody> </table>	Level of Performance	Strength (N)	1	10	2	25	3	50	4	75	58.40 Newton	Level-3		
Level of Performance	Strength (N)															
1	10															
2	25															
3	50															
4	75															
Puncture Resistance (Newton) Tested – All Layers Together	Clause 6.5	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Strength (N)</th> </tr> </thead> <tbody> <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> </tbody> </table>	Level of Performance	Strength (N)	1	20	2	60	3	100	4	150	56.00 Newton	Level-1		
Level of Performance	Strength (N)															
1	20															
2	60															
3	100															
4	150															

The specified performance levels only valid for the palm area.

Parameter	According to EN:420:2003	Test Requirement	Test Results	Remarks												
Sizing in millimeters (mm)	Clause 5.1	Size	Lab Analysis	PASS												
		Submitted Size: Small, Medium, Large, X-Large, XX-Large, XXX-Large	<p><u>Small</u> Length of Glove-230 Hand Length- 175 Circumference- 190 Size 7</p> <p><u>Medium</u> Length of Glove-240 Hand Length- 185 Circumference- 215 Size 8</p> <p><u>Large</u> Length of Glove-250 Hand Length- 200 Circumference- 225 Size 9</p> <p><u>X-Large</u> Length of Glove-260 Hand Length- 210 Circumference- 235 Size 10</p> <p><u>XX-Large</u> Length of Glove-270 Hand Length- 215 Circumference- 245 Size 11</p> <p><u>XXX-Large</u> Length of Glove-280 Hand Length- 225 Circumference- 255 Size 11</p>													
Dexterity in millimeters (mm)	Clause 5.2	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Level of Performance</th> <th style="text-align: center;">Diameter of Pins (mm)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">11</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">9.5</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">8</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">6.5</td> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> </tr> </tbody> </table>	Level of Performance	Diameter of Pins (mm)	1	11	2	9.5	3	8	4	6.5	5	5	Pin – 5 mm	Level-5
Level of Performance	Diameter of Pins (mm)															
1	11															
2	9.5															
3	8															
4	6.5															
5	5															

The above specified result valid for glove model.

Parameter	According to ANSI/ISEA 105-11	Test Requirement	Test Results	Remarks																				
Blade Cut Resistance	Clause 1	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Strength (grams)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>< 200</td> </tr> <tr> <td>1</td> <td>≥ 200</td> </tr> <tr> <td>2</td> <td>≥ 500</td> </tr> <tr> <td>3</td> <td>≥ 1000</td> </tr> <tr> <td>4</td> <td>≥ 1500</td> </tr> <tr> <td>5</td> <td>≥ 3500</td> </tr> </tbody> </table>	Level of Performance	Strength (grams)	0	< 200	1	≥ 200	2	≥ 500	3	≥ 1000	4	≥ 1500	5	≥ 3500	> 200 grams	Level-1						
Level of Performance	Strength (grams)																							
0	< 200																							
1	≥ 200																							
2	≥ 500																							
3	≥ 1000																							
4	≥ 1500																							
5	≥ 3500																							
Puncture Resistance (Newton) Tested – All Layers Together	Clause 2	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Strength (Newton)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>< 10</td> </tr> <tr> <td>1</td> <td>≥ 10</td> </tr> <tr> <td>2</td> <td>≥ 20</td> </tr> <tr> <td>3</td> <td>≥ 60</td> </tr> <tr> <td>4</td> <td>≥ 100</td> </tr> <tr> <td>5</td> <td>≥ 150</td> </tr> </tbody> </table>	Level of Performance	Strength (Newton)	0	< 10	1	≥ 10	2	≥ 20	3	≥ 60	4	≥ 100	5	≥ 150	56.00 Newton	Level-2						
Level of Performance	Strength (Newton)																							
0	< 10																							
1	≥ 10																							
2	≥ 20																							
3	≥ 60																							
4	≥ 100																							
5	≥ 150																							
Abrasion Resistance (Cycles) Tested – Material of Palm Used Abrasive wheel: H-18	Clause 3	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Number of Cycles</th> </tr> </thead> <tbody> <tr> <td colspan="2">With 500 grams Weight</td> </tr> <tr> <td>0</td> <td>< 100</td> </tr> <tr> <td>1</td> <td>≥ 100</td> </tr> <tr> <td>2</td> <td>≥ 500</td> </tr> <tr> <td>3</td> <td>≥ 1000</td> </tr> <tr> <td colspan="2">With 1000 grams Weight</td> </tr> <tr> <td>4</td> <td>≥ 3000</td> </tr> <tr> <td>5</td> <td>≥ 10000</td> </tr> <tr> <td>6</td> <td>≥ 20000</td> </tr> </tbody> </table>	Level of Performance	Number of Cycles	With 500 grams Weight		0	< 100	1	≥ 100	2	≥ 500	3	≥ 1000	With 1000 grams Weight		4	≥ 3000	5	≥ 10000	6	≥ 20000	1840 Cycles	Compiles with Level - 3
Level of Performance	Number of Cycles																							
With 500 grams Weight																								
0	< 100																							
1	≥ 100																							
2	≥ 500																							
3	≥ 1000																							
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4	≥ 3000																							
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6	≥ 20000																							

The specified performance levels only valid for the palm area.

“End of Report”