

TEST REPORT

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Report No.: FTL-998/140518
TRF No.: FTL-998/140518
Date In: 14th May, 2018
Date Out: 18th May, 2018
No. Of Working Days: 04 Days
Page: 1 of 5
Pretest for Buyer Not Listed

Sample Description:	Lineman Gloves
Color(s):	Brown
Lab Id Color(S):	
P.O. No(s):	-
Article No(s):	PE-861
Season:	Not Listed
Quantity Submitted:	06 Pairs
Country of Origin:	Pakistan
Country of Destination:	Europe
Dept:	Not Listed
End Use:	Not Listed

Submitted Fiber Content:	Not Listed
Multi Layers	Leather + Leather + Kevlar
Test Requested:	EN: 388: 2016 EN: 420: 2003 + A1: 2009, ANSI/ISEA 105-11
Submitted Care Instruction:	Fit for Special Purpose
Suggested Care Instruction:	Not Listed

If Retest

Previous Report No.:	Not Listed
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If Revision

Reason For Revision	Not Listed
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PHOTO OF THE SUBMITTED SAMPLE



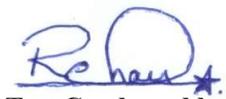
Require Tests & Detail

Test Name:

Abrasion Resistance
Blade Cut
Tear Resistance
Puncture Resistance
Dexterity
Blade Cut Resistance
Puncture Resistance
Abrasion Resistance

BS:EN: 388: 2016
BS:EN: 388: 2016
BS:EN: 388: 2016
BS:EN: 388: 2016
BS:EN: 420: 2003 + A1: 2009
ANSI/ISEA 105-11
ANSI/ISEA 105-11
ANSI/ISEA 105-11

**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

SUMMARY OF TEST RESULTS

TEST PROPERTY	Standard Method	Results	Comments
ABRASION RESISTANCE	BS:EN: 388	Level-3	
BLADE CUT RESISTANCE	BS:EN: 388	Level-3	
TEAR RESISTANCE	BS:EN: 388	Level-4	
PUNCTURE RESISTANCE	BS:EN: 388	Level-3	
DEXTERITY	BS:EN: 420	Level-4	
BLADE CUT RESISTANCE	ANSI/ISEA 105-11	Level-3	
PUNCTURE RESISTANCE	ANSI/ISEA 105-11	Level-4	
ABRASION RESISTANCE	ANSI/ISEA 105-11	Level-4	

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	7497 Cycles	Compiles with Level - 3
		Level of Performance	Number of Cycles											
		1	100											
		2	500											
		3	2000											
4	8000													
<table border="1"> <thead> <tr> <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	Average 1 – 8.65 Average 2 – 9.91	Level-3
Level of Performance	Index (i)													
1	1.2													
2	2.5													
3	5.0													
4	10.0													
5	20.0													
Tear Resistance (Newton) Tested – All Layers Together.	Clause 6.3	<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	> 75 Newton	Level-4
		Level of Performance	Strength (N)											
		1	10											
		2	25											
3	50													
4	75													
Puncture 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>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	123.42 Newton	Level-3
		Level of Performance	Strength (N)											
		1	20											
2	60													
3	100													
4	150													

specified performance levels only valid for the palm area.

The

Parameter	According to EN:420:2003 + A1: 2009	Test Requirement	Test Results	Remarks												
		Size	Lab Analysis													
Dexterity in millimeters (mm)	Clause 5.2	<table border="1"> <thead> <tr> <th>Level of Performance</th> <th>Diameter of Pins (mm)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11</td> </tr> <tr> <td>2</td> <td>9.5</td> </tr> <tr> <td>3</td> <td>8</td> </tr> <tr> <td>4</td> <td>6.5</td> </tr> <tr> <td>5</td> <td>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 – 6.5 mm	Level-4
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	> 500 grams	Level-2						
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	123.42 Newton	Level-4						
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	4253 Cycles	Compiles with Level - 4
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																							

The above specified result valid for glove model.

“End of Report”