

TEST REPORT

COMPANY NAME:	MECDEX	Report No.:	FTL-1474/250823
ADDRESS	LIBERMANN International P.O Box-1166 Harrar, Wazirabad Road, Sialkot-51310, Pakistan	TRF No.:	-
EMAIL:	ali.anwar@libermann.com	Date In:	25- Aug 2023
ATTN:	Ali Anwar	Date Out:	31- Aug 2023
TEL:	+92 52 3252201-up to 5	No. Of Working Days:	05 Days
FAX:	+92 52 3252208	Pretest for Buyer	Not Listed
		Temperature & Humidity:	23°C ± 2 53 ± 5% R.H

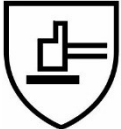
Sample Description:	Frostbite Gloves
Color(s):	Black & White
Lab Id Color(S):	-
P.O. No(s):	-
Article No(s):	WN-885
Season:	Not Listed
Quantity Submitted:	10 Pairs
Country of Origin:	Pakistan
Country of Destination:	Europe
Dept:	-
End Use:	-

Submitted Fiber Content:	-
Multi Layers	Goat Leather + Thinsulate + Water barrier + Micro polar Fleece Fabric
Test Requested:	EN 388: 2016 + A1: 2018, EN ISO 21420: 2020, EN 511: 2006
Submitted Care Instruction:	-
Suggested Care Instruction:	-

PHOTO OF THE SUBMITTED SAMPLE



EN388: 2016 +A1:2018



3 1 2 2 X

EN511:2006



3 2 1

**FIRST TESTING LAB
AUTHORIZED SIGNATORIES**


Test Conducted by


Test Checked by


Approved By

SUMMARY OF TEST RESULTS

TEST PROPERTY	Standard Method	Results	Comments
ABRASION RESISTANCE	EN 388: 2016 + A1: 2018	Level-3	
BLADE CUT RESISTANCE	EN 388: 2016 + A1: 2018	Level-1	
TEAR RESISTANCE	EN 388: 2016 + A1: 2018	Level-2	
PUNCTURE RESISTANCE	EN 388: 2016 + A1: 2018	Level-2	
SIZING	EN ISO 21420:2020	Pass	
DEXTERITY	EN ISO 21420:2020	Level-3	
CONVECTIVE COLD RESISTANCE	EN 511: 2006	Level-3	
CONTACT COLD RESISTANCE	EN 511: 2006	Level-2	
WATER PENETRATION	EN 511: 2006	Level-1	

Test Results:

Parameter	Test Requirement of EN 388: 2016 + A1: 2018		Test Results	Remarks
6.1 Abrasion Resistance (Cycles) Tested – Palm Portion Used abradant: Klingspor PL 31 B		Level of Performance		
		Number of Cycles		
		1		
		2		
		3		
6.2 Blade Cut Resistance (i) Tested – Palm <i>Blade Thickness – 0.3 mm</i> <i>Angle of Blade – 24°</i>		Level of Performance		
		Index (i)		
		1		
		2		
		3		
6.4 Tear Resistance (Newton) Tested – All Layers		Level of Performance		
		Strength (N)		
		1		
		2		
		3		
6.5 Puncture Resistance (Newton) Tested – Palm All Layers Together		Level of Performance		
		Strength (N)		
		1		
		2		
		3		

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

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	➤ 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) 11 9.5 8 6.5 5	Level-3	Pass

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

Test Results:

Parameter	EN 511: 2006	Test Requirement		Test Results	Remarks
Convective Cold Resistance	Clause 1	Level of Performance	Thermal Insulation I _{TR}	> 0.22 I _{TR} & < 0.30 I _{TR}	Level-3
		0	< 0.10		
		1	≥ 0.10 <0.15		
		2	≥ 0.15 <0.22		
		3	≥ 0.22 <0.30		
		4	≥ 0.30 I _{TR}		
Contact Cold Resistance	Clause 2	Level of Performance	Thermal Resistance R(m ² K/W)	> 0.50 & < 0.100 R(m ² K/W)	Level-2
		0	< 0.25 R		
		1	≥ 0.25 <0.50		
		2	≥ 0.50 <0.100		
		3	≥ 0.100 <0.150		
		4	≥ 0.150 R		
Water Penetration	Clause 3	Level of Performance	Water Penetration	No	Compiles with Level-1
		0	Yes		
		1	No		

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

“End of Report”