

12 June 2018

APPLICANT: QINGDAO EVERPRO SAFETY PROCUTS CO., LTD

DANSHAN INDUSTRIAL PARK,
CHENGYANG ROAD, QINGDAO,
CHINA

Date of receipt : 11 May 2018
Testing period : 22 May 2018
: 12 June 2018

Buyer: --

Sample description: QUEBEE CUT RESISTANT IMPACT GLOVE

Reference no.	: QB-VERGEMAX+-BK	Previous report	: --
Style / Article no.	: VERGEMAX+	Product category	: --
Test(s) requested	: EN 388/EN 420/EN 13594	Product type	: --
Service	: REGULAR	Test stage	: FIRST TEST
Brand / Section	: --	Supplier name	: --
Season	: --	Exported to	: --
End use	: --		
Factory name	: --		
Factory code	: --		

1. Conclusion:

	<u>Tests description</u>	<u>Conformity</u>
1	▲ Impact protection of knuckles EN 388/EN 420	Pass
2	(+) Abrasion resistance : 2016	Level 4
3	(+) Cut resistance : 2016	Level 3
4	(+) Cutting resistance TDM	Level C
5	(+) Tear strength resistance: 2016	Level 4
6	(+) Puncture resistance: 2016	Level 2
7	(+) Sizing	Pass
8	(+) Dexterity	Level 5

Pass: requirements met Fail: requirements not met None: no requirement for this test N/A: not applicable

(+) HOKLAS accredited activity ▲ The test was carried out by external accredited laboratory under their accreditation scope.

●: The test was carried out by external accredited laboratory, not within their accreditation scope.

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Approved by



John CHEUNG FAI CHEONG
Laboratory Supervisor

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2. Sample(s) description assigned by laboratory:

<u>Size</u>	<u>Analyzed product</u>	<u>Description</u>	<u>Sample information</u>
	18 PAIRS OF GLOVES		
		Whole glove	Black/Grey/Yellow, size: 10
		Whole glove	Black/Grey/Yellow, size: 11
		Palm, Coating coverage: PALM, material: NITRILE, Thickness:1.3mm, Finishing: Sandy, NYLON/UHMWPE	Black



H180501896



H180501896A



H180501896B

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3. 18 PAIRS OF GLOVES/

Whole glove : Black/Grey/Yellow, size: 10

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing Size Total length of the glove	EN 420:2003+A1:2009				Pass
		≥ 260	mm	10 260	
(+) 5.2. Dexterity Smallest diameter of the pin picked up Performance Level	EN 420:2003+A1:2009		mm	5.0 5	

Whole glove : Black/Grey/Yellow, size: 11

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing Size Total length of the glove	EN 420:2003+A1:2009				Pass
		≥ 270	mm	11 270	
▲ Impact protection of knuckles The protector cover 4 phalanges Cracks, deterioration of the glove or the appearance of sharp edges Tear of the chamois leather Single result Single result (2) Single result (3) Single result (4) Mean transmitted force	EN 13594: 2015				Pass
		≤ 9.0	kN	Conform Conform Conform 5.7	
		≤ 9.0	kN	5.3	
		≤ 9.0	kN	5.4	
		≤ 9.0	kN	5.3	
		≤ 7.0	kN	5.4	

Palm, Coating coverage: PALM, material: NITRILE, Thickness:1.3mm, Finishing: Sandy, NYLON/UHMWPE : Black

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.1. Abrasion resistance : 2016 used consumables - abrasive used consumables - adhesive	EN 388 : 2016				
				Klingspor PL31B Grit 180 3M Scotch	

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	Method	Client Requirement	Unit	Result	Conformity
Number of cycles at the hole detection				>8000	
Number of cycles at the hole detection (2)				>8000	
Number of cycles at the hole detection (3)				>8000	
Number of cycles at the hole detection (4)				>8000	
Performance level				4	
(+) 4.1. Cut resistance : 2016	EN 388 : 2016				
used consumables - canvas				LEM 6	
used consumables - blade				OLFA RB45	
C1				1.0	
T1				60.0	
1C1				13.5	
I1				9.3	
C2				1.1	
T2				60.0	
1C2				14.3	
I2				8.8	
C3				1.0	
T3				60.0	
1C3				13.1	
I3				9.5	
C4				1.1	
T4				60.0	
1C4				14.9	
I4				8.5	
C5				1.1	
T5				60.0	
1C5				14.0	
I5				8.9	
Mean value of test piece 1				9.0	
C1 bis				1.0	
T1 bis				60.0	
2C1bis				13.0	
I1 bis				9.6	

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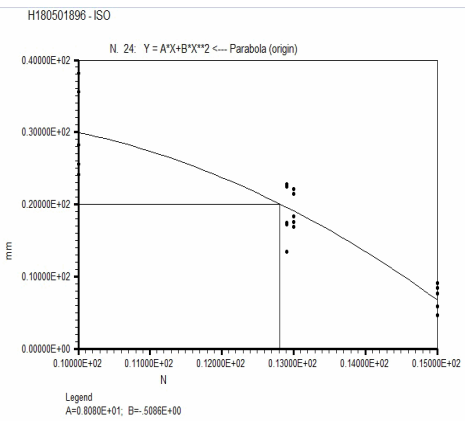
	Method	Client Requirement	Unit	Result	Conformity
C2 bis				1.2	
T2 bis				60.0	
2C2bis				16.0	
I2 bis				8.0	
C3 bis				1.0	
T3 bis				60.0	
2C3bis				13.8	
I3 bis				9.1	
C4 bis				1.1	
T4 bis				60.0	
2C4bis				14.5	
I4 bis				8.7	
C5 bis				1.0	
T5 bis				60.0	
2C5bis				13.2	
I5 bis				9.5	
Mean value of test piece 2				9.0	
Considered value				9.0	
Performance level				3	
Observation				First sequence Cn+1 higher than 3xCn, switch to EN13997	
(+) 4.1. Cutting resistance TDM	EN ISO 13997:1999				
used consumables - blade				Lot 105	
Coefficient of variation			%	3.2	
Adjusted factor for blade with neoprene				0.78	
Mean cut length on neoprene for a load of 5.0 N			mm	28.0	
Normalized cutting stroke lengths			mm	17.4	
Normalized cutting stroke lengths (2)			mm	13.5	
Normalized cutting stroke lengths (3)			mm	17.3	
Normalized cutting stroke lengths (4)			mm	22.5	
Normalized cutting stroke lengths (5)			mm	22.8	
Mean normalized cutting stroke length			mm	18.7	

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	Method	Client Requirement	Unit	Result	Conformity
Cut load adjusted for a cut length of 20 mm Level Performance			N	12.8 C	
					
(+) 4.1. Tear strength resistance: 2016	EN 388 : 2016				
Tear strength			N	200	
Tear strength (2)			N	200	
Tear strength (3)			N	200	
Tear strength (4)			N	200	
Performance level				4	
(+) 4.1. Puncture resistance: 2016	EN 388 : 2016				
Puncture resistance			N	72	
Puncture resistance (2)			N	68	
Puncture resistance (3)			N	61	
Puncture resistance (4)			N	70	
Performance level				2	

END OF TEST REPORT

(+) HOKLAS accredited activity

▲ : The test was carried out by external accredited laboratory under their accreditation scope.

Table of Performance Level for Glove

Test Item	Performance Level					
	0##	1	2	3	4	5

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Abrasion Resistance (EN 388) Number of cycles (minimum)	<100	100	500	2000	8000	---
Blade Cut Resistance (EN 388) Index (I) (minimum)	<1.2	1.2	2.5	5.0	10.0	20.0
Tear Resistance (EN 388) Force (N) (minimum)	<10	10	25	50	75	---
Puncture Resistance (EN 388) Force (N) (minimum)	<20	20	60	100	150	---
Dexterity (EN 420) Diameter of pin (in mm)	---	11.0	9.5	8.0	6.5	5.0

Performance level 0 means the glove falls below the minimum performance level for the given individual hazard

Levels of performance for materials tested with EN ISO 13997

	Level A	Level B	Level C	Level D	Level E	Level F
6.3 TDM: cut resistance (N)	2	5	10	15	22	30

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