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03 May 2018

APPLICANT: QUANTUM SAFETY NETWORK PTE LTD (C35138)

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#03-14/15,
318993 .
SINGAPORE

Date of receipt : 20 Apr. 2018
Testing period : 25 Apr. 2018
: 03 May 2018

Buyer: --

Sample description: AL-GARD 306KL CUT RESISTANT GOATSKIN WITH PARA ARAMID LINER DRIVER GLOVES

Test(s) requested : EN 388

Service : REGULAR

Brand / Section : --

Season : --

End use : --

Factory name : --

Factory code : --

Previous report : --

Product category : --

Product type : --

Test stage : FIRST TEST

Supplier name : --

Exported to : --

1. Conclusion:

	Tests description	Conformity
	EN 388	
1	(+) Abrasion resistance : 2016	Level 2
2	(+) Cut resistance : 2016	Level 3
3	(+) Tear strength resistance: 2016	Level 2
4	(+) Puncture resistance: 2016	Level 2

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.

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>
	8 PAIRS OF GLOVES	Palm, Goatskin Leather, Thickness: 1mm	Natural



H180401506



H180401506A



QUANTUM
SAFETY NETWORK PTE LTD

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3. 8 PAIRS OF GLOVES/

Palm, Goatskin Leather, Thickness: 1mm : Natural

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.1. Abrasion resistance : 2016 used consumables - abrasive used consumables - adhesive Number of cycles at the hole detection Number of cycles at the hole detection (2) Number of cycles at the hole detection (3) Number of cycles at the hole detection (4) Performance level	EN 388 : 2016			Klingspor PL31B Grit 180 3M Scotch 1050 1400 1450 1600 2	
(+) 4.1. Cut resistance : 2016 used consumables - canvas used consumables - blade C1 T1 1C1 I1 C2 T2 1C2 I2 C3 T3 1C3 I3 C4 T4 1C4 I4 C5 T5 1C5	EN 388 : 2016			LEM 6 OLFA RB45 1.0 60.0 22.4 6.1 1.0 60.0 23.6 5.9 1.1 60.0 25.0 5.6 1.0 60.0 22.9 6.0 1.0 60.0 22.5	

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	Method	Client Requirement	Unit	Result	Conformity
I5				6.1	
Mean value of test piece 1				5.9	
C1 bis				1.0	
T1 bis				60.0	
2C1bis				22.5	
I1 bis				6.1	
C2 bis				1.1	
T2 bis				60.0	
2C2bis				24.8	
I2 bis				5.6	
C3 bis				1.0	
T3 bis				60.0	
2C3bis				22.2	
I3 bis				6.2	
C4 bis				1.0	
T4 bis				60.0	
2C4bis				23.0	
I4 bis				6.0	
C5 bis				1.0	
T5 bis				60.0	
2C5bis				23.8	
I5 bis				5.8	
Mean value of test piece 2				6.0	
Considered value				5.9	
Performance level				3	
Observation				First sequence Cn+1 higher than 3xCn, switch to EN13997	
(+) 4.1. Tear strength resistance: 2016	EN 388 : 2016				
Tear strength			N	44	
Tear strength (2)			N	50	
Tear strength (3)			N	69	
Tear strength (4)			N	54	
Performance level				2	

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	Method	Client Requirement	Unit	Result	Conformity
(+) 4.1. Puncture resistance: 2016	EN 388 : 2016				
Puncture resistance			N	69	
Puncture resistance (2)			N	95	
Puncture resistance (3)			N	75	
Puncture resistance (4)			N	70	
Performance level				2	

END OF TEST REPORT

(+) HOKLAS accredited activity

Table of Performance Level for Glove

Test Item	Performance Level					
	0 ^{##}	1	2	3	4	5
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	---

^{##} Performance level 0 means the glove falls below the minimum performance level for the given individual hazard

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