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TEST REPORT

Page 1/8

Report No.: S181115688_1

04 December 2018

冯松泉 / fsq@hhglove.com

APPLICANT: JIANGSU HANVO SAFETY PRODUCT CO. LTD 江苏恒辉安防股份有限公司 (C06752)

江苏省如东县开发新区黄山路
huangshan road, rudong new developme
nt zone, jiangsu province

Date of receipt : 26 Nov. 2018

Testing period : 26 Nov. 2018

: 04 Dec. 2018

Buyer: ---

Sample description: 13G polyester with nitrile sandy finish coated

Style / Article no. : NX304

Test(s) requested : ---

Service : REGULAR

Brand / Section : ---

Season : ---

End use : ---

Factory name : ---

Factory code : ---

For CE Marking : Yes

Previous report : ---

Product category : ---

Product type : ---

Test stage : FIRST TEST

Supplier name : ---

Exported to : ---

1. Conclusion:

	<u>Tests description</u>	<u>Conformity</u>
1	4.1. Abrasion resistance : 2016 : EN 388 : 2016	Level 4
2	4.1. Cut resistance : 2016 : EN 388 : 2016	Level 1
3	4.1. Puncture resistance: 2016 : EN 388 : 2016	Level 1
4	4.1. Tear strength resistance: 2016 : EN 388 : 2016	Level 2
5	4.3.2. pH - Textile (KCl solution) : EN ISO 3071:2006	Pass
6	5.1.2. Sizing : EN 420:2003+A1:2009	Pass
7	5.2. Dexterity : EN 420:2003+A1:2009	Level 5
8	Aromatic amines derived from azo colorants : ISO 14362-1:2017 (combined extraction)	Pass
9	Polycyclic Aromatic Hydrocarbons : ISO/TS 16190: 2013	Pass
10	XRF screening (Tin) : ASTM F2617 – 15	Pass
11	XRF screening : ASTM F2617 – 15	Pass

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

TEST REPORT

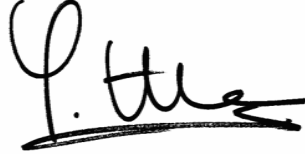
Page 2/8

Report No.: S181115688_1

04 December 2018

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Approved by



Henry YAN
Laboratory Manager



Tony SHU
Chemical lab supervisor

TEST REPORT

Page 3/8

Report No.: S181115688_1

04 December 2018

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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>
	GLOVE	Whole glove 6" (with black binding)	
		Whole glove 7" (with green binding)	
		Whole glove 8" (with brown binding)	
		Whole glove 9" (with yellow binding)	
		Whole glove 10" (with red binding)	
		Whole glove 11" (with grey binding)	
		Whole glove 12" (with white binding)	
		black nitrile palm	
		grey polyester back	
		grey/black polyester/elastic cuff	



181115688

TEST REPORT

Page 4/8

Report No.: S181115688_1

04 December 2018

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3. GLOVE/

Whole glove 6" (with black binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				Pass
Size		≥ 6		6	
Total length of the glove			mm	228	
(+) 5.2. Dexterity	EN 420:2003+A1:2009				
Smallest diameter of the pin picked up			mm	5.0	
Performance Level				5	

Whole glove 7" (with green binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				Pass
Size		≥ 7		7	
Total length of the glove			mm	236	

Whole glove 8" (with brown binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				Pass
Size		≥ 8		8	
Total length of the glove			mm	247	

Whole glove 9" (with yellow binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				Pass
Size		≥ 9		9	
Total length of the glove			mm	257	

Whole glove 10" (with red binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				Pass
Size		≥ 10		10	

TEST REPORT

Report No.: S181115688_1

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	Method	Client Requirement	Unit	Result	Conformity
Total length of the glove			mm	268	

Whole glove 11" (with grey binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				Pass
Size		≥ 11		11	
Total length of the glove			mm	279	

Whole glove 12" (with white binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				Pass
Size		≥ 12		12	
Total length of the glove			mm	287	

black nitrile palm

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.1. Abrasion resistance : 2016	EN 388 : 2016				
Deviation from the test method used consumables - abrasive				No Klingspor PL31B Grit 180	
used consumables - adhesive				3M Scotch	
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				
Deviation from the test method used consumables - canvas				No LEM 6	
used consumables - blade				OLFA RB45	
C1				1.3	
T1				0.6	
1C1				1.7	
I1				1.4	

TEST REPORT

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	Method	Client Requirement	Unit	Result	Conformity
C2				1.7	
T2				0.7	
1C2				1.8	
I2				1.4	
C3				1.8	
T3				0.8	
1C3				1.4	
I3				1.5	
C4				1.4	
T4				0.7	
1C4				1.4	
I4				1.5	
C5				1.4	
T5				0.7	
1C5				1.7	
I5				1.5	
Mean value of test piece 1				1.5	
C1 bis				1.2	
T1 bis				0.6	
2C1bis				1.2	
I1 bis				1.5	
C2 bis				1.2	
T2 bis				0.7	
2C2bis				1.3	
I2 bis				1.6	
C3 bis				1.3	
T3 bis				0.6	
2C3bis				1.3	
I3 bis				1.5	
C4 bis				1.3	
T4 bis				0.7	
2C4bis				1.3	
I4 bis				1.5	
C5 bis				1.3	
T5 bis				0.7	
2C5bis				1.3	
I5 bis				1.5	

TEST REPORT

Page 7/8

Report No.: S181115688_1

04 December 2018

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苏恒辉安防股份有限公司 (C06752)

	Method	Client Requirement	Unit	Result	Conformity
Mean value of test piece 2				1.5	
Considered value				1.5	
Performance level				1	
Observation				No comment	
(+) 4.1. Tear strength resistance: 2016	EN 388 : 2016				
Tear strength			N	49	
Tear strength (2)			N	50	
Tear strength (3)			N	41	
Tear strength (4)			N	45	
Performance level				2	
(+) 4.1. Puncture resistance: 2016	EN 388 : 2016				
Puncture resistance			N	37	
Puncture resistance (2)			N	35	
Puncture resistance (3)			N	36	
Puncture resistance (4)			N	40	
Performance level				1	
(+) 4.3.2. pH - Textile (KCl solution)	EN ISO 3071:2006				Pass
pH value		3.5< - <9.5		6.7	
▲ Polycyclic Aromatic Hydrocarbons	ISO/TS 16190: 2013				Pass
Benzo(a)anthracene		<1	mg/kg	<0.1	
Chrysene		<1	mg/kg	<0.1	
Benzo(b)fluoranthene + Benzo(j)fluoranthene		<1	mg/kg	<0.2	
Benzo(k)fluoranthene		<1	mg/kg	<0.1	
Benzo(a)pyrene		<1	mg/kg	<0.1	
Dibenzo(a,h)anthracene		<1	mg/kg	<0.1	
Benzo(e)pyrene		<1	mg/kg	<0.1	
▲ XRF screening	ASTM F2617 – 15				Pass
Cd (Cadmium)		<100	ppm	<100	
● XRF screening (Tin)	ASTM F2617 – 15				Pass
Sn (Tin)		<150	ppm	<150	

grey polyester back

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TEST REPORT

Page 8/8

Report No.: S181115688_1

04 December 2018

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苏恒辉安防股份有限公司 (C06752)

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.3.2. pH - Textile (KCl solution) pH value	EN ISO 3071:2006	3.5< - <9.5		6.9	Pass
▲ Aromatic amines derived from azo colorants Accessible with fibre extraction Accessible without fibre extraction	ISO 14362-1:2017 (combined extraction)	<30 <30	mg/kg mg/kg	<5 <5	Pass

grey/black polyester/elastic cuff

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.3.2. pH - Textile (KCl solution) pH value	EN ISO 3071:2006	3.5< - <9.5		7.0	Pass
▲ Aromatic amines derived from azo colorants Accessible with fibre extraction Accessible without fibre extraction	ISO 14362-1:2017 (combined extraction)	<30 <30	mg/kg mg/kg	<5 <5	Pass

END OF TEST REPORT

(+)CNAS accreditation

- ▲: 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.

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	---
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