

TEST REPORT

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Report No.: S230706650_2

15 August 2023

info@litasafety.com

APPLICANT: NANTONG LITA SAFETY PRODUCTS CO., LTD
(C52320)

NO. 99 BIXIA NORTH ROAD, RUDONG
ECONOMIC DEVELOPMENT ZONE, NANTONG
CITY, JIANGSU PROVINCE, CHINA
. NANTONG JIANGSU
CHINA

Date of receipt : 25 July 2023
Testing period : 26 July 2023
: 28 July 2023

Buyer: —

Style / Article no. : B665088T

Test(s) requested : —

Service : REGULAR

Brand / Section : —

Season : —

End use : —

Factory name : —

Factory code : —

Revision : Amend sample information.

Previous report : —

Product category : —

Product type : —

Test stage : FIRST TEST

Supplier name : —

Exported to : —

1. Conclusion:

	Tests description	Conformity
	EN 388:2016+A1:2018	
1	Abrasion resistance: 2016	Level 4
2	Cut resistance: 2016	Level 1
3	Tear strength resistance: 2016	Level 2
4	Puncture resistance: 2016	Level 1

	Tests description	Conformity
	EN ISO 21420:2020	
5	pH - Textile (KCl solution)	Pass
6	Aromatic amines derived from azo colorants	Pass
7	Polycyclic Aromatic Hydrocarbons (8)	Pass
8	Dexterity	Level 5
9	XRF screening	Pass
10	XRF screening (Tin)	Pass
11	Phthalates	Fail

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

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Approved by

Henry YAN 严滨
Laboratory Manager

Tony SHU 束永玮
Technical Supervisor for Chemical Lab

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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 black(grey/white) nitrile(nylon/spandex) palm black(grey/white) nitrile(nylon/spandex) palm grey/white nylon/spandex back grey/white nylon/spandex/elastic cuff	



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3. GLOVE/

Whole glove

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.2. Dexterity	EN ISO 21420: 2020				
Smallest diameter of pin fulfilling test condition			mm	5.0	
Smallest diameter of pin fulfilling test condition (2)			mm	5.0	
Smallest diameter of pin fulfilling test condition (3)			mm	5.0	
Smallest diameter of pin fulfilling test condition (4)			mm	5.0	
Performance level				5	

black(grey/white) nitrile(nylon/spandex) palm

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.1. Abrasion resistance: 2016	EN 388:2016 + A1:2018				
used consumables - abrasive				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 + A1:2018				
Deviation from the test method				No	
used consumables - canvas				LEM 6	
used consumables - blade				OLFA RB45	
C1				1.2	
T1				0.6	
1C1				1.2	
I1				1.5	
C2				1.2	

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

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	Method	Client Requirement	Unit	Result	Conformity
T5 bis				0.8	
2C5bis				1.4	
I5 bis				1.6	
Mean value of test piece 2				1.6	
Considered value				1.6	
Performance level				1	
Observation				No comment	
(+) 4.1. Tear strength resistance: 2016	EN 388:2016 + A1:2018				
Tear strength			N	47	
Tear strength (2)			N	53	
Tear strength (3)			N	47	
Tear strength (4)			N	46	
Performance level				2	
(+) 4.1. Puncture resistance: 2016	EN 388:2016 + A1:2018				
Puncture resistance			N	47	
Puncture resistance (2)			N	40	
Puncture resistance (3)			N	46	
Puncture resistance (4)			N	49	
Performance level				1	

black(grey/white) nitrile(nylon/spandex) palm

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCl solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		8.4	
▲ 4.2. Polycyclic Aromatic Hydrocarbons (8)	ISO 16190:2021				Pass
Benzo(a)anthracene		<1	mg/kg	<0.2	
Chrysene		<1	mg/kg	<0.2	
Benzo(b)fluoranthene/ Benz[e]acephenanthrylene		<1	mg/kg	<0.2	
Benzo(k)fluoranthene		<1	mg/kg	<0.2	
Benzo(a)pyrene/ Benzo[def]chrysene		<1	mg/kg	<0.2	

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	Method	Client Requirement	Unit	Result	Conformity
Dibenzo(a,h)anthracene		<1	mg/kg	<0.2	
Benzo(e)pyrene		<1	mg/kg	<0.2	
Benzo(j)fluoranthene		<1	mg/kg	<0.2	
▲ XRF screening	ASTM F2617 – 15				Pass
Cd (Cadmium)		<100	ppm	<100	
● XRF screening (Tin)	ASTM F2617 – 15				Pass
Sn (Tin)		<150	ppm	<150	
(+) Phthalates	ISO 16181-1:2021				Fail
BBP . Butyl benzyl phthalate		<0.1	%	<0.0020	
DBP . Di-butyl phthalate		<0.1	%	<0.0020	
DEHP . Di-(2-ethylhexyl) phthalate		<0.1	%	1.6000	
DIBP . Di-iso-butyl phthalate		<0.1	%	<0.0020	

grey/white nylon/spandex back

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCl solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		7.6	
(+) 4.2. Aromatic amines derived from azo colorants	ISO 14362-1:2017 (w/o extraction)				Pass
Accessible without fibre extraction		<30	mg/kg	<5	

grey/white nylon/spandex/elastic cuff

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.2. pH - Textile (KCl solution)	ISO 3071:2020				Pass
pH value		3.5< - <9.5		7.3	
(+) 4.2. Aromatic amines derived from azo colorants	ISO 14362-1:2017 (w/o extraction)				Pass
Accessible without fibre extraction		<30	mg/kg	<5	

END OF TEST REPORT

(+)CNAS accreditation

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▲: 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.

Unless otherwise specified, the physical test items in this report performed in CTC Shanghai lab were conditioned and tested in the environment of T 23±2°C / RH 50±4%.

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	---
Finger dexterity (EN ISO 21420) Smallest diameter of pin fulfilling test conditions (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

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