

5F Annex Dragon Pearl Plaza
2123 Pudong Avenue
Shanghai 200135 - P.R. CHINA
Tél. : +86 21 68 55 50 32
Fax : +86 21 68 55 50 33
E-mail : ctcshanghai@ctcgroupe.com

TEST REPORT

Page 1/8

Report No.: S190709491_1

06 August 2019

DAVID GUO / david.guo@nmsafety.com.cn
Emma / info012@nmsafety.com.cn

APPLICANT: NANO-METRE INDUSTRIAL LTD 上海千汇实业有限公司 (C00175)
ROOM 904, LVDIHECHUANG BUILDING,
NO. 450, CAOYANG ROAD
200063 SHANGHAI
CHINA

Date of receipt : 31 July 2019
Testing period : 31 July 2019
: 06 Aug. 2019

Buyer: —

Sample description: 18gauge knitted nylon liner/NBR fully coated palm glove

Style / Article no. : NY1859-B
Test(s) requested : —
Service : REGULAR
Brand / Section : —
Season : —
End use : PROTECTIVE GLOVES
Factory name : —
Factory code : —

For CE Marking : Yes

Previous report : —
Product category : —
Product type : —
Test stage : FIRST TEST
Supplier name : —
Exported to : USA, EUROPE

1. Conclusion:

	Tests description	Conformity
1	4.1. Abrasion resistance : 2016 : EN 388 : 2016	Level 2
2	4.1. Cut resistance : 2016 : EN 388 : 2016	Level 1
3	4.1. Puncture resistance: 2016 : EN 388 : 2016	Level 1
4	4.3.2. pH - Textile (KCl solution) : EN ISO 3071:2006	Pass
5	5.1.2. Sizing : EN 420:2003+A1:2009	None
6	5.2. Dexterity : EN 420:2003+A1:2009	Level 5
7	Aromatic amines derived from azo colorants : ISO 14362-1:2017 (combined extraction)	Pass
8	Polycyclic Aromatic Hydrocarbons : ISO/TS 16190: 2013	Pass
9	Tear strength resistance: 2016 : EN 388 : 2016	Level 2
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

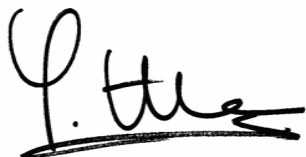
Page 2/8

Report No.: S190709491_1

06 August 2019

APPLICANT: NANO-METRE INDUSTRIAL LTD 上海千汇实业
有限公司 (C00175)

Approved by



Henry YAN
Laboratory Manager



Tony SHU
Chemical lab supervisor

TEST REPORT

Page 3/8

Report No.: S190709491_1

06 August 2019

APPLICANT: NANO-METRE INDUSTRIAL LTD 上海千汇实业
有限公司 (C00175)

2. Sample(s) description assigned by laboratory:

Size	Analyzed product	Description	Sample information
	GLOVE	Whole glove(with green binding) Whole glove(with grey binding) Whole glove(with yellow binding) Whole glove(with brown binding) Whole glove(with black binding) blue nitrile palm blue/white nylon/elastic cuff	



190709491

TEST REPORT

Page 4/8

Report No.: S190709491_1

06 August 2019

APPLICANT: NANO-METRE INDUSTRIAL LTD 上海千汇实业有限公司 (C00175)

3. GLOVE/

Whole glove(with green binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				
Size				7	
Total length of the glove			mm	234	
(+) 5.2. Dexterity	EN 420:2003+A1:2009				
Smallest diameter of the pin picked up			mm	5.0	
Performance Level				5	

Whole glove(with grey binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				
Size				8	
Total length of the glove			mm	242	

Whole glove(with yellow binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				
Size				9	
Total length of the glove			mm	254	

Whole glove(with brown binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				
Size				10	
Total length of the glove			mm	261	

Whole glove(with black binding)

	Method	Client Requirement	Unit	Result	Conformity
(+) 5.1.2. Sizing	EN 420:2003+A1:2009				
Size				11	

TEST REPORT

Page 5/8

Report No.: S190709491_1

06 August 2019

APPLICANT: NANO-METRE INDUSTRIAL LTD 上海千汇实业有限公司 (C00175)

	Method	Client Requirement	Unit	Result	Conformity
Total length of the glove			mm	271	

blue nitrile palm

	Method	Client Requirement	Unit	Result	Conformity
(+) 4.1. Abrasion resistance : 2016 Deviation from the test method 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			No Klingspor PL31B Grit 180 3M Scotch 1350 1350 1200 1600 2	
(+) 4.1. Cut resistance : 2016 Deviation from the test method used consumables - canvas used consumables - blade C1 T1 1C1 I1 C2 T2 1C2 I2 C3 T3 1C3 I3 C4 T4 1C4 I4 C5 T5	EN 388 : 2016			No LEM 6 OLFA RB45 1.2 0.2 1.3 1.2 1.3 0.4 1.3 1.3 1.3 0.4 1.3 1.3 1.3 0.4 1.3 1.3 0.5	

TEST REPORT

Page 6/8

Report No.: S190709491_1

06 August 2019

APPLICANT: NANO-METRE INDUSTRIAL LTD 上海千汇实业有限公司 (C00175)

	Method	Client Requirement	Unit	Result	Conformity
1C5				1.2	
I5				1.4	
Mean value of test piece 1				1.3	
C1 bis				0.9	
T1 bis				0.2	
2C1bis				0.9	
I1 bis				1.2	
C2 bis				0.9	
T2 bis				0.2	
2C2bis				1.1	
I2 bis				1.2	
C3 bis				1.1	
T3 bis				0.2	
2C3bis				1.1	
I3 bis				1.2	
C4 bis				1.1	
T4 bis				0.2	
2C4bis				1.2	
I4 bis				1.2	
C5 bis				1.2	
T5 bis				0.2	
2C5bis				1.2	
I5 bis				1.2	
Mean value of test piece 2				1.2	
Considered value				1.2	
Performance level				1	
Observation				No comment	
(+) 4.1. Puncture resistance: 2016	EN 388 : 2016				
Puncture resistance			N	66	
Puncture resistance (2)			N	64	
Puncture resistance (3)			N	55	
Puncture resistance (4)			N	52	
Performance level				1	
(+) 4.3.2. pH - Textile (KCl solution)	EN ISO 3071:2006				Pass
pH value		3.5< - <9.5		7.9	

TEST REPORT

Page 7/8

Report No.: S190709491_1

06 August 2019

APPLICANT: NANO-METRE INDUSTRIAL LTD 上海千汇实业有限公司 (C00175)

	Method	Client Requirement	Unit	Result	Conformity
(+) Tear strength resistance: 2016	EN 388 : 2016				
Tear strength			N	40	
Tear strength (2)			N	51	
Tear strength (3)			N	37	
Tear strength (4)			N	41	
Performance level				2	
▲ 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		<1	mg/kg	<0.1	
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	
Benzo(j)fluoranthene		<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	

blue/white nylon/elastic cuff

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

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.

TEST REPORT

Page 8/8

Report No.: S190709491_1

06 August 2019

APPLICANT: NANO-METRE INDUSTRIAL LTD 上海千汇实业有限公司 (C00175)

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