



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



中国认可
国际互认
检测
TESTING
CNAS L4577

TEST REPORT

Page 1/4

Report No.: S160909977_1

11 October 2016

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

江苏江阴市徐霞客镇陶家村133-1

Buyer: —

Reference no. : NBR

Order no. : 8# 9# 10# 11#

Test(s) requested : —

Service : REGULAR

Brand / Section : —

Season : —

End use : —

Factory name : —

Factory code : —

Date of receipt : 28 Sept. 2016

Testing period : 11 Oct. 2016

: 11 Oct. 2016

For CE Marking : Yes

Previous report : —

Product category : —

Product type : —

Test stage : FIRST TEST

Supplier name : —

Exported to : —

1. Conclusion:

	Tests description	Conformity
1	Abrasion resistance	Level 4
2	Blade cut resistance	Level 1
3	Puncture resistance	Level 1
4	Tear resistance	Level 0

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

Approved by

Henry YAN
Laboratory Supervisor

The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample(s) tested. Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, except in full, without the written approval of the testing laboratory.

CNAS has accredited the laboratory under the China National Accreditation Scheme (CNAS) for specific laboratory activities as listed in the CNAS directory of accredited laboratories. The results shown in this report were determined by the laboratory in accordance with its terms of accreditation.

TEST REPORT

Page 2/4

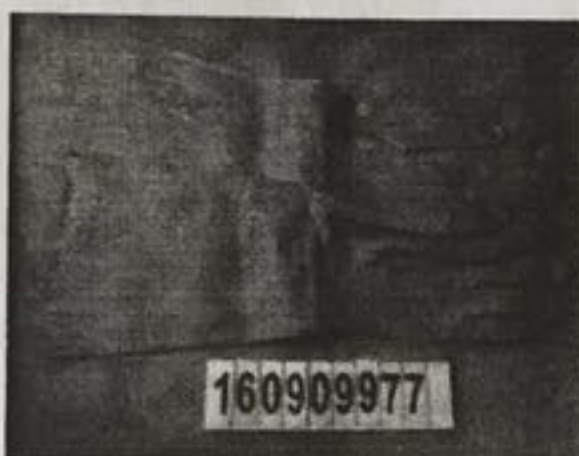
Report No.: S160909977_1

11 October 2016

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

2. Sample(s) description assigned by laboratory:

Size	Analyzed product	Description	Sample information
	GLOVE	Palm	



160909977

The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample(s) tested. Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, except in full, without the written approval of the testing laboratory.

CNAS has accredited the laboratory under the China National Accreditation Scheme (CNAS) for specific laboratory activities as listed in the CNAS directory of accredited laboratories. The results shown in this report were determined by the laboratory in accordance with its terms of accreditation.

TEST REPORT

Page 3/4

Report No.: S160909977_1

11 October 201

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

3. GLOVE/

Palm

	Method	Client Requirement	Unit	Result	Conformity
(+) Abrasion resistance	EN 388 : 2003				
Number of cycles to breakthrough - Lowest value			cycles	>8000	
Performance Level				Level 4	
(+) Blade cut resistance	EN 388 : 2003				
I1			Index	1.5	
I2			Index	1.3	
I3			Index	1.4	
I4			Index	1.3	
I5			Index	1.4	
Imean			Index	1.4	
I1(2)			Index	1.2	
I2(2)			Index	1.4	
I3(2)			Index	1.1	
I4(2)			Index	1.2	
I5(2)			Index	1.3	
Imean(2)			Index	1.3	
Performance level				Level 1	
(+) Tear resistance	EN 388 : 2003				
Total torn tearing force - Lowest value			N	4	
Performance Level				Level 0	
(+) Puncture resistance	EN 388 : 2003				
Force recorded - Lowest value			N	52	
Performance Level				Level 1	

END OF TEST REPORT

(+)CNAS accreditation

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

The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample(s) tested. Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, except in full, without the written approval of the testing laboratory.

CNAS has accredited the laboratory under the China National Accreditation Scheme (CNAS) for specific laboratory activities as listed in the CNAS directory of accredited laboratories. The results shown in this report were determined by the laboratory in accordance with its terms of accreditation.

TEST REPORT

Page 4/4

Report No.: S160909977_1

11 October 2016

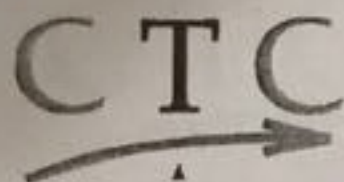
APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

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

The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample(s) tested. Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, except in full, without the written approval of the testing laboratory.

CNAS has accredited the laboratory under the China National Accreditation Scheme (CNAS) for specific laboratory activities as listed in the CNAS directory of accredited laboratories. The results shown in this report were determined by the laboratory in accordance with its terms of accreditation.



SHANGHAI
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 1/3

Report No.: S170201383_1

17 March 2017

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

江苏江阴市徐霞客镇陶家村133-1

Buyer: —

Test(s) requested : —
Service : **REGULAR**
Brand / Section : —
Season : —
End use : **NBR**
Factory name : —
Factory code : —

Date of receipt : 28 Feb. 2017
Testing period : 02 Mar. 2017
: 17 Mar. 2017

For CE Marking : Yes

Previous report : —
Product category : —
Product type : —
Test stage : **FIRST TEST**
Supplier name : —
Exported to : 欧美

1. Conclusion:

	Tests description	Conformity
1	Determination of resistance to permeation by chemicals : EN 16523-1	None

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

Approved by

Henry YAN
Laboratory Supervisor

The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample(s) tested. Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, except in full, without the written approval of the testing laboratory.

TEST REPORT

Page 2/3

Report No.: S170201383_1

17 March 2018

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

2. Sample(s) description assigned by laboratory:

Size	Analyzed product	Description	Sample information
	GLOVE	green palm -L	



170201383

TEST REPORT

Page 3/3

Report No.: S170201383_1

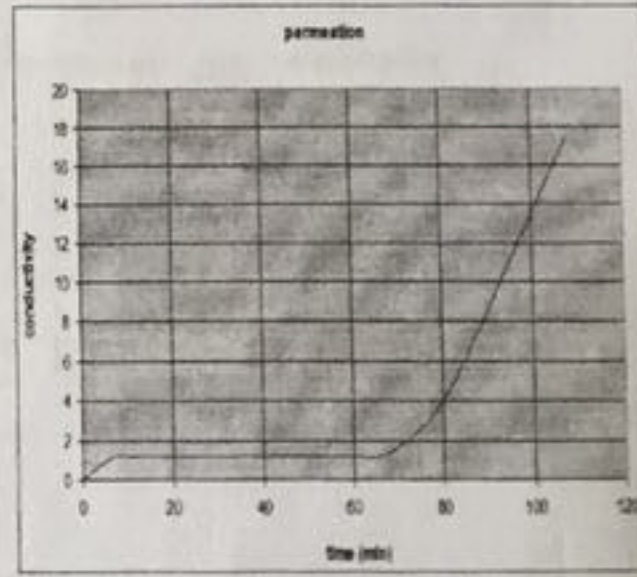
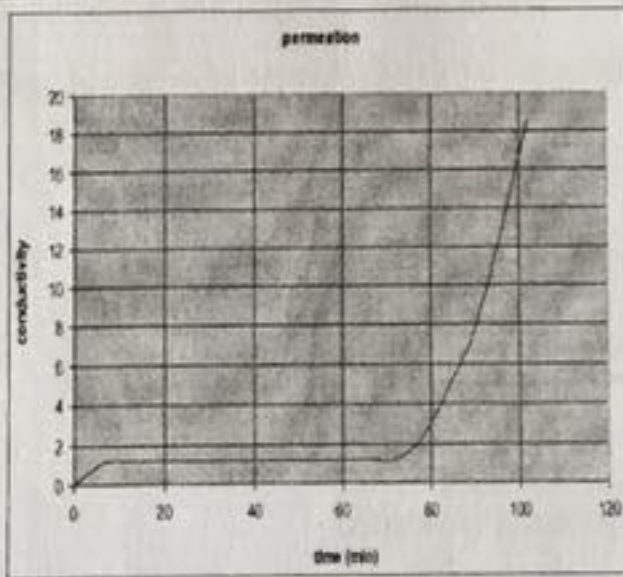
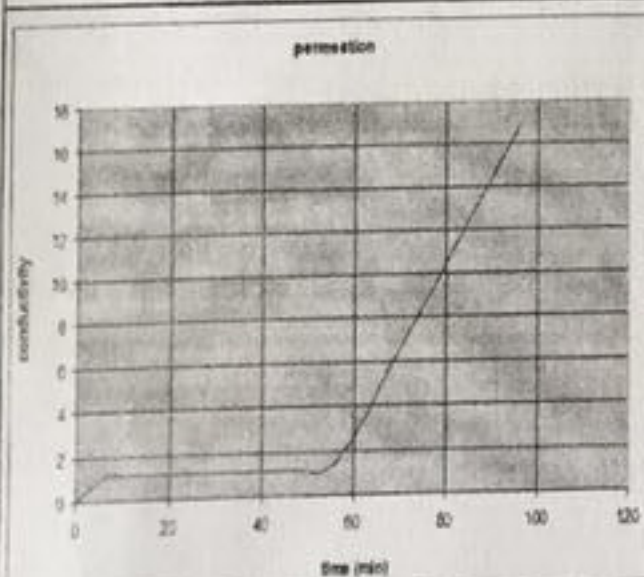
17 March 2017

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

3. GLOVE/

green palm -L

	Method	Client Requirement	Unit	Result	Conformity
▲ Determination of resistance to permeation by chemicals Chemical product Collection system Place of taking samples Side in contact with the chemicals for test Collector medium Flow rate Testing temperature Detector Measurement Normalized Breakthrough Time Normalized Breakthrough Time (2) Normalized Breakthrough Time (3) Minimum Normalized Breakthrough Time Performance (In accordance to EN374-1 Table1) Observation	EN 16523-1: 2015			Sulfuric acid 96% (CAS 7664-93-9) Open-loop Palm External Liquid (Water) 10 mL/min 23+/-1 °C Conductimetric Periodic 92 min 98 min 104 min 92 min 3 Slight swelling & color change	



END OF TEST REPORT

▲ The test was carried out by external laboratory assessed as competent.

The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample (s) tested. Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, except in full, without the written approval of the testing laboratory.



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



中国认可
国际互认
检测
TESTING
CNAS L457

Page 1/7

TEST REPORT

Report No.: S161213285_1

29 December 2016

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

江苏江阴市徐霞客镇陶家村133-1

Buyer: —

Test(s) requested : —

Service : REGULAR

Brand / Section : —

Season : —

End use : NBR

Factory name : —

Factory code : —

Date of receipt : 01 Dec. 2016

Testing period : 30 Nov. 2016

: 29 Dec. 2016

For CE Marking : Yes

Previous report : —

Product category : —

Product type : —

Test stage : FIRST TEST

Supplier name : —

Exported to : 欧美

1. Conclusion:

	Tests description	Conformity
1	Air Leak Test	Pass
2	Azo dyes - Textile	Pass
3	Determination of resistance to permeation by chemicals	None
4	Dexterity	Level 5
5	Dimethylfumarate	Pass
6	pH - Textile (KCl solution)	Pass
7	Polycyclic Aromatic Hydrocarbons	Pass
8	Sizing	None
9	Water Leak Test	Pass
10	XRF screening	Pass

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

Approved by

Henry YAN
Laboratory Supervisor

The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample(s) tested in full, without the written approval of the testing laboratory. Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, except CNAS has accredited the laboratory under the China National Accreditation Scheme (CNAS) for specific laboratory activities as listed in the CNAS directory of accredited laboratories. The results shown in this report were determined by the laboratory in accordance with its terms of accreditation.

TEST REPORT

Page 2/7

Report No.: S161213285_1

29 December 2011

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

2. Sample(s) description assigned by laboratory:

Size	Analyzed product	Description	Sample information
	GLOVE	Whole glove green NBR palm green NBR palm - A green NBR palm - F green NBR palm - K	



161213285

The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample(s) tested. Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, except in full, without the written approval of the testing laboratory.

CNAS has accredited the laboratory under the China National Accreditation Scheme (CNAS) for specific laboratory activities as listed in the CNAS directory of accredited laboratories. The results shown in this report were determined by the laboratory in accordance with its terms of accreditation.

TEST REPORT

Report No.: S161213285_1

29 December 2016

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

3. GLOVE/

Whole glove

	Method	Client Requirement	Unit	Result	Conformity
▲ Air Leak Test Glove thickness Air pressure used to test Result	EN 374-2: 2014	No air bubbles	mm kPa	0.8 7.5 No air bubbles	Pass
▲ Water Leak Test Result	EN 374-2: 2014	No water leak		No water leak	Pass
(+) Sizing Size Total length of the glove	EN 420:2003+A1:2009		mm	29 455	
(+) Dexterity Smallest diameter of the pin picked up Performance Level	EN 420:2003+A1:2009		mm	5.0 Level 5	

green NBR palm

	Method	Client Requirement	Unit	Result	Conformity
▲ Azo dyes - Textile Azo dyes	EN 14362-1: 2012	<30	mg/kg	<5	Pass
▲ Dimethylfumarate Dimethylfumarate	ISO/TS 16186: 2012	<0.1	mg/kg	<0.1	Pass
▲ XRF screening Sn (Tin) Cd (Cadmium)	ASTM F 2617-15	<150 <100	ppm ppm	<150 <100	Pass
▲ Polycyclic Aromatic Hydrocarbons Benzo(a)anthracene Chrysene Benzo(b)fluoranthene + Benzo(j)fluoranthene Benzo(k)fluoranthene Benzo(a)pyrene Dibenzo(a,h)anthracene Benzo(e)pyrene	ISO/TS 16190: 2013	<1 <1 <1 <1 <1 <1 <1	ppm ppm ppm ppm ppm ppm ppm	<0.1 <0.1 <0.2 <0.1 <0.1 <0.1 <0.1	Pass

The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample(s) tested. Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, except in full, without the written approval of the testing laboratory.

CNAS has accredited the laboratory under the China National Accreditation Scheme (CNAS) for specific laboratory activities as listed in the CNAS directory of accredited laboratories. The results shown in this report were determined by the laboratory in accordance with its terms of accreditation.

TEST REPORT

Report No.: S161213285_1

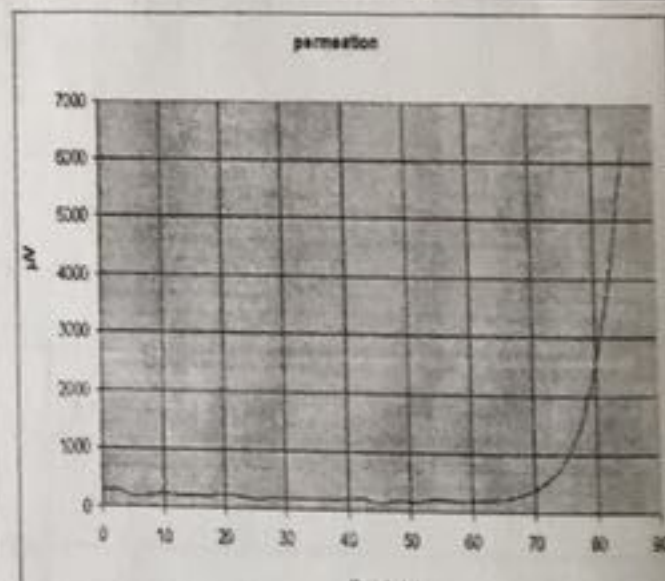
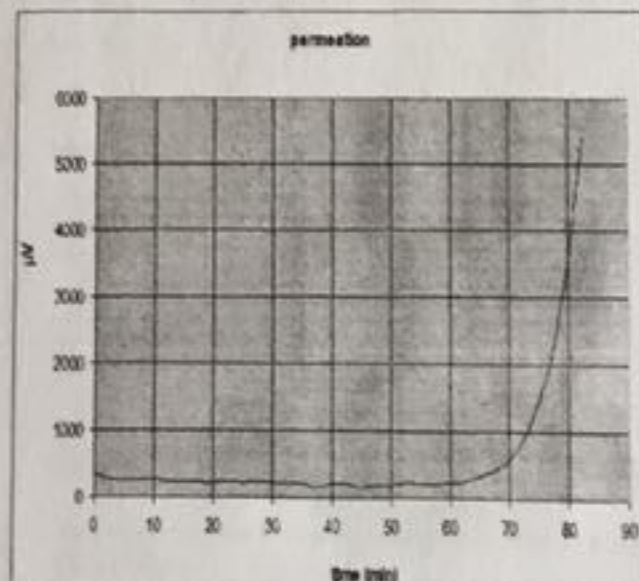
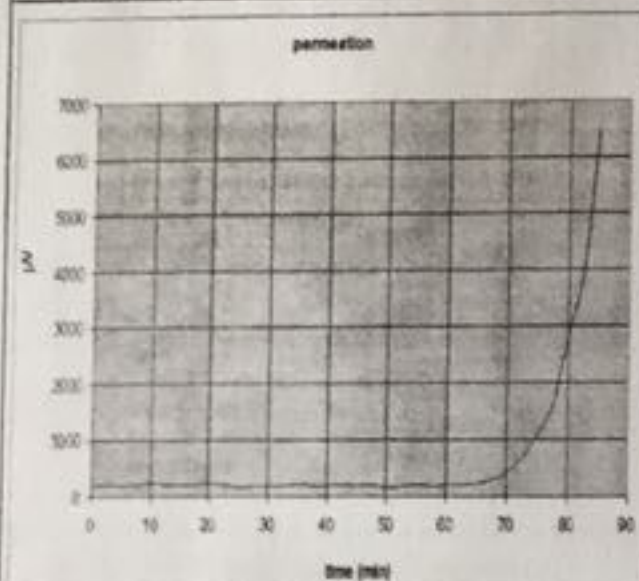
29 December 2016

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

	Method	Client Requirement	Unit	Result	Conformity
pH - Textile (KCl solution)	EN ISO 3071:2006				Pass
pH value		3.5< - <9.5		6.4	

green NBR palm - A

	Method	Client Requirement	Unit	Result	Conformity
▲ Determination of resistance to permeation by chemicals Mean thickness Mean thickness (2) Mean thickness (3) NBT at NPR 1.0 μ cm negative square min to the minus one power NBT at NPR 1.0 μ cm negative square min to the minus one power (2) NBT at NPR 1.0 μ cm negative square min to the minus one power (3) Performance (In accordance to EN374-1 Table1) Observation Chemical product (CAS.NO.) Collection system Place of taking samples Side in contact with the chemicals for test Collector medium Flow rate (ml/min) Testing temperature Detector	EN 16523-1: 2015				
			mm	0.81	
			mm	0.79	
			mm	0.76	
			min	83	
			min	84	
			min	85	
				3	
				Slight swelling	
				Methanol (CAS 67-56-1)	
				Open-loop	
				Palm	
				External	
				Gas (Nature: Air)	
				200-250	
			°C	23+/-1	
				Conductimetric	



The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample(s) tested. Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, except in full, without the written approval of the testing laboratory.

CNAS has accredited the laboratory under the China National Accreditation Scheme (CNAS) for specific laboratory activities as listed in the CNAS directory of accredited laboratories. The results shown in this report were determined by the laboratory in accordance with its terms of accreditation.

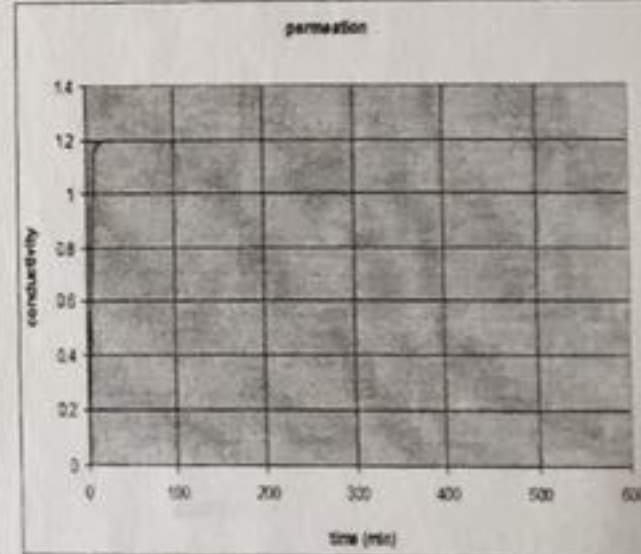
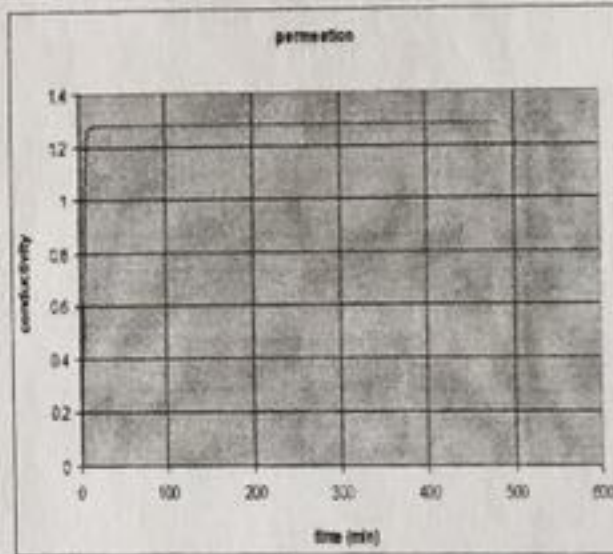
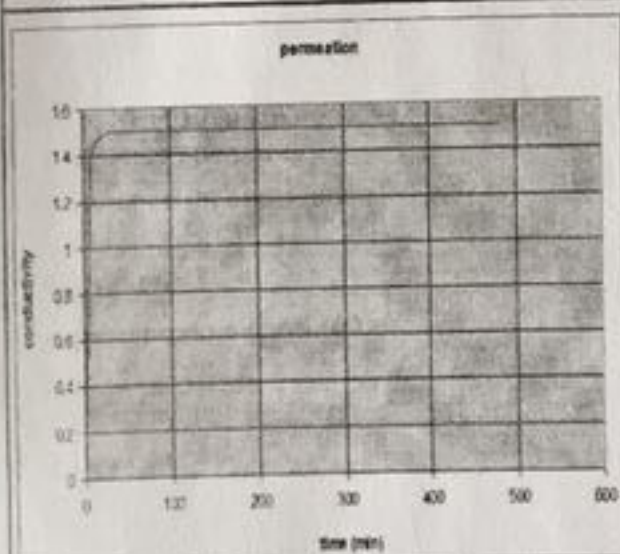
TEST REPORT

Report No.: S161213285_1

29 December 2016

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

	Method	Client Requirement	Unit	Result	Conformity
Mean thickness			mm	0.71	
Mean thickness (2)			mm	0.72	
Mean thickness (3)			mm	0.72	
NBT at NPR 1.0 μ cm negative square min to the minus one power			min	480	
NBT at NPR 1.0 μ cm negative square min to the minus one power (2)			min	480	
NBT at NPR 1.0 μ cm negative square min to the minus one power (3)			min	480	
Performance (In accordance to EN374-1 Table1)				6	
Observation				Slight swelling	
Chemical product (CAS.NO.)				Sodium hydroxide 40% (CAS 1310-73-2)	
Collection system				Open-loop	
Place of taking samples				Palm	
Side in contact with the chemicals for test				External	
Collector medium				Liquid (Nature: Grade 3 water)	
Flow rate (ml/min)				10	
Testing temperature			°C	23+/-1	
Detector				Conductimetric	



END OF TEST REPORT

(+)CNAS accreditation

▲ The test was carried out by external laboratory assessed as competent.

Table of Performance Level for Glove

Test Item	Performance Level				
	0	1	2	3	4

The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample (s) tested. Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, except in full, without the written approval of the testing laboratory.

CNAS has accredited the laboratory under the China National Accreditation Scheme (CNAS) for specific laboratory activities as listed in the CNAS directory of accredited laboratories. The results shown in this report were determined by the laboratory in accordance with its terms of accreditation.



中国认可
国际互认
检测
TESTING
CNAS L45

Page 7/7

TEST REPORT

Report No.: S161213285_1

29 December 201

APPLICANT: 江阴市金拇指工贸有限公司 (C36253)

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

The report is issued by CTC Shanghai under its General Conditions printed overleaf. The results shown in this report refer only to the sample (s). Except by special arrangement, the test items will not be retained by CTC Shanghai for more than 6 months. The test report shall not be reproduced, in full, without the written approval of the testing laboratory.

CNAS has accredited the laboratory under the China National Accreditation Scheme (CNAS) for specific laboratory activities as listed in the CNAS d of accredited laboratories. The results shown in this report were determined by the laboratory in accordance with its terms of accreditation.