



CTC Shanghai  
5F Annex Dragon Pearl Plaza  
2123 Pudong Avenue  
Shanghai 200135, P.R. CHINA  
ctcshanghai@ctcgroupe.com

# TEST REPORT



TESTING  
CNAS L4577  
November 13, 2014  
Page 1/5

Report No.: SH62563-14

**APPLICANT:**  
Vicsa Safety Comercial Limitada

Joan  
Pintor Cicarelli 683, San Joaquin, Santiago, Chile  
TEL: +56 2 25894000  
FAX: 76.242.324-3  
EMAIL: joan@ptccn.com

<b>Test(s) requested :</b> --	<b>Product Category :</b> --	<b>Product Type :</b> --
<b>Sample description:</b> --		
<b>Style / Article no.:</b> Guante Latex Albanil Reforzado	<b>Buyer:</b> --	
<b>Ref no.:</b> --	<b>Exported to:</b> --	
	<b>Date of receipt of application form:</b> November 5, 2014 pm	
<b>Order no.:</b> 300950720662/300950720663/ 300950720664/300950720045	<b>Date of receipt of sample:</b> November 5, 2014 pm	
<b>End use:</b> --	<b>Testing period:</b> November 5, 2014 pm-- November 13, 2014	
<b>Number of sample(s)</b> SEVERAL PAIRS OF SAMPLES	<b>Service required:</b> REGULAR	

## 1. Conclusion:

Testing	Result	Combine / Separate Test Item(s)	Failed Test Item(s)
Dexterity of glove	Level 5	(S01)	--
Sizing of glove	14, 16, 18, 18	(S01)(S03)(S04)(S05) (S06)(S07)(S08)(S09)	--
Abrasion resistance of glove	Level 2	(S02)	--
Blade cut resistance of glove	Level 0	(S02)	--
Tear resistance of glove	Level 0	(S02)	--
Puncture resistance of glove	Level 0	(S02)	--
Azo dyes	P	(S02)	--
pH value	P	(S02)	--
■ Dimethyl Fumarate Content	P	(S02)	--
Tin detection	P	(S02)	--
Cadmium detection	P	(S02)	--

■ This test is not covered by CNAS accreditation.

Note: P: Pass F: Fail

## Comments:

For the submitted samples, the Dexterity got level 5; the sizing of gloves were 14, 16, 18, 18 and the pH value tests passed the requirement according to EN420 standard.  
The Abrasion resistance of glove got level 2; Blade cut resistance of glove got level 0; the Tear resistance of glove got level 0; the Puncture resistance of glove got level 0 according to EN388 standard.  
All the other tests passed the requirements.

Approved by

**Original Signed**  
Henry YAN  
Lab Manager

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

Report No.: SH62563-14

**APPLICANT:**  
**Vicsa Safety Comercial Limitada**

## 2. Label(s) on the sample(s):

Sample(s)	Size	Style / Article no.:	Sub-sample(s)	Component(s)	Colour
(01)	--	Guante Latex Albanil Reforzado	(a)	Glove	Black
			(b)	Palm	Black
(02)	--	Guante Latex Albanil Reforzado	(a)	Glove	Black
(03)	--	Guante Latex Albanil Reforzado	(a)	Glove	Black
(04)	--	Guante Latex Albanil Reforzado	(a)	Glove	Black
(05)	--	Guante Latex Albanil Reforzado	(a)	Glove	Black
(06)	--	Guante Latex Albanil Reforzado	(a)	Glove	Black
(07)	--	Guante Latex Albanil Reforzado	(a)	Glove	Black
(08)	--	Guante Latex Albanil Reforzado	(a)	Glove	Black

## 3. Sample(s) description assigned by laboratory:

Test item	Sample(s)	Combine / Separate sub-sample(s)
(S01)	(01)	(a)
(S02)	(01)	(b)
(S03)	(02)	(a)
(S04)	(03)	(a)
(S05)	(04)	(a)
(S06)	(05)	(a)
(S07)	(06)	(a)
(S08)	(07)	(a)
(S09)	(08)	(a)



## 4. Testing result:

### 4.1 EN 420

TEST METHOD		Test item(s)	Requirement	P/F
1	<b>Dexterity of glove*</b> <b>(EN 420:2003 §6.2+A1:2009)</b> Highest value of four tests : Performance Level :	(S01)  5.0 5	--- ---	---

TEST METHOD		Test item(s)		Requirement	P/F
2	<b>Sizing of glove*</b> <b>(EN 420:2003 §6.1+A1:2009)</b> S01 S03	Total length (mm) 307 309	Glove Size  14	--	--

TEST METHOD		Test item(s)		Requirement	P/F
3	<b>Sizing of glove*</b> <b>(EN 420:2003 §6.1+A1:2009)</b> S04 S05	Total length (mm) 321 330	Glove Size  16	--	--

Note: P: Pass F: Fail

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.

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

**APPLICANT:**  
**Vicsa Safety Comercial Limitada**

TEST METHOD		Test item(s)		Requirement	P/F
4	<b>Sizing of glove*</b> <b>(EN 420:2003 §6.1+A1:2009)</b> S06 S07	Total length (mm) 345 342	Glove Size  18	--	--

TEST METHOD		Test item(s)		Requirement	P/F
5	<b>Sizing of glove*</b> <b>(EN 420:2003 §6.1+A1:2009)</b> S08 S09	Total length (mm) 346 346	Glove Size  18	--	--

Note: P: Pass F: Fail

\*Remark: Only two samples were measured for each sizing.

#### 4.2 EN 388

TEST METHOD		Test item(s)		Requirement	P/F
		(S02)			
1	<b>Blade cut resistance of glove #</b> <b>(EN 388:2003 §6.2)</b> Sequence	Index (I)		---	---
		Test 1	Test 2		
		1	1.1		
		2	1.1		
		3	1.1		
		4	1.1		
5	1.1				
Average (I):		1.1	1.1		
Lowest average value ( I ) :		1.1		---	
Performance Level :		0		---	---
2	<b>Tear resistance of glove #</b> <b>(EN 388:2003 §6.3)</b>	Lowest value of four tests (N):	2	---	
		Performance Level :	0	---	---
3	<b>Puncture resistance of glove #</b> <b>(EN 388:2003 §6.4)</b>	Lowest value of four tests (N):	7	---	
		Performance Level :	0	---	---
4	<b>Abrasion resistance of glove #</b> <b>(EN 388:2003 §6.1)</b>	Lowest value of four tests :	700	---	
		Performance Level :	2	---	---

# Refer to the below page for details of the performance level of glove.

Note: P: Pass F: Fail

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.

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

**APPLICANT:**  
**Vicsa Safety Comercial Limitada**

**Table of Performance Level for Glove**

Test Item	Performance Level					
	0 <sup>##</sup>	1	2	3	4	5
<b>Abrasion Resistance (EN 388:2003 §6.1)</b> Number of cycles (minimum)	< 100	100	500	2000	8000	---
<b>Blade Cut Resistance (EN 388:2003 §6.2)</b> Index (I) (minimum)	< 1.2	1.2	2.5	5.0	10.0	20.0
<b>Tear Resistance (EN 388:2003 §6.3)</b> Force (N) (minimum)	< 10	10	25	50	75	---
<b>Puncture Resistance (EN 388:2003 §6.4)</b> Force (N) (minimum)	< 20	20	60	100	150	---
<b>Dexterity (EN 420:2003 §6.2+A1:2009)</b> Diameter of pin (in mm)	---	11.0	9.5	8.0	6.5	5.0

<sup>##</sup> Performance level 0 means the glove falls below the minimum performance level for the given individual hazard.

### 4.3 Azo dyes

TEST METHOD	Test Items	Client Requirement	P/F
	(S02)		
1 Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	P

Note: P: Pass F: Fail

\*Test method according to EN 14362-1:2012 or EN ISO 17234-1:2010 or EN 14362-3:2012 or EN ISO 17234-2:2011. Removal of fat by n-hexane (in case of leather), treatment with citric buffer, reductive cleavage with sodium dithionite, extraction with ether, detection by GC/MS and/or HPLC/DAD. (Detection limit: 5 mg/kg)

### List of aromatic amines

(Detection limit: 5mg/kg)

Benzidine	3,3'-Dimethoxybenzidine	O-Anisidine
4-Aminobiphenyle	3,3'-Dimethylbenzidine	4-Aminoazobenzene
4-Chloro-O-Toluidine	4,4'-Methylenedi-o-Toluidine	2,4 Xylidine
2-Naphthylamine	P-Cresidine	2,6 Xylidine
O-Aminoazotoluene	4,4'-Methylene-BIS-(2-Chloroaniline)	
5-Nitro-O-Toluidine	4,4'-Oxydianiline	
4-Chloroaniline	4,4'-Thiodianiline	
4-Methoxy-M-Phenylenediamine	O-Toluidine	
4,4'-Diaminodiphenylmethane	2,4,5-Trimethylaniline	
3,3'-Dichlorobenzidine	4-Methyl-M-Phenylenediamine	

### Interpretation of test results:

- (1) In the case of levels per amine component ≤30 mg/kg: Not detected. According to the analysis as carried out, azo colourants banned under the ordinance on commodities were not detected in the article submitted.
- (2) In the case of levels per amine component >30 mg/kg: The analysis result suggests that the article submitted has been manufactured or treated by using azo colourants banned under the ordinance on commodities.
- (3) In case of a result between 25 and 35 mg/kg: We remark that due to the error range of the method, these measurement values represent a border line case.
- (4) For determination of 4-Aminoazobenzene, EN 14362-3:2012 or EN ISO 17234-2:2011 will be performed on the sample.

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.

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

**APPLICANT:**  
**Vicsa Safety Comercial Limitada**

**4.4 pH value**

According to EN ISO 3071:2006

TEST METHOD	Test Items	Client's Requirement	P/F
	(S02)		
pH value Average value(nearest to 0.1)	8.4	>3.5 & <9.5	P

Note: P: Pass F: Fail

**4.5 Dimethyl Fumarate Content:**

TEST METHOD	Test Items	Requirement	P/F
	(S02)		
1 Dimethyl Fumarate Content (CAS: 624-49-7) (ISO/TS 16186: 2012) Detection Limit: =0.1mg/kg	<0.1	<0.1	P

Note: P: Pass F: Fail

Remark:

Laboratory Reporting Limit = 0.1 mg/kg

Mg/kg = milligram per kilogram

ND = Not detected

Method: Sample was extracted with organic solvent and analyzed by Gas Chromatograph Mass Spectrometer.

**4.6 Tin Detection:**

TEST METHOD	Test Items	Requirement	P/F
	(S02)		
Tin XRF Screening (With reference to ASTM F 2617-08) Metal Content in (mg/kg or ppm)	<350	<350	P

Note: P: Pass F: Fail

**4.7 Cadmium Detection:**

TEST METHOD	Test Items	Requirement	P/F
	(S02)		
Cadmium XRF Screening (With reference to ASTM F 2617-08) Metal Content in (mg/kg or ppm)	<100	<100	P

Note: P: Pass F: Fail

**- End of report -**

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.

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