



CTC Shanghai  
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# TEST REPORT



TESTING  
CNAS L4577  
November 13, 2014  
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Report No.: SH62563-14

**APPLICANT:**  
Vicsa Safety Comercial Limitada

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<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

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## 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

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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		---	---
		0		---	---
3	<b>Puncture resistance of glove #</b> <b>(EN 388:2003 §6.4)</b> Lowest value of four tests (N):	7		---	---
		0		---	---
4	<b>Abrasion resistance of glove #</b> <b>(EN 388:2003 §6.1)</b> Lowest value of four tests :	700		---	---
		2		---	---

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

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**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.

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**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 -**

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