



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

TEST REPORT



TESTING
CNAS L4577

April 2, 2014
Page 1/6

Report No.: SH60529-14

APPLICANT:
VICSA SAFETY COMERCIAL LIMITADA

PAULO BARRIGA
PURCHASE & DEVELOPMENT
AV PINTOR CICALI 683, SAN JOAQUIN,
SANTIAGO DE CHILE
TEL: 056 02 2589 4000
EMAIL: PBARRIGA@VICSA.CL

Test(s) requested :	--	Product Category :	--	Product Type :	--
Sample description:	GUANTE MULTIFLEX POLYESTER LATEX				
Style / Article no.:	301000780052	Buyer:	CHILE		
Ref no.:	GUANTE MULTIFLEX POLYESTER LATEX	Exported to:	CHILE		
Order no.:	--	Date of receipt of application form:	MARCH 26, 2014		
End use:	--	Date of receipt of sample:	MARCH 26, 2014		
		Testing period:	MARCH 26, 2014-- APRIL 2, 2014		
Number of sample(s)	SEVERAL PAIRS OF SAMPLES	Service required:	REGULAR		

1. Conclusion:

Testing	Result	Combine / Separate Test Item(s)	Failed Test Item(s)
Dexterity of glove	Level 5	(S01)	--
Sizing of glove	6, 7, 8 9, 10	(S01)(S05)(S06)(S07)(S08) (S09)(S10)(S11)(S12)(S13)	--
Abrasion resistance of glove	Level 2	(S02)	
Blade cut resistance of glove	Level 1	(S02)	--
Tear resistance of glove	Level 3	(S02)	--
Puncture resistance of glove	Level 1	(S02)	--
Azo dyes	P P P	(S02)(S03)(S04)	--
pH value	P F P	(S02)(S03)(S04)	(S03)
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 sizes of gloves are #6, #7, #8, #9, #10, the pH value tests on palm and cuff passed the requirement according to EN420 standard.
The pH value tests on back failed the requirement according to EN420 standard
The Abrasion resistance of glove got level 2; Blade cut resistance of glove got level 1; the Tear resistance of glove got level 3; the Puncture resistance of glove got level 1 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.

APPLICANT:
VICSA SAFETY COMERCIAL LIMITADA

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

Sample(s)	Size	Ref no.:	Sub-sample(s)	Component(s)	Colour
(01)	--	GUANTE MULTIFLEX POLYESTER LATEX	(a)	Glove	Navy/ Black
		GUANTE MULTIFLEX POLYESTER LATEX	(b)	Palm	Black
		GUANTE MULTIFLEX POLYESTER LATEX	(c)	Back	Navy
		GUANTE MULTIFLEX POLYESTER LATEX	(d)	Cuff	Navy
(02)	--	GUANTE MULTIFLEX POLYESTER LATEX	(a)	Glove	Navy/ Black
(03)	--	GUANTE MULTIFLEX POLYESTER LATEX	(a)	Glove	Navy/ Black
(04)	--	GUANTE MULTIFLEX POLYESTER LATEX	(a)	Glove	Navy/ Black
(05)	--	GUANTE MULTIFLEX POLYESTER LATEX	(a)	Glove	Navy/ Black
(06)	--	GUANTE MULTIFLEX POLYESTER LATEX	(a)	Glove	Navy/ Black
(07)	--	GUANTE MULTIFLEX POLYESTER LATEX	(a)	Glove	Navy/ Black
(08)	--	GUANTE MULTIFLEX POLYESTER LATEX	(a)	Glove	Navy/ Black
(09)	--	GUANTE MULTIFLEX POLYESTER LATEX	(a)	Glove	Navy/ Black
(10)	--	GUANTE MULTIFLEX POLYESTER LATEX	(a)	Glove	Navy/ Black

3. Sample(s) description assigned by laboratory:

Test item	Sample(s)	Combine / Separate sub-sample(s)
(S01)	(01)	(a)
(S02)	(01)	(b)
(S03)	(01)	(c)
(S04)	(01)	(d)
(S05)	(02)	(a)
(S06)	(03)	(a)
(S07)	(04)	(a)
(S08)	(05)	(a)
(S09)	(06)	(a)
(S10)	(07)	(a)
(S11)	(08)	(a)
(S12)	(09)	(a)
(S13)	(10)	(a)



4. Testing result:

4.1 EN 420

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

TEST METHOD		Test item(s)		Requirement	P/F
2	Sizing of glove* (EN 420:2003 §6.1+A1:2009)	Total length (mm)	Glove Size	-	-
	S01	220	6		
	S05	220			

Note: P: Pass F: Fail

APPLICANT:
VICSA SAFETY COMERCIAL LIMITADA

TEST METHOD		Test item(s)		Requirement	P/F
3	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S06 S07	Total length (mm)	Glove Size	-	-
		231	7		
		230			

TEST METHOD		Test item(s)		Requirement	P/F
4	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S08 S09	Total length (mm)	Glove Size	-	-
		240	8		
		242			

TEST METHOD		Test item(s)		Requirement	P/F
5	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S10 S11	Total length (mm)	Glove Size	-	-
		251	9		
		251			

TEST METHOD		Test item(s)		Requirement	P/F
6	Sizing of glove* (EN 420:2003 §6.1+A1:2009) S12 S13	Total length (mm)	Glove Size	-	-
		261	10		
		262			

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	Blade cut resistance of glove # (EN 388:2003 §6.2) Sequence	Index (I)		---	---
		Test 1	Test 2		
		1	2.0		
		2	1.8		
		3	1.9		
		4	1.5		
		5	1.5		
Average (I):		1.5	1.7		
Lowest average value (I) :		1.7			
Performance Level :		1			

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

2	Tear resistance of glove # (EN 388:2003 §6.3) Lowest value of four tests (N): Performance Level :	50 3	---	---
3	Puncture resistance of glove # (EN 388:2003 §6.4) Lowest value of four tests (N): Performance Level :	37 1	---	---
4	Abrasion resistance of glove # (EN 388:2003 §6.1) Lowest value of four tests : Performance Level :	1500 2	---	---

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

Note: P: Pass F: Fail

Table of Performance Level for Glove

Test Item	Performance Level					
	0 ^{##}	1	2	3	4	5
Abrasion Resistance (EN 388:2003 §6.1) Number of cycles (minimum)	< 100	100	500	2000	8000	---
Blade Cut Resistance (EN 388:2003 §6.2) Index (I) (minimum)	< 1.2	1.2	2.5	5.0	10.0	20.0
Tear Resistance (EN 388:2003 §6.3) Force (N) (minimum)	< 10	10	25	50	75	---
Puncture Resistance (EN 388:2003 §6.4) Force (N) (minimum)	< 20	20	60	100	150	---
Dexterity (EN 420:2003 §6.2+A1:2009) 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.

4.3 Azo dyes

TEST METHOD	Test Items (S02)	Client Requirement	P/F	
				1

TEST METHOD	Test Items (S03)	Client Requirement	P/F	
				2

TEST METHOD	Test Items (S04)	Client Requirement	P/F	
				3

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 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.

4.4 pH value

According to EN ISO 3071:2006

TEST METHOD	Test Items			Client's Requirement	P/F
	(S02)	(S03)	(S04)		
pH value Average value(nearest to 0.1)	7.5	9.5	8.6	>3.5 & <9.5	PFP

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.

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.



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

TEST REPORT

Report No.: SH60529-14



TESTING
 CNAS L4577

April 2, 2014
 Page 6/6

APPLICANT:
VICSA SAFETY COMERCIAL LIMITADA

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.