

**CTC Shanghai** 

5F Annex Dragon Pearl Plaza

2123 Pudong Avenue

Shanghai 200135, P.R. CHINA ctcshanghai@ctcgroupe.com

# TEST REPORT



**TESTING CNAS L4577** 

November 24, 2014

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Report No.: SH62442R2-14

(This test report supersedes the report SH62442R1-14 issued on November 12, 2014)

**APPLICANT:** 

Vicsa Steelpro Colombia S.A.S.

MARIA PAZ

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**Product Category:** Test(s) requested: --**Product Type:** 

Sample description: Multiflex Nylon Nitrilo Foam Black

301000790614 301000790615 Style / Article no.: **COLOMBIA Buyer:** 

301000790616

Ref no.: Multiflex Nylon Nitrilo Foam Black **Exported to: COLOMBIA** 

Date of receipt of

application form: October 24, 2014 Date of receipt of sample: October 24, 2014 **Testing period:** October 24, 2014--

October 31, 2014

Number of sample(s) SEVERAL PAIRS OF SAMPLES Service required: **REGULAR** 

#### 1. Conclusion:

Order no.: End use:

Testing	Result	Combine / Separate Test Item(s)	Failed Test Item(s)	
Dexterity of glove	Level 5	(S01)		■This test is not covered
Sizing of glove	7, 8, 9, 10	(S01)(S05)(S06)(S07) (S08)(S09)(S10)(S11)		by CNAS accreditation.
Abrasion resistance of glove	Level 4	(S02)		
Blade cut resistance of glove	Level 1	(S02)		
Tear resistance of glove	Level 2	(S02)		
Puncture resistance of glove	Level 1	(S02)		
Azo dyes	PPP	(S02)(S03)(S04)		
pH value	PPP	(S02)(S03)(S04)		
Dimethyl Fumarate Content	Р	(S02)		
Tin detection	Р	(S02)		
Cadmium detection	Р	(S02)		Note: P: Pass F: Fail

<u>Comments:</u>
For the submitted samples, the Dexterity got level 5; the expect size of gloves 7, 8, 9, 10 passed the requirement and the pH value tests passed the requirement according to EN420 standard.

The Abrasion resistance of glove got level 4; Blade cut resistance of glove got level 1; the Tear resistance of glove got level 2; 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

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### <u>APPLICANT:</u> Vicsa Steelpro Colombia S.A.S.

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

<b>Sample(s)</b> (01)	Size 	Style / Árticle no.: 301000790614 301000790615 301000790616	Sub-sample(s) (a)	Component(s) Glove	Colour Black/Yellow
			(b)	Palm	Black
			(c)	Back	Black
			(d)	Cuff	Black
(02)		301000790614 301000790615 301000790616	(a)	Glove	Black/Yellow
(03)		301000790614 301000790615 301000790616	(a)	Glove	Black/Green
(04)		301000790614 301000790615 301000790616	(a)	Glove	Black/Green
(05)		301000790614 301000790615 301000790616	(a)	Glove	Black/Blue
(06)		301000790614 301000790615 301000790616	(a)	Glove	Black/Blue
(07)		301000790614 301000790615 301000790616	(a)	Glove	Black/Brown
(08)		301000790614 301000790615 301000790616	(a)	Glove	Black/Brown

### 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)	(80)	(a)



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**APPLICANT:** 

Vicsa Steelpro Colombia S.A.S.

# 4. Testing result:

#### 4.1 EN 420

-	1 211 420			
TEST METHOD		Test item(s) (S01)	Requirement	P/F
1	Dexterity of glove * (EN 420:2003 §6.2+A1:2009)			
	Highest value of four tests:	5.0		
	Performance Level :	5		

Note: P: Pass F: Fail

TEST METHOD		Test i	Requirement	P/F	
2	Sizing of glove* (EN 420:2003 §6.1+A1:2009)	Total length (mm)	Glove Size		
	S01 S05	236 236	7	7	Р

Note: P: Pass F: Fail

TEST METHOD		Test i	Requirement	P/F	
3	Sizing of glove* (EN 420:2003 §6.1+A1:2009)	Total length (mm)	Glove Size		
	S06 S07	241 244	8	8	Р

Note: P: Pass F: Fail

TEST METHOD		Test i	Requirement	P/F	
4	Sizing of glove* (EN 420:2003 §6.1+A1:2009)	Total length (mm)	Glove Size		
	S08 S09	254 252	9	9	Р

Note: P: Pass F: Fail

TEST METHOD		Test it	Requirement	P/F	
5	Sizing of glove* (EN 420:2003 §6.1+A1:2009)	Total length (mm)	Glove Size		
	S10	264	10	10	Р
	S11	266			

Note: P: Pass F: Fail

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<sup>\*</sup>Remark: Only two samples were measured for each sizing.





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Note:

P: Pass F: Fail

### <u>APPLICANT:</u> Vicsa Steelpro Colombia S.A.S.

#### 4.2 EN 388

4.2	EN 388				
	TEST METHOD		item(s)	Requirement	P/F
		(8	802)	11044	
1	Blade cut resistance of glove # (EN 388:2003 §6.2)	Ind	ex (I)		
	Sequence	Test 1	Test 2		
	1	1.6	1.6		
	2	1.8	1.7		
	3	1.7	1.7		
	4	1.8	1.7		
	5	1.7	1.7		
	Average (I):	1.7	1.7		
	Lowest average value ( I ):	•	1.7		
	Performance Level :		1		
2	Tear resistance of glove #				
	(EN 388:2003 §6.3)				
	Lowest value of four tests (N):	;	31		
	Performance Level :		2		
	Puncture resistance of glove #				
3	(EN 388:2003 §6.4)				
	Lowest value of four tests (N):		30		
	Performance Level :		1		
4	Abrasion resistance of glove #				
	(EN 388:2003 §6.1)				
	Lowest value of four tests :	>8	3000		
	Performance Level :		4		

<sup>#</sup> Refer to the below page for details of the performance level of glove.

Table of Performance Level for Glove

i able of	Table of Performance Level for Glove								
Test Item	Performance Level								
	0 ##	1	2	3	4 8000 10.0 75 150	5			
Abrasion Resistance (EN 388:2003 §6.1)	< 100	100	500	2000	8000				
Number of cycles (minimum)	< 100	100	300	2000	0000				
Blade Cut Resistance (EN 388:2003 §6.2)	< 1.2	1.2	2.5	5.0	10.0	20.0			
Index (I) (minimum)	< 1.2	1.2	2.5	5.0	10.0	20.0			
Tear Resistance (EN 388:2003 §6.3)	< 10	10	25	50	75				
Force (N) (minimum)	\ \ 10	10	23	30	7.5				
Puncture Resistance (EN 388:2003 §6.4)	< 20	20	60	100	150				
Force (N) (minimum)	< 20	20	00	100	150				
Dexterity (EN 420:2003 §6.2+A1:2009)		11.0	9.5	8.0	6.5	5.0			
Diameter of pin (in mm)		11.0	9.5	0.0	0.5	5.0			

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

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# 4.3 Azo dves

### **APPLICANT:** Vicsa Steelpro Colombia S.A.S.

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

TEST METHOD	Test Items (S03)	Client Requirement	P/F
2   Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	Р

TEST METHOD	Test Items (S04)	Client Requirement	P/F
3 Azo dyes* (mg/kg) (EN 14362-1:2012)	<5	≤30	Р

Note:

O-Anisidine

2,4 Xylidine

2,6 Xylidine

4-Aminoazobenzene

\*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 4-Aminobiphenyle 4-Chloro-O-Toluidine 2-Naphthylamine

O-Aminoázotoluene 5-Nitro-O-Toluidine

4-Chloroaniline 4-Methoxy-M-Phenylenediamine 4,4'-Diaminodiphenylmethane

3,3'-Dichlorobenzidine

3,3'-Dimethoxybenzidine 3,3'-Dimethylbenzidine

4,4'-Methylenedi-o-Toluidine

P-Cresidine

4,4'-Methylene-BIS-(2-Chloroaniline)

4,4'-Oxydianiline 4,4'-Thiodianiline O-Toluidine

2,4,5-Trimethylaniline

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	P/F
TEST METHOD	(S02)	(S03)	(S04)	Requirement	F/F
pH value Average value(nearest to 0.1)	7.0	7.0	7.0	>3.5 & <9.5	PPP

P: Pass F: Fail Note:

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### <u>APPLICANT:</u> Vicsa Steelpro Colombia S.A.S.

4.5 Dimethyl Fumarate Content:

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

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

Note: P: Pass F: Fail

#### 4.7 Cadmium Detection:

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

Note: P: Pass F: Fail

### - End of report -