1682



## **TEST REPORT**



CNAS L4577 April 26, 2011 Page 1/5

1	Product Catego	ry:	Product Typ	e:
HPPE yarn mix	ed glass fiber ya	rn with foam nitrile coating glov	ves	
11CUT-N15		Buyer:		
		Exported to:		
		Date of receipt of		
		application form:	March	n 30, 2011pm
		Date of receipt of		
		sample:	March	n 30, 2011pm
		Testing period:	March	n 30, 2011pm
				25, 2011
SEVERAL PA	AIRS OF SAME	PLES Service required:	REGU	JLAR
	Result	Combine / Separate Test Item(s)	Failed Test Item(s)	
	Level 5	(S01)		and the second s
	9, 9, 10	(\$01) (\$06) (\$07)		This test is not covered
ve			24(10)	by CNAS accreditation.
	8			
of glove			2770	
	РРРР	the second se		
	PPPP	(S02) (S03) (S04) (S05)		
Content	Р	(\$02)		
	HPPE yarn mix 11CUT-N15  	HPPE yarn mixed glass fiber ya 11CUT-N15   SEVERAL PAIRS OF SAMF Result Level 5 9, 9, 10 Level 4 Level 4 Level 3	HPPE yarn mixed glass fiber yarn with foam nitrile coating glow         11CUT-N15         Buyer:            Exported to:         Date of receipt of         application form:         Date of receipt of         application form:         Date of receipt of         sample:            Testing period:         SEVERAL PAIRS OF SAMPLES         Service required:         Combine / Separate         Test Item(s)         Level 5         Level 5         (S01)         yee         Level 4         (S01)         yee         Level 4         (S01)         yee         Level 4         (S01)         of glove         Level 3         (S01)         of glove         Level 5         (S01)   <	HPPE yarn mixed glass fiber yarn with foam nitrile coating gloves         11CUT-N15       Buyer:          Exported to:          Date of receipt of application form: March          Date of receipt of sample: March          Date of receipt of sample: March          Testing period: March          Service required: REGU         Ve       Result Combine / Separate Test Item(s)         Level 5       (S01)          9, 9, 10         ve       Level 4         Level 4       (S01)          f glove         Level 3       (S01)          of glove         Level 5       (S01)

For the submitted sample, the Dexterity got level 5; the Sizing of glove were 9, 9, 10, the pH value test passed the requirements according to EN420 standards.

The Abrasion resistance of glove got level 4; the Blade cut resistance of glove got level 5; the Tear resistance of glove got level 4; the Puncture resistance of glove got level 3 according to EN388 standard. All the other tests passed the requirements.

requirements.

Approved by

**Original Signed** 

Henry YAN

Lab Supervisor

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

<b>Sample(s)</b> (01)	Size	Style / Article no.: 11CUT-N15	Sub-sample(s) (a)	Component(s) Glove	<b>Colour</b> Black/Grey
			(b)	Palm	Black
			(c)	Back	Grey
			(d)	Cuff	Grey
			(e)	Binding	Brown
(02)	3 <del>414</del> 0	11CUT-N15	(a)	Glove	Black/Grey
(03)		11CUT-N15	(a)	Glove	Black/Grey

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

Test item	Sample(s)	Combine / Separate sub-sample(s)	
(S01)	(01)	(a)	-
(\$02)	(01)	(b)	
(S03)	(01)	(c)	CALLER A
(S04)	(01)	(d)	
(S05)	(01)	(e)	And the second second
(S06)	(02)	(a)	Constant of
(S07)	(03)	(a)	
		and the second se	of a sea of the second s

#### 4. Testing result: 4.1 EN 420

TEST METHOD	Test item(s) (S01)	Requirement	P/F
Dexterity of glove (EN 420:2003 §6.2)			
Highest value of four tests :	5.0		
Performance Level :	5		1222

Note: P: Pass F: Fail

TEST METHOD		Test item(s)						Requirement	P/F
	TEST METHOD	(\$0	)1)	(SC	)6)	(S0	7)		
2	Sizing of glove	Total	Size	Total	Size	Total	Size		
	(EN 420:2003 §6.1)	length		length		length			
		(mm)		(mm)		(mm)			
	Test 1	250	9	255	9	260	10	-	000
	Test 2	251	9	255	9	260	10		444
	Test 3	250	9	255	9	260	10	344	
	Test 4	250	9	255	9	260	10		

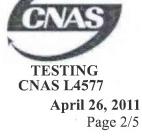
Note: P. Pass F: Fail

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## **TEST REPORT**

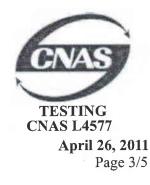


CEN 11CUT-N. 60396-11	1			
60396-11		VIII		
	1000 C	A	60396-1	

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## **TEST REPORT**



#### 4.2 EN 388

	TEST METHOD		tem(s) 01)	Requirement	P/F
1	Blade cut resistance of glove (NF EN 388:2004 §6.2)	Inde	ex (I)		
	Sequence	Test 1	Test 2		
	1	38.2	45.4		
	2	39.8	42.2		
	3	38.6	40.6		
	Average (I):	38.9	42.8		
	Lowest average value (I):	3	8.9		
	Performance Level :		5		
2	Tear resistance of glove #		- AN, 5 -		
	(NF EN 388:2004 §6.3)				
	Lowest value of four tests (N):		1.1		No.
	Performance Level :		4	1.0010 (	
	Puncture resistance of glove #				
3	(NF EN 388:2004 §6.4)				
	Lowest value of four tests (N):	12	27.9		
	Performance Level :		3		
	Abrasion resistance of glove #				
4	(NF EN 388:2004 §6.1)				
	Lowest value of four tests :	>8	3000		
	Performance Level :		4	Defense a	(200)

Table of Performance Level for Glove

Performance Level					
0 ##	1	2	3	4	5
< 100	100	500	2000	8000	
< 1.2	1.2	2.5	5.0	10.0	20.0
< 10	10	25	50	75	
< 20	20	60	100	150	-
	11.0	9.5	8.0	6.5	5.0
	0       < 100	$ \begin{array}{c cccc}  & & & & & & \\ \hline & & < 100 & & & \\ \hline & < 1.2 & & & \\ \hline & < 10 & & & \\ \hline & & < 20 & & & \\ \hline & & & & \\ \hline \end{array} $	$0^{\#\#}$ 1         2           <100	$0^{\#\#}$ 1         2         3           <100	$0^{##}$ 1         2         3         4           <100

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

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#### 4.3 Azo dyes

#### Test Items Client P/F **TEST METHOD** Requirement (S02) Azo dyes\* (mg/kg) (EN 14362-1:2004) 1 P < 10.0 $\leq 30$ Test Items Client **TEST METHOD** P/F Requirement (S03) Azo dyes\* (mg/kg) 2 <10.0 <30 р (EN 14362-1:2004) Test Items Client P/F **TEST METHOD** Requirement (S04)Azo dyes\* (mg/kg) 3 <30< 10.0P (EN 14362-1:2004) Azo dyes\* (mg/kg) 4 <30 < 10.0P (EN 14362-2:2004) Client Test Items **TEST METHOD** P/F Requirement (S05)Azo dyes\* (mg/kg) 5 <30 <10.0 P (EN 14362-2:2004)

**TEST REPORT** 

P: Pass F: Fail Note:

\*Test method according to EN14362-1:2003, EN14362-2:2003 or CEN ISO/TS17234:2010 or \$64 LFGB B 82.02-9:2006. 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)

Petection limit: Sing/kg) Benzidine 4-Aminodiphenyl 4-Chloro-O-Toluidine 2-Naphthylamine O-Aminoazotoluene 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

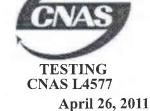
O-Anisidine 4-Aminoazobenzene

#### Interpretation of test results:

- 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.</li>
  (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 polyester blend sample, two test methods (EN 14362-1:2003 and EN 14362-2:2003) are performed on the sample, result of either one test method or both test methods shown any forbidden amines with content greater than 30 mg/kg will be considered as detected.
  (5) For determination of 4-Aminoazobenzene, §64 LFGB B 82.02-9:2006 will be performed on the sample.

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#### 4.4 pH value According to EN1413: 1998

TEST METHOD		Test It			D	D/E
	(\$02)	(S03)	(S04)	(S05)	Requirement	P/F
pH value Average value(nearest to 0.1)	6.3	5.5	5.4	6.5	>3.5 & <9.5	PPPP

**TEST REPORT** 

### 4.5 Dimethyl Fumarate Content:

TEST METHOD	Test Items (S02)	Requirement	P/F
Dimethyl Fumarate Content			
(CAS: 624-49-7) Method used: extracted with organic solvent, GCMS analysis			
Detection Limit: =0.1mg/kg	<0.1	< 0.1	Р
		Note: P: P	ass F: Fail

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Remark:

Laboratory Reporting Limit = 0.1 mg/kg Mg/kg = milligram per kilogram ND = Not detected

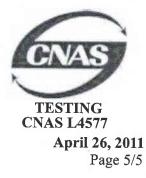
Method: Sample was extracted with organic solvent and analyzed by Gas Chromatograph Mass Spectrometer.

#### 4.6 Tin Detection:

the Am Dettection:	the state of the second se	Contraction and S	2. You She Distant
TEST METHOD	Test Items		and the second se
IESI METHOD	(\$02)	Requirement	P/F
Tin XRF Screening (With reference to IEC 62321 (Ed.1) Chapter 6) Detection limit: 350 (mg/kg or ppm)	<350	<350	P
		Note: P. I	Pays F- Fail

- End of report -

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Note: P: Pass F: Fail