



Room 1801-2, TOWER B, REGENT CENTRE,  
63 WO YI HOP ROAD, KWAI CHUNG,  
NEW TERRITORIES, HONG KONG  
TEL: (852) 2429 7022 FAX: (852) 2429 7266  
ctcasia@ctcgroupe.com

## TEST REPORT

Report No.: 07609-09



December 24, 2009

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**APPLICANT:**  
Espomega S.A.DE C.V

Mr. David Shapiro  
DEPT: HEAD OFFICE  
Pablo A Gonzalez Garza 820 Pte Col Chepevera  
Monterrey N.L Mexico 64030

Test(s) requested : EN 388 TESTS      Product Category : --      Product Type : --

Sample description: 51-670 DERMA CUT PLUS, 13 gauge knitted glove with 3/4 nitrile coated, Blend with engineer Yarn for cut protection, Salt and pepper style.

Style / Article no.	: 51-670 DERMA CUT PLUS	Buyer	: --
Ref no.	: --	Exported to	: --
Order no.	: --	Date of receipt of application form	: Dec 10, 2009
		Date of receipt of sample	: Dec 10, 2009
Supplier	: --	Testing period	: December 10, 2009 – December 24, 2009
Number of sample(s)	: 8 PAIRS OF GLOVES	Service required	: REGULAR

### 1. Conclusion:

Testing	Result	Combine / Separate Test Item(s)	Failed Test Item(s)
Abrasion resistance of glove	Level 4	(S01)	---
Blade cut resistance of glove	Level 4	(S02)	---
Tear resistance of glove	Level 4	(S01)	---
Puncture resistance of glove	Level 4	(S01)	---

The abrasion, blade cut, tear and puncture resistances all got level 1 according to EN 388 standard.

Approved by

Original signed

\_\_\_\_\_  
John Cheung Fai Cheong  
Assistant Laboratory Supervisor

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

Sample(s)	ID	Size	Style/Art. No.	Sub-sample(s)	Component(s)	Colour
(01)	i	--	51-670 DERMA CUT PLUS	(a)	Glove	Black/White
(01)	ii	--	51-670 DERMA CUT PLUS	(a)	Glove	Black/White
(01)	iii	--	51-670 DERMA CUT PLUS	(a)	Glove	Black/White
(01)	iv	--	51-670 DERMA CUT PLUS	(a)	Glove	Black/White
(01)	v	--	51-670 DERMA CUT PLUS	(a)	Glove	Black/White
(01)	vi	--	51-670 DERMA CUT PLUS	(a)	Glove	Black/White
(01)	vii	--	51-670 DERMA CUT PLUS	(a)	Glove	Black/White
(01)	viii	--	51-670 DERMA CUT PLUS	(a)	Glove	Black/White

Remarks: (1) ID is used for identification in which the numbers of sample received are of the same article, ref. no., colour, etc.

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

Test item	Sample(s)	Combine / Separate sub-sample(s)
(S01)	(01)-i+ii	(a)
(S02)	(01)-iii	(a)





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#### 4. Test Results :

TEST METHOD		Test item(s) (S01)	Requirement	P/F
1	<b>Abrasion resistance of glove #</b> (NF EN 388:2004 §6.1) Lowest value of four tests : Performance Level :	>8,000 4	--- ---	--- ---
2	<b>Tear resistance of glove #</b> (NF EN 388:2004 §6.3) Lowest value of four tests (N): Performance Level :	>200 4	--- ---	--- ---
3	<b>Puncture resistance of glove #</b> (NF EN 388:2004 §6.4) Lowest value of four tests (N): Performance Level :	229 4	--- ---	--- ---

TEST METHOD		Test item(s) (S02)		Requirement	P/F
		Index (I)			
		Test 1	Test 2		
4	<b>Blade cut resistance of glove #</b> (NF EN 388:2004 §6.2) Sequence				
	1	19.3	9.6	---	
	2	19.6	22.2	---	
	3	19.7	7.2	---	
	4	---	---	---	
	5	---	---	---	
	Average (I):	19.5	13.0	---	
	Lowest average value ( I ) :	13.0		---	---
	Performance Level :	4		---	---

# Table of Performance Level for Glove

Test Item	Performance Level					
	0 <sup>##</sup>	1	2	3	4	5
<b>Abrasion Resistance (NF EN 388:2004 §6.1)</b> Number of cycles (minimum)	< 100	100	500	2000	8000	---
<b>Blade Cut Resistance (NF EN 388:2004 §6.2)</b> Index (I) (minimum)	< 1.2	1.2	2.5	5.0	10.0	20.0
<b>Tear Resistance (NF EN 388:2004 §6.3)</b> Force (N) (minimum)	< 10	10	25	50	75	---
<b>Puncture Resistance (NF EN 388:2004 §6.4)</b> Force (N) (minimum)	< 20	20	60	100	150	---

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

**- End of report -**

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