



COMPASS INTERNATIONAL CORPORATION LIMITED

Beijing factory office: Building 2A, No. 17 Huanke Middle Road, Jingqiao Science Industrial Park, Tongzhou District, Beijing, 101102, China

Http://www.compassint.cn E-mail: info@compassint.cn

Specification for Cut resistant Gloves



- Main Material:** UHMWPE long fiber

Fiber Specification	Density (g/cm ³)	Tenacity (g/D)	Modulus (g/D)	Elongation (%)
600D	0.97	38±2	1300	3.0

Performance: Cut resistant, abrasion resistant, acid and alkali resistant, microwave resistant, electrostatic resistant, etc.

Attention: UHMWPE fiber is sensitive to high temperature over 140°C.
- Properties:**

Cut resistant: UHMWPE long fiber is up to five times stronger than steel on an equal weight basis. As a result, the glove can resist knife cut and is lightweight.

Heat and Flame resistant: The glove can withstand extreme heat and is inherently flame resistant.

High Durability: The glove can last eight times longer than cotton gloves and two times longer than leather gloves.

Chemical Resistant: The glove can be cleaned in acid or alkaline liquid without any damage.
- Product Types:** Knitted with UHMWPE long fiber and stainless-steel thread, and its surface is optional to be coated with PVC, or leather.
- Application:** Fire fighters, public security staffs, armed forces, economic security staffs, police officers. Also useful in the following industries: petrochemical, smelting and mining, glass processing, metal manufacturing, garbage collection, etc.
- Test & Standard**

Tested by Quality Test Center of Security and Police Electronic Products, the Ministry of Public Security;

According to the European Norm EN388 in Netherlands.
- Cut Resistant Level**

Level 5 according to EN388, the highest level of cut resistant in the world.

Item Model	Size	Level
CRG-1	S / M / L / XL / XXL	EN388 3
CRG-2	S / M / L / XL / XXL	EN388 4
CRG-3	S / M / L / XL / XXL	EN388 5
	7 / 8 / 9 / 10 / 11	



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TEST REPORT

Report No.: 02690-09



May 7, 2009

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CompassArmor®

Test(s) EN 388 TESTS Product Category : -- Product Type : --
 requested :
 Sample description: WHITE POLYETHENE NYLON GREY PU PALM COATION GLOVE
 Style / Article no. : DC6-1 Buyer : --
 Ref no. : -- Exported to : --
 Order no. : -- Date of receipt of application form : Apr 30, 2009
 Date of receipt of sample : Apr 30, 2009
 Supplier : -- Testing period : April 30, 2009 – May 7, 2009
 Number of sample(s) : 6 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 3	(S02)	---
Tear resistance of glove	Level 4	(S01)	---
Puncture resistance of glove	Level 1	(S01)	---

The abrasion and tear resistance both got level 4; the blade cut resistance got level 3 and the puncture resistance got level 1 according to EN 388 standard.

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

Sample(s)	ID	Size	Style/Art. No.	Sub-sample(s)	Component(s)	Colour
(01)	i	--	DC6-1	(a)	Glove	Grey/Black/Yellow
(01)	ii	--	DC6-1	(a)	Glove	Grey/Black/Yellow
(01)	iii	--	DC6-1	(a)	Glove	Grey/Black/Yellow
(01)	iv	--	DC6-1	(a)	Glove	Grey/Black/Yellow
(01)	v	--	DC6-1	(a)	Glove	Grey/Black/Yellow
(01)	vi	--	DC6-1	(a)	Glove	Grey/Black/Yellow

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)	Requirement	P/F
		(S01)		
1	Abrasion resistance of glove # (NF EN 388:2004 §6.1) Lowest value of four tests : Performance Level :	>8,000 4	---	---
2	Tear resistance of glove # (NF EN 388:2004 §6.3) Lowest value of four tests (N): Performance Level :	>200 4	---	---
3	Puncture resistance of glove # (NF EN 388:2004 §6.4) Lowest value of four tests (N): Performance Level :	39 1	---	---

TEST METHOD		Test item(s)		Requirement	P/F
		(S02)			
		Index (I)			
		Test 1	Test 2		
4	Blade cut resistance of glove # (NF EN 388:2004 §6.2) Sequence				
	1	5.5	6.9	---	
	2	5.5	3.9	---	
	3	7.0	4.3	---	
	4	5.7	4.6	---	
	5	4.7	5.5	---	
	Average (I):	5.7	5.0	---	
	Lowest average value (I) :	5.0		---	---
	Performance Level :	3		---	---



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TEST REPORT

Report No.: 02691-09



May 7, 2009

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CompassArmor®

Test(s) EN 388 TESTS Product Category : -- Product Type : --
 requested :
 Sample description: WHITE POLYETHENE NYLON GREY PU PALM COATION GLOVE
 Style / Article no. : DC6-2 Buyer : --
 Ref no. : -- Exported to : --
 Order no. : -- Date of receipt of application form : Apr 30, 2009
 Date of receipt of sample : Apr 30, 2009
 Supplier : -- Testing period : April 30, 2009 – May 7, 2009
 Number of sample(s) : 6 PAIRS OF GLOVES Service required : REGULAR

1. Conclusion:

Testing	Result	Combine / Separate Test Item(s)	Failed Test Item(s)
Abrasion resistance of glove	Level 3	(S01)	---
Blade cut resistance of glove	Level 5	(S02)	---
Tear resistance of glove	Level 4	(S01)	---
Puncture resistance of glove	Level 3	(S01)	---

The abrasion and puncture resistance both got level 3; the blade cut resistance got level 5 and the tear resistance got level 4 according to EN 388 standard.



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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	--	DC6-2	(a)	Glove	Grey/Black/Brown
(01)	ii	--	DC6-2	(a)	Glove	Grey/Black/Brown
(01)	iii	--	DC6-2	(a)	Glove	Grey/Black/Brown
(01)	iv	--	DC6-2	(a)	Glove	Grey/Black/Brown
(01)	v	--	DC6-2	(a)	Glove	Grey/Black/Brown
(01)	vi	--	DC6-2	(a)	Glove	Grey/Black/Brown

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)



4. Test Results :

TEST METHOD		Test item(s)	Requirement	P/F
		(S01)		
1	Abrasion resistance of glove # (NF EN 388:2004 §6.1) Lowest value of four tests : Performance Level :	4,560 3	--- ---	---
2	Tear resistance of glove # (NF EN 388:2004 §6.3) Lowest value of four tests (N): Performance Level :	>200 4	--- ---	---
3	Puncture resistance of glove # (NF EN 388:2004 §6.4) Lowest value of four tests (N): Performance Level :	103 3	--- ---	---

TEST METHOD		Test item(s)	Requirement	P/F	
		(S02)			
4	Blade cut resistance of glove # (NF EN 388:2004 §6.2) Sequence	Index (I)		---	
		Test 1	Test 2		
		1	35.1		32.8
		2	32.8		35.2
		3	29.8		31.6
		4	---		---
		5	---		---
Average (I):		32.6	33.2	---	
Lowest average value (I) :		32.6	---	---	
Performance Level :		5	---	---	

Table of Performance Level for Glove

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

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

- End of report -

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