



TEST REPORT

EN 388:2016

Protective gloves against mechanical risks

MEASUREMENT AND TEST REPORT

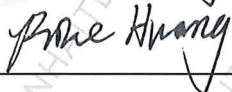
For

Shaoxing Jinchuan Knitting Co., LTD

Nan 'ao, Nanyuan Village, Fenghui Town, Shangyu District, Shaoxing City, Zhejiang Province (Inside
Shangyu Youbang Glove Factory, Shaoxing City)

Model: FG150

2022-08-23

This Report Concerns: ☒ Original Report	Equipment Type: Cut-proof gloves
Test By:	Eric Tao/ 
Report Number:	TH2208230-C01-R01
Test Date:	2022-08-15 to 2022-08-23
Reviewed By:	Prince Huang/ 
Approved By:	Prince Huang/ 
Prepared By:	Shenzhen Tian Hai Test Technology Co.,Ltd. 4F, A3 BLDG, The Silicon Valley Power intelligent terminal industrial park, Guanlan street, Longhua district, Shenzhen Tel: +86-755-86615100 Fax: +86-755-86615105

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen Tian Hai Test Technology Co.,Ltd.



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EN388:2016

Protective gloves against mechanical risks

Report

Report reference No. : TH2208230-C01-R01

Tested by (signature) : Eric Tao

Reviewed By: (signature) : Prince Huang

Approved by (signature) : Prince Huang

Date of issue : 2022-08-23



Testing laboratory

Name : Shenzhen Tian Hai Test Technology Co., Ltd.

Address : 4F, A3 BLDG, The Silicon Valley Power intelligent terminal industrial park, Guanlan street, Longhua district, Shenzhen

Test location : Same as above

Client

Name : Shaoxing Jinchuan Knitting Co., LTD

Address : Nan 'ao, Nanyuan Village, Fenghui Town, Shangyu District, Shaoxing City, Zhejiang Province (Inside Shangyu Youbang Glove Factory, Shaoxing City)

Test specification

Standard : EN 388:2016

Non-standard test method : N.A.

Test item

Description : Cut-proof gloves

Trademark : /

Model No : FG150

Manufacturer : Shaoxing Jinchuan Knitting Co., LTD

Address : Nan 'ao, Nanyuan Village, Fenghui Town, Shangyu District, Shaoxing City, Zhejiang Province (Inside Shangyu Youbang Glove Factory, Shaoxing City)



Test case verdict

Test case does not apply to the test object.....:	N
Test object does meet the requirement.....:	P(ass)
Test item does not meet the requirement.....:	F(ail)

“(see remark #)” refers to a remark appended to the report.

“(see appended table)” refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced except in full without the written approval of the testing Laboratory.

Note:

Attached with: Photographs of the EUT



EN388:2016			
Clause	Requirement – Test	Result - Remark	Verdict
4	Requirements		P
4.1	General		P
	The protective gloves according to this standard shall meet all the applicable requirements of EN 420.	Comply with the requirement	P
	A protective glove against mechanical risks shall have a performance level of 1 or above for at least one of the properties (abrasion, blade cut, tear and puncture) classified according to the minimum requirements for each level shown in table 1.	See below	P
4.2	Additional Protection		P
4.2.1	General	Comply with the requirement	P
	Additional protection can be claimed when the gloves conform to the requirements defined in the following clause(s).		P
4.2.2	Impact protection		P
	Each area where impact protection is claimed shall be tested. Due to the test method (test specimens dimensions), protection against impacts on fingers cannot be tested.	Comply with the requirement	P
	A protective glove against mechanical risks may be designed and constructed to provide specific impact attenuation (for example, impact protection of knuckles, back of the hand, palm,). These gloves shall comply with the following requirement.	Comply with the requirement	P
5	Sampling and conditioning		P
5.1	Conditioning of samples is as follows:		P
	Temperature (23 ± 2) °C; Relative Humidity (50 ± 5) %.	25 °C 52 %	P
	The period of conditioning is at least 24 h. Tests shall preferably be performed in the above mentioned environment.		P
5.2	If the test is performed in a different environment, it shall be started within 5 min after removal from the conditioning.		P
5.3	If special applications require testing in a different environment, it is the responsibility of the manufacturer or his authorized representative to arrange for additional tests and to present the results including a full description of the testing environment in the information supplied by the manufacturer (clause 8).		P
6	Test methods		P
6.1	Abrasion resistance		P
	Circular specimens of material are abraded under known pressure with a cyclic planar motion in the form of a Lissajous figure which is the result of the simple harmonic motions at right angles to each other. The resistance to abrasion is measured by the number of rubs required for	Comply with the requirement	P



EN388:2016			
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	breakthrough to occur.		
6.2	Blade cut resistance		P
	Specimens are cut by a counter-rotating circular blade which moves with an alternating motion under a specified load.	Comply with the requirement	P
6.3	Cut Resistance method (EN ISO 13997)		P
	This test method is described in EN ISO 13997:1999. Table 2 shows the correspondence between the performance level (A to F) and the equivalent cutting load of EN ISO 13997:1999. Test specimens shall be taken from the gloves palm.	Comply with the requirement	P
6.4	Tear resistance		P
	The resistance to tear is defined as the force necessary to propagate a tear in a rectangular specimen slit half way along its length.	Comply with the requirement	P
6.5	Puncture resistance		P
	Puncture resistance is defined by the force exerted by a steel stylus of defined dimensions to puncture a test specimen held on a retaining device. It should not be confused with piercing exerted by thin tips or needles.	Comply with the requirement	P
6.6	Impact Test		P
	For knuckles, the tests are carried out according to EN 13594:2015, 6.9 with impact energy of 5 J. For other parts (back of the hand, palm, etc.), the centre of the claimed protection area shall be tested according to EN 13594:2015, 6.9 with impact energy of 5 J. Four impacts in the centre of the protective area from four different gloves shall be tested. The results are given as requested in EN 13594:2015, 6.9 h).	Comply with the requirement	P
7	Marking		P
7.1	General		P
	Marking of the protective glove shall be in accordance with the applicable clause of EN 420.	Comply with the requirement	P
7.2	Pictograms		P
	The mechanical properties of the glove shall be shown by the pictogram for the mechanical risks followed by four performance levels numbers.	See the label	P
	The first number corresponds to the abrasion resistance, the second one to the blade cut resistance, the third one to the tear resistance and the fourth one to the puncture resistance (as shown in table 1	See the label	P
	The positioning of the pictogram and performance levels in relation to each other shall be in accordance to EN 420.	See the label	P
7.3	Marking of additional requirements		P
	Impact protection When the requirements given in 4.2.1 are fulfilled by the gloves, the marking code “P” is added after the five performance levels number (see example in Figure 11).	See the label	P
8	Information supplied by the manufacturer in the	See the instructions	P



EN388:2016			
Clause	Requirement – Test	Result - Remark	Verdict
	user notice		



Sample Photos



*****END OF THE REPORT*****