

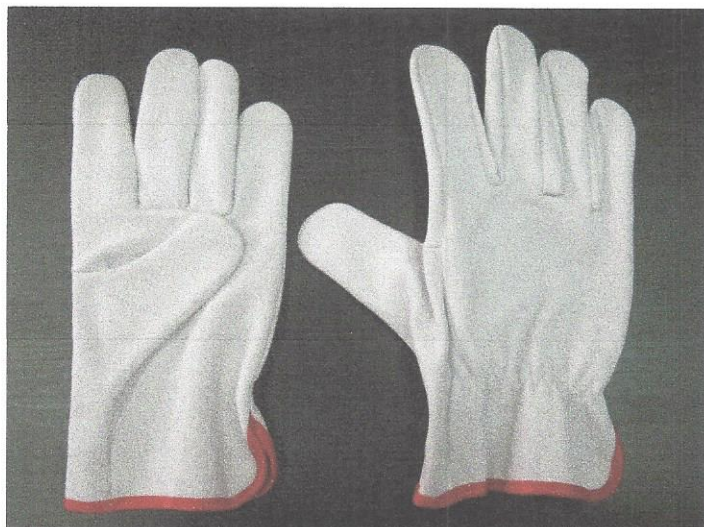
## Evaluation report No.: IC1988781-2

**Holder/ Manufacturer:** PATACHO,S.L.  
 PL-IND. DE TEIXEIRO, CALLE ARANGA, PARCELA D-40-41 , 15310 TEIXEIRO, CURTIS, LA CORUÑA, SPAIN

**Internal number / Certified by:** 937/EXC88

**Country of origin:** Pakistan

**Type:** GU-242



**Sample description:**

Gloves are made of cow grain leather (grey colour) with five separate fingers. Back of the hand has built in elastic for comfort. Cuff is made of leather with tape binding of different color depending on size of gloves.

(SIZE 6 - Orange; SIZE 7 - Green; SIZE 8 - Blue; SIZE 9 - Yellow; SIZE 10 - Red; SIZE 11 - Black)

**Type PPE:**



Personal protective equipment (PPE) category II  
 Protective gloves against mechanical risks



**Requirement:**

- harmonized standard **HRN EN 388:2016 (EN 388:2016)**
- applicable essential health and safety requirements according to REGULATION (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protection equipment and repealing Council Directive 89/686/EEC

Requirement:		Result/Document/Remark	Fulfilling of the requirement / = not requirement + = fulfills - = doesn't fulfill																																												
4.	Requirements																																														
4.1	General																																														
	<p>The protective gloves according to this standard shall first meet all the applicable requirements of EN 420.</p> <p>All specimens shall be taken from the palm of different gloves for classification purposes. For arm protectors, specimens shall be taken from the area for which protection is claimed.</p> <p>A protective glove against mechanical risks shall have performance level of 1 or above for at least one of the properties (abrasion, blade cut, tear and puncture) or at least level A of the EN ISO 13997:1999 TDM cut resistance test; classified according to the minimum requirements for each level shown in Tables 1 and 2.</p> <p>NOTE 1 Gloves meeting the requirements for resistance to puncture may not be suitable for protection against sharply pointed objects such as hypodermic needles.</p> <p><b>Table 1 - Levels of performance</b></p> <table><tr><th>Test</th><th>Level 1</th><th>Level 2</th><th>Level 3</th><th>Level 4</th><th>Level 5</th></tr><tr><td>6.1 Abrasion resistance (number of rubs)</td><td>100</td><td>500</td><td>2 000</td><td>8 000</td><td>-</td></tr><tr><td>6.2 Blade cut resistance (index)</td><td>1,2</td><td>2,5</td><td>5,0</td><td>10,0</td><td>20,0</td></tr><tr><td>6.4 Tear resistance (N)</td><td>10</td><td>25</td><td>50</td><td>75</td><td>-</td></tr><tr><td>6.5 Puncture resistance (N)</td><td>20</td><td>60</td><td>100</td><td>150</td><td>-</td></tr></table> <p><b>Table 2 - Levels of performance for materials tested with EN ISO 13997</b></p> <table><tr><th></th><th>Level A</th><th>Level B</th><th>Level C</th><th>Level D</th><th>Level E</th><th>Level F</th></tr><tr><td>6.3 TDM: cut resistance (N)</td><td>2</td><td>5</td><td>10</td><td>15</td><td>22</td><td>30</td></tr></table> <p>NOTE 2 There is no correlation between the levels of performance obtained with the 6.2 and 6.3 test methods.</p> <p>NOTE 3 Uncertainty of measurement, see Annex B.</p> <p>If relevant, additional areas of the protective glove shall be tested ( e.g. for specific protection or for areas which provide lower protection) and the results shall be reported in the user instructions.</p>	Test	Level 1	Level 2	Level 3	Level 4	Level 5	6.1 Abrasion resistance (number of rubs)	100	500	2 000	8 000	-	6.2 Blade cut resistance (index)	1,2	2,5	5,0	10,0	20,0	6.4 Tear resistance (N)	10	25	50	75	-	6.5 Puncture resistance (N)	20	60	100	150	-		Level A	Level B	Level C	Level D	Level E	Level F	6.3 TDM: cut resistance (N)	2	5	10	15	22	30	<p>The gloves meets requirements of EN 420.</p> <p>Test report No: 19-3-07042 (Euroinspekt Eurotextil d.o.o., Croatia)</p> <p><b>Abrasion resistance:</b> number of rubs = 3477</p> <ul style="list-style-type: none"><li>• <b>Level 3</b></li></ul> <p><b>Blade cut resistance:</b> index = 1,40</p> <ul style="list-style-type: none"><li>• <b>Level 1</b></li></ul> <p><b>Tear resistance:</b> force = 25 N</p> <ul style="list-style-type: none"><li>• <b>Level 2</b></li></ul> <p><b>Puncture resistance:</b> force = 44 N</p> <ul style="list-style-type: none"><li>• <b>Level 1</b></li></ul> <p><b>TDM: cut resistance:</b> not tested</p> <ul style="list-style-type: none"><li>• <b>X</b></li></ul>	+
Test	Level 1	Level 2	Level 3	Level 4	Level 5																																										
6.1 Abrasion resistance (number of rubs)	100	500	2 000	8 000	-																																										
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6.3 TDM: cut resistance (N)	2	5	10	15	22	30																																									
4.2	Additional Protection																																														
4.2.1	General																																														
	Additional protection can be claimed when the gloves conform to the requirements defined in the following clause(s).	No request	/																																												



Requirement:		Result/Document/Remark	Fulfilling of the requirement / = not requirement + = fulfills - = doesn't fulfill
<b>4.2.2</b>	<b>Impact protection</b>		
	<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.</p> <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.</p> <p>When the tests were carried out according to 6.6, performance shall conform to Level 1 of EN 13594:2015, Table 7.</p>	Not requirement.	/
<b>7</b>	<b>Marking</b>		
<b>7.1</b>	<b>General</b>		
	Marking of the protective glove or arm protector shall be in accordance with the applicable clauses of EN 420.	All marking meets requests of EN 420	+
<b>7.2</b>	<b>Pictograms</b>		
	<p>For gloves satisfying the requirements of Clause 4, the mechanical properties of the glove shall be shown by the pictogram, see Figure 10, for the mechanical risks followed by the respective performance levels of each mechanical test (see Figure 11).</p> <p>The first number corresponds to the abrasion resistance, the second one to the blade cut resistance, the third one to the tear resistance, the fourth one to the puncture resistance and the fifth character (a letter) to the EN ISO 13997:1999 cut resistance (as shown in Tables 1 and 2).</p> <p>If the blade cut resistance test as per 6.2 proves to show dulling of the blades as defined under 6.3, and cut resistance is being claimed, at least the EN ISO 13997:1999 alphabetical cut resistance level shall be marked. The numerical cut level as per 6.2 may be optionally reported in the marking alongside the alphabetical level given by the results of the test according to EN ISO 13997 :1999 method's alphabetical level.</p> <p>The positioning of the pictogram and performance levels in relation to each other shall be in accordance to EN 420.</p>	 <p>EN 388:2016 3 1 2 1 X</p>	+
	 <p>Figure 10 - Pictogram for mechanical risks</p>		
<b>7.3</b>	<b>Marking of additional requirements</b>		
	<p>Impact protection</p> <p>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).</p>		

Requirement:		Result/Document/Remark	Fulfilling of the requirement / = not requirement + = fulfills - = doesn't fulfill																												
7.4	<p data-bbox="220 331 453 365">Examples of marking</p> <div data-bbox="520 533 671 703">  </div> <p data-bbox="555 719 632 745">EN 388</p> <p data-bbox="472 752 715 779">Example 1 : 3 4 4 3 E P</p> <p data-bbox="483 786 703 813">Example 2 : 3 X 0 3 E</p> <p data-bbox="483 819 703 846">Example 3 : 3 2 0 3 X</p> <p data-bbox="288 853 900 880">Figure 11 - Example of marking for the mechanical risks</p> <p data-bbox="220 913 839 940">Table 4 - Explanation of the examples given in Figure 11</p> <table data-bbox="220 947 963 1305"> <tr> <th>Example</th><th>N°1</th><th>N°2</th><th>N°3</th></tr> <tr> <td>Abrasion (6.1)</td><td>level 3</td><td>level 3</td><td>level 3</td></tr> <tr> <td>Cut (6.2)</td><td>level 4</td><td>test not performed or not applicable</td><td>level 2</td></tr> <tr> <td>Tear (6.4)</td><td>level 4</td><td>level 1 not achieved</td><td>level 1 not achieved</td></tr> <tr> <td>Puncture (6.5)</td><td>level 3</td><td>level 3</td><td>level 3</td></tr> <tr> <td>Cut (6.3)</td><td>level E</td><td>Level E</td><td>test not performed</td></tr> <tr> <td>Impact protection</td><td>achieved</td><td>test not performed</td><td>test not performed</td></tr> </table>	Example	N°1	N°2	N°3	Abrasion (6.1)	level 3	level 3	level 3	Cut (6.2)	level 4	test not performed or not applicable	level 2	Tear (6.4)	level 4	level 1 not achieved	level 1 not achieved	Puncture (6.5)	level 3	level 3	level 3	Cut (6.3)	level E	Level E	test not performed	Impact protection	achieved	test not performed	test not performed	<div data-bbox="1098 779 1249 949">  </div> <p data-bbox="1098 965 1238 1025">EN 388:2016 3 1 2 1 X</p>	+
Example	N°1	N°2	N°3																												
Abrasion (6.1)	level 3	level 3	level 3																												
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Impact protection	achieved	test not performed	test not performed																												
8	<p data-bbox="220 1458 890 1485">Information supplied by the manufacturer in the user notice</p> <p data-bbox="220 1503 963 1559">The information shall be in accordance with the applicable clause of EN 420.</p> <p data-bbox="220 1565 927 1621">Details of any special tests carried out in a different environment shall be given (see 5.3).</p> <p data-bbox="220 1628 963 1720">If relevant, a warning shall be included that for gloves with two or more layers the overall classification does not necessarily reflect the performance of the outermost layer.</p> <p data-bbox="220 1727 703 1753">If impact protection is claimed, it shall state:</p> <p data-bbox="220 1760 655 1787">the area(s) where protection is claimed;</p> <p data-bbox="220 1794 855 1821">a warning that the protection does not apply to the finger.</p> <p data-bbox="220 1827 948 1946">For any mechanical resistant gloves which achieve and show a tear performance (6.4), equal or greater than level 1, a warning shall be included that gloves shall not be worn when there is a risk of entanglement by moving parts of machines.</p> <p data-bbox="220 1953 963 2072">For dulling during the cut resistance test (6.2), the coupe test results are only indicative while the TDM cut resistance test (6.3) is the reference performance result. This sentence shall be indicated in the user notice.</p>	<p data-bbox="991 1666 1342 1722">All informations meets requests of EN 420.</p> <p data-bbox="991 1767 1342 1921">All warnings stands in technical documentation: TECHNICAL DOCUMENTATION - Protective gloves against mechanical risks, Type: GU-242</p>	+																												

**Documentation used for conformity assessment:**

- Test report No.: 19-3-07042, issued 16.07.2019. by Euroinspekt Eurotextil d.o.o., Croatia
- Technical documentation of manufacturer: TECHNICAL DOCUMENTATION - Protective gloves against mechanical risks  
Type: GU-242

**RESULTS OF CONFORMITY ASSESSMENT:**

The implemented procedure of conformity assessment examined type PPE which is representative of the intended production (production type) found to comply with the requirements of harmonized standards **HRN EN 388:2016 (EN 388:2016)** and the applicable essential health and safety requirements of Regulation (EU) 2016/425 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686 / EEC and determining the levels and/or protection classes.

Issued: 18.07.2019.

**EUROINSPEKT EUROTETITL**  
d.o.o. za kontrolu robe  
i inženjering  
Zagreb, Preradovićeve 31/a

Approved by:

Gordana Rendulić, ing.

