
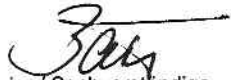


<b>Prüfbericht - Nr.:</b> 21146066 001		<b>Seite 1 von 5</b>	
<i>Test Report No.:</i>		<i>Page 1 of 5</i>	
<b>Auftraggeber:</b> <i>Client:</i>	Weldas Europe B.V. Blankenweg 18, 4612 RC Bergen op Zoom, Holland		
<b>Gegenstand der Prüfung:</b> <i>Test item:</i>	Protective gloves against mechanical risks		
<b>Bezeichnung:</b> <i>Identification:</i>	article 10-2633	<b>Serien-Nr.:</b> <i>Serial No.:</i>	-
<b>Wareneingangs-Nr.:</b> <i>Receipt No.:</i>	556-10-0071/02 / 1051997	<b>Eingangsdatum:</b> <i>Date of receipt:</i>	22.12.2009
<b>Prüfört:</b> <i>Testing location:</i>	<b>TRLP / Prüfstelle für Textilien/PSA Leipzig</b> Maximilianallee 4, 04129 Leipzig, Fon/Fax: +49 341 600 369-0 / -10		
<b>Prüfgrundlage:</b> <i>Test specification:</i>	DIN EN 388:2003, DIN EN 420:2003		
<b>Prüfergebnis:</b> <i>Test Result:</i>	<b>Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).</b> <i>The test item passed the test specification(s).</i>		
<b>Prüflaboratorium:</b> <i>Testing Laboratory:</i>	<b>TRLP / Prüfstelle für Textilien/PSA Leipzig</b>		
<b>geprüft/ tested by:</b>	<b>kontrolliert/ reviewed by:</b>		
08.02.2010	 Albrecht / Sachverständige	08.02.2010	 Baier / Sachverständige
<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>
			<b>Name/Stellung</b> <i>Name/Position</i>
			<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges/ Other Aspects:</b>			
<b>Leistungsstufen: 2 1 4 3</b>			
<b>Abkürzungen:</b>	<i>P(ass) = entspricht Prüfgrundlage</i>	<b>Abbreviations:</b>	<i>P(ass) = passed</i>
	<i>F(all) = entspricht nicht Prüfgrundlage</i>		<i>F(all) = failed</i>
	<i>N/A = nicht anwendbar</i>		<i>N/A = not applicable</i>
	<i>N/T = nicht getestet</i>		<i>N/T = not tested</i>
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b>			
<i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>			

**Prüfbericht - Nr.: 21146066 001**  
 Test Report No.: 556-10-0071/02



Seite 2 von 5  
 Page 2 of 5

## Used measuring instruments

Measuring	Device-Number Inventory-Number Serial-Number	next Calibration
pH-value	7440146	08/2010
Chromium VI content, Azo dyestuff		chemical laboratory
Sizing	7440161	01/2011
Dexterity	7440197	11/2010
Water vapour resistance	7440175	02/2010
Scales	7440120	02/2010
Abrasion resistance	7440134	09/2010
Blade cut resistance	7440107	03/2010
Tear resistance	7440191	03/2010
Puncture resistance	7440192	03/2010

Test results of accredited laboratories of competent subcontractor are marked with /\*.

## Material description/Picture

		<p>Material construction:</p> <p>Palm/: grain Bison leather, thickness 1,0 mm</p> <p>Back: cow split leather, green</p>
<p>article 10-2633</p>		

**Prüfbericht - Nr.: 21146066 001**  
 Test Report No.: 556-10-0071/02

Seite 3 von 5  
 Page 3 of 5

## Test results

Protective gloves against mechanical risks according to EN 388

Parameter	according to EN 388	Requirement	Test result	Remark																	
				P	F	N/A	N/T														
<b>Glove design and construction</b> General	clause 4 EN 420, 4.1	- in foreseeable conditions of use, protection at highest possible level - minimal time for put on/take off - overall not significantly decreased by seams	given				P														
<b>Resistance to water penetration</b>	clause 4 EN 420, 4.2	if required, leather: <table border="1"> <thead> <tr> <th>level</th> <th>penetration time [min]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>30</td> </tr> <tr> <td>2</td> <td>60</td> </tr> <tr> <td>3</td> <td>120</td> </tr> <tr> <td>4</td> <td>180</td> </tr> </tbody> </table> textil:	level	penetration time [min]	1	30	2	60	3	120	4	180	-				N/A				
level	penetration time [min]																				
1	30																				
2	60																				
3	120																				
4	180																				
<b>Innocuousness of protective gloves</b> General	clause 4 EN 420, 4.3.1	- protection at use without harm to user - all substances contained which are known to cause allergies are named	given /* AZ 64439				P														
<b>Azo dyestuff</b> leather	DIN EN ISO 17234/ DIN EN 14362	< 30 mg/kg	cow leather green < 30 mg/kg				P														
<b>Determination of pH-value</b>	clause 4 EN 420, 4.3.2	>3,5 and < 9,5	bison leather 3,52 cow leather 4,35				P														
<b>Determination of chromium (VI) content</b>	clause 4 EN 420, 4.3.3	under detection limit (detection limit 3 mg/kg)	/* AZ 64439 bison leather < 2 mg/kg cow split leather < 2 mg/kg				P														
<b>Determination of extractable protein content</b>	clause 4 EN 420, 4.3.4	natural rubber: Lowry- test method: under detection limit	-				N/A														
<b>Cleaning</b>	clause 4 EN 420, 4.4	no negative influence of performance levels after cleaning	-				N/A														
<b>Electrostatic properties</b>	clause 4 EN 420, 4.5	if required,	-				N/A														
<b>Comfort and efficiency</b> Sizing	clause 4 EN 420, 5.1.2	- sizes are defined <table border="1"> <thead> <tr> <th>glove size</th> <th>minimum length [mm]</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>220</td> </tr> <tr> <td>7</td> <td>230</td> </tr> <tr> <td>8</td> <td>240</td> </tr> <tr> <td>9</td> <td>250</td> </tr> <tr> <td>10</td> <td>260</td> </tr> <tr> <td>11</td> <td>270</td> </tr> </tbody> </table>	glove size	minimum length [mm]	6	220	7	230	8	240	9	250	10	260	11	270	Size Length [mm] M/8 250 L/9 255 XL/10 260				P
glove size	minimum length [mm]																				
6	220																				
7	230																				
8	240																				
9	250																				
10	260																				
11	270																				
<b>Special applications</b>	clause 4 EN 420, 5.1.3	fit for special purpose (clearly stated in instruction for use)	-				N/A														



**Prüfbericht - Nr.: 21146066 001**  
**Test Report No.: 556-10-0071/02**

Seite 4 von 5  
Page 4 of 5

Parameter	according to EN 388	Requirement		Test result		Remark				
		performance level	smallest diameter of pin			P	F	N/A	N/T	
<b>Dexterity</b>	clause 4 EN 420, 5.2	- as much dexterity as possible - if required,		pin: 5mm		P				
						perf. level 5				
		1	11							
		2	9,5							
		3	8							
		4	6,5							
		5	5							
<b>Water vapour transmission</b> <b>Water vapour absorption</b>	clause 4 EN 420, 5.3	- protective gloves shall allow water vapour transmission. - if required: WVT: $\geq 5 \text{ mg}/(\text{cm}^2\cdot\text{h})$ . - where protection level inhibits or excludes water vapour transmission, effect of perspiration is reduced - if required: WVA: $\geq 8 \text{ mg}/\text{cm}^2$ for 8 h		palm: WVT 9,08 mg/cm <sup>2</sup> h WVA 12,85 mg/cm <sup>2</sup>  back: WVT 9,83 mg/cm <sup>2</sup> h WVA 24,51 mg/cm <sup>2</sup>		P				
<b>Abrasion resistance</b>	clause 6.1	performance level	abrasion (cycles)	bison leather breakthrough between [cycles]		P				
		1	100	500-2000	500-2000					
		2	500	500-2000	500-2000					
		3	2000							
		4	8000							
				lowest value for classification: 500		perf. level 2				
<b>Blade cut resistance</b>	clause 6.2	performance level	blade cut resist. (index)	glove palm: index i:		P				
		1	1,2	1,6	1,3					
		2	2,5	1,4	1,3					
		3	5,0	1,2	1,6					
		4	10,0	1,7	1,2					
		5	20,0	1,2	1,6					
				index l:	1,4	1,4	perf. level 1			
				lowest Index l for classification: 1,4						
<b>Tear resistance</b>	clause 6.3	performance level	Tear [N]	bison leather: several values [N]		P				
		1	10	98	212					
		2	25	114	193					
		3	50							
		4	75							
				lowest value for classification: 98		perf. level 4				
<b>Puncture resistance</b>	clause 6.4	performance level	puncture [N]	bison leather: several values [N]		P				
		1	20	125	172					
		2	60	151	137					
		3	100							
		4	150							
				lowest value for classification: 125		perf. level 3				

**Prüfbericht - Nr.: 21146066 001**  
 Test Report No.: 556-10-0071/02

Seite 5 von 5  
 Page 5 of 5

Parameter	according to EN 388	Requirement	Test result	Remark			
				P	F	N/A	N/T
<b>Marking and Information</b>	clause 7			P			
General	clause 7.1 EN 420, clause 7	<ul style="list-style-type: none"> <li>- all details have to be precise and in official language of country</li> <li>- name, trade mark or other means of identification of the manufacturer</li> <li>- article identification</li> <li>- size</li> <li>- if required, best use before</li> </ul>	given  Weldas  10-2633 M -				
Pictogram	clause 7.2	<ul style="list-style-type: none"> <li>- EN 388:2003, EN 420:2003</li> <li>- figures:</li> </ul> <p>Gloves with protection against mechanical risks:</p>  	given given				
<b>Information of the manufacturer</b>	clause 8 EN 420, clause 7	<ul style="list-style-type: none"> <li>- name, trade mark or other means of identification of the manufacturer</li> <li>- glove type , name or code for identification</li> <li>- size</li> <li>- if the expected shelf-life of the gloves is reduced by aging, the expiration date have to be added</li> <li>- the pictograms</li> <li>- if protection is only given, for part of gloves, information have to be added</li> <li>- possible problems</li> <li>- instruction for use for gloves and also for use with combination of other PPE</li> <li>- care label</li> </ul> <p>Additional information:</p> <ul style="list-style-type: none"> <li>- details of any special tests carried out in a different environment shall be given</li> <li>- if relevant, should be note that for gloves with tow or more non-bonded layers the overall classification does not necessarily reflect the performance of the outermost layer</li> <li>- Users should be warned that gloves should not be worn when there is a risk of entanglement by moving parts of machines</li> </ul>	Weldas  10-2633  M-XXL n/a  given protective gloves  desriped  desriped  n/a n/a  given	P			