
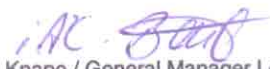


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<b>Auftraggeber:</b> <i>Client:</i>	Weldas Europe B.V. Blankenweg 18, 4612 RC Bergen op Zoom, Holland	
<b>Gegenstand der Prüfung:</b> <i>Test item:</i>	Protective gloves for welders	
<b>Bezeichnung:</b> <i>Identification:</i>	10-2755 10-2150	<b>Serien-Nr.:</b> <i>Serial No.:</i>
<b>Wareneingangs-Nr.:</b> <i>Receipt No.:</i>	744-801173/02 / 1038681	<b>Eingangsdatum:</b> <i>Date of receipt:</i>
		09.06.2008 30.07.2008
<b>Prüfart:</b> <i>Testing location:</i>	<b>TRPS / Prüfstelle für Produktsicherheit Leipzig</b> Maximilianallee 4, 04129 Leipzig, Fon/Fax: +49 341 600 369-0 / -10	
<b>Prüfgrundlage:</b> <i>Test specification:</i>	DIN EN 12477/09.2005, DIN EN 420/2003	
<b>Prüfresultat:</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>TRPS / Prüfstelle für Produktsicherheit Leipzig</b>	
<b>geprüft/ tested by:</b>	<b>kontrolliert/ reviewed by:</b>	
26.08.2008	Albrecht / Expert	
26.08.2008	Knappe / General Manager Leipzig	
<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>		
Article 10-2150	mechanical performance levels	1 1 2 2
	thermal performance levels	4 2 3 X 4 X
Article 10-2755	mechanical performance levels	1 1 4 3
	thermal performance levels	4 3 3 X 4 X
<b>Abkürzungen:</b>	<i>P(ass) = entspricht Prüfgrundlage</i>	<b>Abbreviations:</b>
	<i>F(ail) = entspricht nicht Prüfgrundlage</i>	<i>P(ass) = passed</i>
	<i>N/A = nicht anwendbar</i>	<i>F(ail) = failed</i>
	<i>N/T = nicht getestet</i>	<i>N/A = not applicable</i>
		<i>N/T = not tested</i>
<p><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></p> <p><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></p>		

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## Used measuring instruments

Measuring	Device-Number Inventory-Number Serial-Number	next Calibration
chrom-VI-content, Azo dyestuff		accredited subcontractor

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

## Material description/Picture

### Protective gloves for welders

		<p><b>Article 10-2150</b></p> <p>glove palm: grain cowhide,          glove back: split cowhide          cuff: split cowhide          lining: cotton</p>
		<p><b>Article 10-2755</b></p> <p>glove palm: grain cowhide with COMFOflex lining          glove back: split deerskin with aluminated PFR rayon          cuff: split cowhide          lining cuff: cotton</p>

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**Protective gloves for welders according to DIN EN 12477**  
**Article 10-2755**

Parameter	according EN 12477	Requirement	Test result	Remark																							
				P	F	N/A	N/T																				
Glove design and construction General	clause 3 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																				
Resistance to water penetration	clause 3 EN 420, 4.2	if required, leather: <table border="1" style="margin-left: 20px;"> <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																										
Innocuousness of protective gloves General	clause 3 EN 420, 4.3.1	- protection at use without harm to user - all substances contained which are known to cause allergies are named	given				P																				
Determination of pH-value	clause 3 EN 420, 4.3.2	>3,5 and < 9,5	palm 4,9 back given /* test report 21128415 002 art. 2385 cuff 3,8				P																				
Determination of chromium (VI) content  Azo dye stuff	clause 3 EN 420, 4.3.3	under detection limit 3 mg/kg  under detection limit 30 mg/kg	/* TRPU AZ 43534, AZ 45553 <u>chromium content:</u> cuff split leather < 3 mg/kg yellow grain leather < 3 mg/kg grey split leather < 3mg/kg  /* test report 21128415 002 <u>Azo dye stuff:</u> yellow grain leather: < 30mg/kg COMFOflex < 30mg/kg				P																				
Determination of extractable protein content	clause 3 EN 420, 4.3.4	natural rubber: Lowry- test method: under detection limit	-				N/A																				
Cleaning	clause 3 EN 420, 4.4	no negative influence of performance levels after cleaning	information at user instruction				P																				
Comfort and efficiency Sizing	clause 3 EN 420, 5.1.2	<table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Hand size</th> <th>minimum length [mm]</th> </tr> </thead> <tbody> <tr><td>6</td><td>300</td></tr> <tr><td>7</td><td>310</td></tr> <tr><td>8</td><td>320</td></tr> <tr><td>9</td><td>330</td></tr> <tr><td>10</td><td>340</td></tr> <tr><td>11</td><td>350</td></tr> </tbody> </table>	Hand size	minimum length [mm]	6	300	7	310	8	320	9	330	10	340	11	350	<table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Size</th> <th>Length [mm]</th> </tr> </thead> <tbody> <tr><td>L (9)</td><td>360</td></tr> <tr><td>XL (10)</td><td>365</td></tr> </tbody> </table>	Size	Length [mm]	L (9)	360	XL (10)	365				P
Hand size	minimum length [mm]																										
6	300																										
7	310																										
8	320																										
9	330																										
10	340																										
11	350																										
Size	Length [mm]																										
L (9)	360																										
XL (10)	365																										
Special applications	clause 5.1.3	fit for special purpose (clearly stated in instruction for use)  type of protective gloves  after each test, the inside material have to be checked of damage	given				P																				

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Parameter	according EN 12477	Requirement	Test result	Remark			
				P	F	N/A	N/T
Water vapour transmission Water vapour absorption	EN 420, clause 5.3	if practicable, water vapour transmission allowed if required: WVT: $\geq 5 \text{ mg}/(\text{cm}^2\cdot\text{h})$ . if 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	glove palm: WVT 8,0 mg/cm <sup>2</sup> h WVA 14,5 mg/cm <sup>2</sup>  glove back: given /* test report 21128415 002 art. 2085	P			
<b>Abrasion resistance</b>	clause 5.1	type A at least level 2 type B at least level 1  performance level      abrasion (cycles) 1                              100 2                              500 3                              2000 4                              8000	breakthrough at about [cycles] palm: grain leather 2000      500 2000      500 back: aluminized rayon and split leather /* test report 21128415 002 art. 2085 deer split leather      500-2000 aluminized fabric      100-500 lining < 100  lowest value for classification: 500	P			perf. level 1 type B
<b>Blade cut resistance</b>	clause 5.2	type A at least level 1 type B at least level 1  performance level      blade cut resist. (index) 1                              1,2 2                              2,5 3                              5,0 4                              10,0 5                              20,0	palm: grain leather with foam lining index i: 2,2      2,2 2,0      2,4 2,1      1,6 2,2      2,0 2,1      2,2 index I: 2,1      2,1  lowest Index I for classification: 2,1	P			perf. level 1 type A+B
<b>Tear resistance</b>	clause 5.3	type A at least level 2 type B at least level 1  performance level      Tear [N] 1                              10 2                              25 3                              50 4                              75	several values palm: grain leather 122      87 /* test report 21128415 002 art. 2750  lowest value for classification: 87	P			perf. level 4 type A+B
<b>Puncture resistance</b>	clause 5.4	type A at least level 2 type B at least level 1  performance level      puncture [N] 1                              20 2                              60 3                              100 4                              150	several values palm: grain leather with foam lining 113      134 121      404  lowest value for classification: 113	P			perf. level 3 type A+B



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Parameter	according EN 12477	Requirement	Test result	Remark			
				P	F	N/A	N/T
Burning behaviour	clause 5.5	type A at least level 3 type B at least level 2  Performance after flame time [s] after glow time [s]  1 < 20 no requirem. 2 < 10 < 120 3 < 3 < 25 4 < 2 < 5  The seams at heated area do not open after burning time of 15 s.	after 3 s and 15 s:  after flame time: 0 after glow time: 0 no seams opening no melting				P
Contact Heat	clause 5.6	type A at least level 1 type B at least level 1  performance- contact temp. threshold level T <sub>c</sub> [°C] t <sub>t</sub> [s]  1 100 ≥ 15 2 250 ≥ 15 3 350 ≥ 15 4 500 ≥ 15	palm: grain leather with lining  at temperature 350°C  threshold time: 18 s				P
Convective Heat	clause 5.7	type A at least level 2 type B at least level 0  Performance level Heat transfer index HTI  1 ≥ 4 2 ≥ 7 3 ≥ 10 4 ≥ 18	heat transfer index:  palm: grain leather with foam lining 20  /* test report 21128415 002 art. 2385 back: aluminized rayon with COMFOflex and split leather 14 cuff: split leather with lining 14				P
Impact of molten metal drops	clause. 5.8	type A at least level 3 type B at least level 2  performance level number of drops 1 ≥ 10 2 ≥ 15 3 ≥ 25 4 ≥ 35	/* test report 21128415 002 art. 2385  back: > 40				P
Dexterity	clause 5.9	type A at least level 1 type B at least level 4  Performance smallest diameter of level pin  1 11 2 9,5 3 8 4 6,5 5 5	pin: 6,5 mm				P
Optional Electrostatic properties (vertical resistance)	clause 3.4 and EN 1149-2	vertical resistance between inner and outer side > 10 <sup>5</sup> Ω	-				N/A

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Parameter	according EN 12477	Requirement	Test result	Remark			
				P	F	N/A	N/T
Marking	clause 6	<ul style="list-style-type: none"> <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> <li>- EN 12477:2005</li> <li>- figures:</li> </ul> Protective gloves for welders: 	given  given given not required given given				P
Information of the manufacturer	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 instructions</li> <li>- information about penetration of UV-radiation and behaviour at arc welding</li> </ul>	given  given given information given  given not applicable  named given  only written given				P