

Prüfbericht - Nr.: 21128415 002

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Test Report No.:

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Auftraggeber: Weldas Europe B.V.
Client: De Poort 77, 4411 PB Rilland, Netherland

Gegenstand der Prüfung: Protective gloves for welders
Test item:

Bezeichnung: siehe Sonstiges
Identification: see other aspects
Serien-Nr.: 1027544
Serial No.:

Wareneingangs-Nr.: 744-700380/01
Receipt No.:
Eingangsdatum: 15.02.2007
Date of receipt:

Prüfört: TRPS / Prüfstelle für Produktsicherheit Leipzig
Testing location: Maximilianallee 4, 04129 Leipzig, Fon/Fax: +49 341 600 369-0 / -10

Prüfgrundlage: DIN EN 12477/09.2005, DIN EN 420/2003
Test specification:

Prüfergebnis: Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).
Test Result: The test item passed the test specification(s).

Prüflaboratorium: TRPS / Prüfstelle für Produktsicherheit Leipzig
Testing Laboratory:

geprüft/ tested by:			kontrolliert/ reviewed by:		
11.04.2007	Albrecht/Expert		11.04.2007		Knappe/General Manager Leipzig
Datum	Name/Stellung	Unterschrift	Datum	Name/Stellung	Unterschrift
<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>	<i>Date</i>	<i>Name/Position</i>	<i>Signature</i>

Sonstiges/ Other Aspects:

Art. 10-2000	Typ A	Performance levels:	mechanical	4133	thermal	413X3X
Art. 10-2900	Typ A			4233		423X4X
Art. 10-2385	Typ A			4133		41344X
Art. 10-2850	Typ A/B			3133		313X4X
Art. 10-2750	Typ A/B			4143		423X4X
Art. 10-2087	Typ A/B			4133		413X3X
Art. 10-2178	Typ A			4133		413X3X
Art. 10-2392	Typ A/B			3124		413X4X
Art. 10-2101	Typ A/B			3134		413X4X
Art. 10-1003	Typ A/B			3121		413X4X
Art. 10-1005	Typ A/B			2122		412X4X
Art. 10-1007	Typ B			2111		412X4X
Art. 10-1009	Typ B			2111		412X4X
Art. 10-2304	Typ A/B			2133		413X4X

Abkürzungen:	P(ass) = entspricht Prüfgrundlage	Abbreviations:	P(ass) = passed
	F(ail) = entspricht nicht Prüfgrundlage		F(ail) = failed
	N/A = nicht anwendbar		N/A = not applicable
	N/T = nicht getestet		N/T = not tested

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.

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.

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Used measuring instruments

Measuring	Device-Number Inventory-Number Serial-Number	next Calibration
Chromium VI content, Azo dye stuff		accredited test laboratory
Sizing	744 00 161	05/2008
Dexterity	744 00 197	05/2008

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

already certified articles:

10-2000 Test report M 9811321 E01, 744-800242, dtd. 22.05.1998,
 10-2087
 10-2178

10-2900 Test report M 9910845 E01, 744-900170, dtd. 07.04.1999
 10-2392

10-2385 Test report M 9910393 E01, 744-800515, dtd. 04.03.1999
 10-2850
 10-2750
 10-2101
 10-1003
 10-1005
 10-1007
 10-1009
 10-2304

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Art. 10-1007 Softouch

material:

palm goat grain leather
 back split cowhide leather
 lining without
 cuff split cowhide leather



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="display: inline-table; vertical-align: middle;"><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	given (see M 9910393 E01)			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	/* AZ 24740 goat leather < 3 mg/kg cow split leather < 3 mg/kg cow split leather < 30 mg/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	-			N/A															
Comfort and efficiency Sizing	clause 3 EN 420, 5.1.2	<table border="1" style="display: inline-table; vertical-align: middle;"><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	Size Length [mm] L/9 340			P	
Hand size	minimum length [mm]																				
6	300																				
7	310																				
8	320																				
9	330																				
10	340																				
11	350																				
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	type B given			P															

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Art. 10-1007 Softouch

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, leather: 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, leather: WVA: $\geq 8 \text{ mg}/\text{cm}^2$ for 8 h	given				P
Abrasion resistance	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	/* 21128415 001 breakthrough at about [cycles] goat leather 500-2000 split leather > 8000 lowest value for classification: > 500				P perf. level 2
Blade cut resistance	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	/* 21128415 001 index i: 1,5 1,5 1,4 1,5 1,5 index I: 1,5 lowest Index I for classification: 1,5				P perf. level 1
Tear resistance	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	/* 21128415 001 several values goat leather 24 23 lowest value for classification: 23				P perf. level 1
Puncture resistance	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	/* 21128415 001 several values 51 38 lowest value for classification: 38				P perf. level 1

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Art. 10-1007 Softouch

Parameter	according EN 12477	Requirement	Test result	Remark			
				P	F	N/A	N/T
Burning behaviour	clause 5.5	type A at least level 2 type B at least level 1 Performance after flame time [s] after glow time [s] <hr/> 1 < 20 no requirements 2 < 10 < 120 3 < 3 < 25 4 < 2 < 5 The seams at heated area do not open after burning time of 15 s.	/* 21128415 001 after flame time 2 s after glow time 3 s no seams opening no melted dropping no melting at inner layer no whole formation				P perf. level 4
Contact Heat	clause 5.6	type A at least level 1 type B at least level 1 performance- contact temp. threshold level <hr/> T _c [°C] t _t [s] 1 100 ≥ 15 2 250 ≥ 15 3 350 ≥ 15 4 500 ≥ 15	/* 21128415 001 glove palm at 100 °C 26 s at 250 °C 14 s				P perf. level 1
Convective Heat	clause 5.7	type A at least level 2 type B at least level 0 Performance level Heat transfer index HTI <hr/> 1 ≥ 4 2 ≥ 7 3 ≥ 10 4 ≥ 18	/* 21128415 001 glove back 8 s cuff 11 s				P perf. level 2
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 <hr/> 1 ≥ 10 2 ≥ 15 3 ≥ 25 4 ≥ 35	> 40 (see M 9910393 E01)				P perf. level 4
Dexterity	clause 5.9	type A at least level 1 type B at least level 4 Performance smallest diameter of level pin <hr/> 1 11 2 9,5 3 8 4 6,5 5 5	pin:5 mm				P perf. level 5
Optional Electrostatic properties (vertical resistance)	clause 3.4 and EN 1149-2	vertical resistance between inner and outer side > 10 ⁵ Ω	-				N/T

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Marking and Information according to EN 420/EN 12477 of gloves

Parameter	according EN 12477	Requirement	Test result	Remark			
				P	F	N/A	N/T
Marking	clause 6	<ul style="list-style-type: none"> - name, trade mark or other means of identification of the manufacturer - article identification - size - if required, best use before - EN 12477:2003 - figures: Protective gloves for welders: 	given				P
Information of the manufacturer	clause 7	<ul style="list-style-type: none"> - name, trade mark or other means of identification of the manufacturer - glove type , name or code for identification - size - if the expected shelf-life of the gloves is reduced by aging, the expiration date have to be added - the pictograms - if protection is only given, for part of gloves, information have to be added - possible problems - instruction for use for gloves and also for use with combination of other PPE - care label - information about penetration of UV-radiation and behaviour at arc welding - testing institute 	given given given not applicable given given given given given given given				P