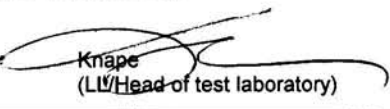


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<i>Test Report No.:</i>		
Auftraggeber: <i>Client:</i>	WELDAS EUROPE B.V. De Poort 77, 4411 PB Rilland, Holland	
Gegenstand der Prüfung: <i>Test Item:</i>	Protective clothing for use in welding and allied processes – Sweatbands for helmets – accessories	
Bezeichnung: <i>Identification:</i>	SWEATSOpad article-no.: 20-3100V, 20-3200V, 20-3303, 2001.411.02	Serien-Nr.: 1014899 <i>Serial No.:</i>
Wareneingangs-Nr.: <i>Receipt No.:</i>	744- 500570	Eingangsdatum: 26.04.2005 <i>Date of Receipt:</i>
Prüfart: <i>Testing Location:</i>	TRPS / Prüfstelle für Produktsicherheit Leipzig Maximilianallee 4, 04129 Leipzig, Fon/Fax: +49 341 60 56 06-0 / -5	
Prüfgrundlage: <i>Test Specification:</i>	EN 340: 2003, clause 4.2 c, d, e prEN ISO 11611: 2003, clause 6.1, 6.2, 6.6	
Prüfresultat: <i>Test Result:</i>	<p>Die Prüfgegenstände 20-3100V, 20-3200V und 2001.411.02 wurden geprüft und entsprechen oben genannter Prüfgrundlage. <i>The test items 20-3100V, 20-3200V and 2001.411.02 passed the test specification.</i></p> <p>Die Prüfgegenstand 20-3303 wurde geprüft und entspricht nicht oben genannter Prüfgrundlage. <i>The test item 20-3303 failed the test specification.</i></p>	
Prüflaboratorium: <i>Testing Laboratory:</i>	TRPS / Prüfstelle für Produktsicherheit Leipzig	
geprüft/ tested by:	kontrolliert/ checked by:	
16.12.2005 Zarembo (SV/Expert)	16.12.2005:  Knape (LL/Head of test laboratory)	
Datum <i>Date</i>	Name <i>Name</i>	Unterschrift <i>Signature</i>
Datum <i>Date</i>	Name <i>Name</i>	Unterschrift <i>Signature</i>
Sonstiges/ Other Aspects:		
<p>Dieser Prüfbericht ersetzt die Ausgabe vom 14.11.2005. <i>This test report replaces the version dated at 14-11-2005.</i></p>		
Abkürzungen:	ok / P = entspricht Prüfgrundlage fail / F = entspricht nicht Prüfgrundlage n.a. / N = nicht anwendbar	Abbreviations: ok / P = passed fail / F = failed n.a. / N = not applicable
<p>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. <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
flame spread	744 00 106	01/ 2006
colour fastness to rubbing	744 00 108	03/ 2006
pH-value, Azo-dyestuff		accredited subcontractor/ DEKRA
colour fastness to perspiration	744 00 181	09/ 2006
tensile strength, tear strength	744 00 191	01/ 2006

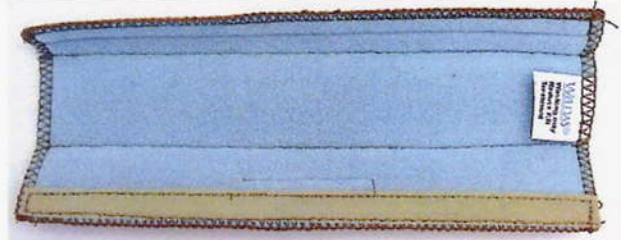
Test results of accredited laboratories of competent subcontractor are marked with /*.

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Material description/Picture

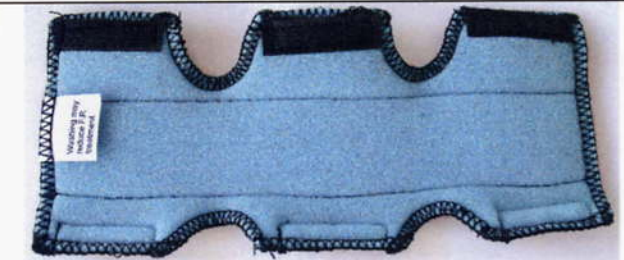
Article: 20-3100V
Material: 100 % fleecy cotton brown, air cushioned layer, Velcro fastening



Article: 20-3200V
Material: 100 % fleecy cotton brown, air cushioned layer, Velcro fastening



Article: 2001.411.02
Material: 100 % fleecy cotton black, air cushioned layer, Velcro fastening



Article: 20-3303
Material: 100 % fleecy cotton black, air cushioned layer, elastic



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21120493 001
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Article: 20-3100V

Parameter	according to	Requirement	Test result	Remark P F N																								
Determination of pH-value	EN 340, clause 4.2 c	pH value between >3,5 and < 9,5	brown 5,7 blue 5,8	P																								
General Harmlessness	EN 340, clause 4.2	fundamental requests with regard to health																										
Colour fastness to perspiration	clause 4.2 d	colour fastness to perspiration at least grade 4	<table border="1"> <thead> <tr> <th>staining</th> <th>alc</th> <th>acid</th> </tr> </thead> <tbody> <tr> <td>CA</td> <td>5</td> <td>5</td> </tr> <tr> <td>CO</td> <td>4</td> <td>4</td> </tr> <tr> <td>PA</td> <td>4-5</td> <td>4</td> </tr> <tr> <td>PES</td> <td>5</td> <td>5</td> </tr> <tr> <td>PAN</td> <td>4-5</td> <td>4-5</td> </tr> <tr> <td>WO</td> <td>4-5</td> <td>4-5</td> </tr> <tr> <td>colour change</td> <td>5</td> <td>4-5</td> </tr> </tbody> </table>	staining	alc	acid	CA	5	5	CO	4	4	PA	4-5	4	PES	5	5	PAN	4-5	4-5	WO	4-5	4-5	colour change	5	4-5	P
staining	alc	acid																										
CA	5	5																										
CO	4	4																										
PA	4-5	4																										
PES	5	5																										
PAN	4-5	4-5																										
WO	4-5	4-5																										
colour change	5	4-5																										
Colour fastness to rubbing		<i>tested additional</i>	dry 5 wet 4-5	P																								
Azo- dye stuff	clause 4.2 e	Azo- dye stuff under detection limit 30mg/ kg	brown under detection limit blue under detection limit	P																								
Tensile strength	prEN ISO 11611, clause 6.1	outer material shall have a minimum tensile strength of 400 N for textiles and a minimum tensile strength of 80 N for leather	brown 133 N	N In case of use as agreed the requirement for tensile strength of outer materials are not applicable.																								
Tear strength	prEN ISO 11611, clause 6.2	outer materials shall have a minimum tear strength of 20 N	brown 19 N	N In case of use as agreed the requirement for tear strength of outer materials are not applicable.																								
Flame spread	prEN ISO 11611, clause 6.6	When tested, outer material shall meet the following requirements: - no specimen shall give flaming to the top or either side edge - no specimen shall give hole formation - no specimen shall give flaming or molten debris - the mean value of after flame time shall be ≤ 2s - the mean value of afterglow time shall be ≤ 2s	given	P																								

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Article: 20-3200V

Parameter	according to	Requirement	Test result	Remark P F N																								
Determination of pH-value	EN 340, clause 4.2 c	pH value between >3,5 and < 9,5	brown 5,7 blue 5,8	P																								
General Harmlessness	EN 340, clause 4.2	fundamental requests with regard to health																										
Colour fastness to perspiration	clause 4.2 d	colour fastness to perspiration at least grade 4	<table border="1"> <thead> <tr> <th>staining</th> <th>alc</th> <th>acid</th> </tr> </thead> <tbody> <tr> <td>CA</td> <td>5</td> <td>5</td> </tr> <tr> <td>CO</td> <td>4</td> <td>4</td> </tr> <tr> <td>PA</td> <td>4-5</td> <td>4</td> </tr> <tr> <td>PES</td> <td>5</td> <td>5</td> </tr> <tr> <td>PAN</td> <td>4-5</td> <td>4-5</td> </tr> <tr> <td>WO</td> <td>4-5</td> <td>4-5</td> </tr> <tr> <td>colour change</td> <td>5</td> <td>4-5</td> </tr> </tbody> </table>	staining	alc	acid	CA	5	5	CO	4	4	PA	4-5	4	PES	5	5	PAN	4-5	4-5	WO	4-5	4-5	colour change	5	4-5	P
staining	alc	acid																										
CA	5	5																										
CO	4	4																										
PA	4-5	4																										
PES	5	5																										
PAN	4-5	4-5																										
WO	4-5	4-5																										
colour change	5	4-5																										
Colour fastness to rubbing		<i>tested additional</i>	dry 5 wet 4-5	P																								
Azo- dye stuff	clause 4.2 e	Azo- dye stuff under detection limit 30mg/ kg	brown under detection limit blue under detection limit	P																								
Tensile strength	prEN ISO 11611, clause 6.1	outer material shall have a minimum tensile strength of 400 N for textiles and a minimum tensile strength of 80 N for leather	brown 133 N	N In case of use as agreed the requirement for tensile strength of outer materials are not applicable.																								
Tear strength	prEN ISO 11611, clause 6.2	outer materials shall have a minimum tear strength of 20 N	brown 19 N	N In case of use as agreed the requirement for tear strength of outer materials are not applicable.																								
Flame spread	prEN ISO 11611, clause 6.6	When tested, outer material shall meet the following requirements: - no specimen shall give flaming to the top or either side edge - no specimen shall give hole formation - no specimen shall give flaming or molten debris - the mean value of after flame time shall be ≤ 2s - the mean value of afterglow time shall be ≤ 2s	given	P																								

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Article: 2001.411.02

Parameter	according to	Requirement	Test result	Remark P F N																								
Determination of pH-value	EN 340, clause 4.2 c	pH value between >3,5 and < 9,5	black 5,7 blue 5,8	P																								
General Harmlessness	EN 340, clause 4.2	fundamental requests with regard to health																										
Colour fastness to perspiration	clause 4.2 d	colour fastness to perspiration at least grade 4	<table border="1"> <thead> <tr> <th>staining</th> <th>alc</th> <th>acid</th> </tr> </thead> <tbody> <tr> <td>CA</td> <td>4-5</td> <td>4</td> </tr> <tr> <td>CO</td> <td>4</td> <td>4-5</td> </tr> <tr> <td>PA</td> <td>4-5</td> <td>4</td> </tr> <tr> <td>PES</td> <td>4-5</td> <td>4-5</td> </tr> <tr> <td>PAN</td> <td>4-5</td> <td>4-5</td> </tr> <tr> <td>WO</td> <td>4</td> <td>4</td> </tr> <tr> <td>colour change</td> <td>4-5</td> <td>4-5</td> </tr> </tbody> </table>	staining	alc	acid	CA	4-5	4	CO	4	4-5	PA	4-5	4	PES	4-5	4-5	PAN	4-5	4-5	WO	4	4	colour change	4-5	4-5	P
staining	alc	acid																										
CA	4-5	4																										
CO	4	4-5																										
PA	4-5	4																										
PES	4-5	4-5																										
PAN	4-5	4-5																										
WO	4	4																										
colour change	4-5	4-5																										
Colour fastness to rubbing		<i>tested additional</i>	dry 4-5 wet 4-5	P																								
Azo- dye stuff	clause 4.2 e	Azo- dye stuff under detection limit 30mg/ kg	black under detection limit blue under detection limit	P																								
Tensile strength	prEN ISO 11611, clause 6.1	outer material shall have a minimum tensile strength of 400 N for textiles and a minimum tensile strength of 80 N for leather	black 143 N	N In case of use as agreed the requirement for tensile strength of outer materials are not applicable.																								
Tear strength	prEN ISO 11611, clause 6.2	outer materials shall have a minimum tear strength of 20 N	black 14 N	N In case of use as agreed the requirement for tear strength of outer materials are not applicable.																								
Flame spread	prEN ISO 11611, clause 6.6	When tested, outer material shall meet the following requirements: - no specimen shall give flaming to the top or either side edge - no specimen shall give hole formation - no specimen shall give flaming or molten debris - the mean value of after flame time shall be ≤ 2 s - the mean value of afterglow time shall be ≤ 2 s	given	P																								

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Article: 20-3303

Parameter	according to	Requirement	Test result	Remark P F N																								
Determination of pH-value	EN 340, clause 4.2 c	pH value between >3,5 and < 9,5	black 5,7 blue 5,8	P																								
General Harmlessness	EN 340, clause 4.2	fundamental requests with regard to health																										
Colour fastness to perspiration	clause 4.2 d	colour fastness to perspiration at least grade 4	<table border="1"> <thead> <tr> <th>staining</th> <th>alc</th> <th>acid</th> </tr> </thead> <tbody> <tr> <td>CA</td> <td>4-5</td> <td>4</td> </tr> <tr> <td>CO</td> <td>4</td> <td>4-5</td> </tr> <tr> <td>PA</td> <td>4-5</td> <td>4</td> </tr> <tr> <td>PES</td> <td>4-5</td> <td>4-5</td> </tr> <tr> <td>PAN</td> <td>4-5</td> <td>4-5</td> </tr> <tr> <td>WO</td> <td>4</td> <td>4</td> </tr> <tr> <td>colour change</td> <td>4-5</td> <td>4-5</td> </tr> </tbody> </table>	staining	alc	acid	CA	4-5	4	CO	4	4-5	PA	4-5	4	PES	4-5	4-5	PAN	4-5	4-5	WO	4	4	colour change	4-5	4-5	P
staining	alc	acid																										
CA	4-5	4																										
CO	4	4-5																										
PA	4-5	4																										
PES	4-5	4-5																										
PAN	4-5	4-5																										
WO	4	4																										
colour change	4-5	4-5																										
Colour fastness to rubbing		<i>tested additional</i>	dry 4-5 wet 4-5	P																								
Azo- dye stuff	clause 4.2 e	Azo- dye stuff under detection limit 30mg/ kg	black under detection limit blue under detection limit	P																								
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Tear strength	prEN ISO 11611, clause 6.2	outer materials shall have a minimum tear strength of 20 N	black 14 N	N In case of use as agreed the requirement for tear strength of outer materials are not applicable.																								
Flame spread	prEN ISO 11611, clause 6.6	When tested, outer material shall meet the following requirements: - no specimen shall give flaming to the top or either side edge - no specimen shall give hole formation - no specimen shall give flaming or molten drops - the mean value of after flame time shall be $\leq 2s$ - the mean value of afterglow time shall be $\leq 2s$	- flaming to the top and the side edges - hole - no flaming and molten drops - after flame time: 180 s afterglow time: 180 s	F																								