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TECHNICAL REPORT FOR EU TYPE-EXAM CERTIFICATION of Personal Protective Equipment (PPE)

EU TYPE EXAMINATION Nº:

UE-000257/00

APPLICATION DATE: 02/09/2022

DATE OF ISSUE: 20/02/2023

APPLICANT:

WELDAS EUROPE B.V
BLANKENWEG 18, 4612 RC BERGEN OP ZOOM
NETHERLAND

PPE TYPE: JACKET

REFERENCE (PPE): 44-7300

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1. PPE IDENTIFICATION

1.1 Description and photography

Jacket in one layer of brown leather with green fabric detail in inner collar and central closure system of pressing buttons.

1.2 Description of the components

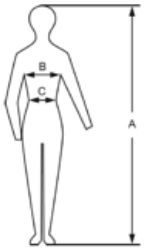
PPE components according to the information supplied by the manufacturer:

- Brown split cow leather.
- Green fabric flame retardant 100% cotton, 315 g/m²
- Snap button.
- Metal rivet.
- Hook and loop fastening

1.3 Sizes

The size chart supplied by the manufacturer:

	S	M	L	XL	2XL	3XL	4XL
	44	48	52	56	60	64	66
A	166-170	170-176	176-180	180-184	184-188	188-196	197-200
B	88-96	96-104	104-112	112-120	120-128	128-136	160
C	76-84	84-92*	92-102*	100-112*	112-124*	124-136*	114
* = art.nr. 44-7440/7600							



1.4 Samples given for certification

On date 19/10/2022, we receive one jacket in L size in the laboratory.

2. CERTIFICATION SCOPE

- **EN ISO 13688:2013** and **EN ISO 13688:2013/A1:2021** Protective clothing – General requirements.
- **EN ISO 11611:2015** Protective clothing for use in welding and allied processes

For the protection of the user check and upper limbs, except hands, against the following risks:

- Risk of burning due to contact with small splashes of molten metal.
- Risk of burning due to a short exposure to limited flame.
- Risk of burning due to radiant heat.
- Risk of short electric discharge.

3. DOCUMENTATION SUBMITTED

Technical documentation, including the next points:

- Complete description of the PPE and of its intended use
- Assessment of the risks against which the PPE is intended to protect
- List of the essential health and safety requirements that are applicable
- Design and manufacturing drawings and schemes of the PPE and of its components and explanations
- Reference of the harmonized standards and/ or other technical specifications
- Reports on the tests carried out to verify the conformity of the PPE
- A description of the means used by the manufacturer during the production (Modulo C)
    - Manufacturer´s instructions
    - Marking
    - Declaration of conformity

4. RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND ANNEX II OF REGULATION (EU) 2016/425 ON PPE

- **EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021** Protective clothing – General requirements.

Essential Health and Safety Requirements, according to Annex II of Regulation (UE) 2016/425	Clause(s) / sub-clause(s) of the standard EN ISO 13688:2013/A1:2021	Result	
1.2.1 Absence of risk and other inherent nuisance factors	5.3	Meet	☒
		Not meet	☐
		Not applicable	☐
1.2.1.1 Suitable constituent materials	4.2	Meet	☒
		Not meet	☐
		Not applicable	☐
1.2.1.2 Satisfactory Surface condition of all PPE parts in contact with the user	4.4	Meet	☒
		Not meet	☐
		Not applicable	☐
1.4 Manufacturer's instructions and information	8	Meet	☒
		Not meet	☐
		Not applicable	☐
2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	6; 7	Meet	☒
		Not meet	☐
		Not applicable	☐

- **EN ISO 11611:2015** Protective clothing for use in welding and allied processes

Essential requirements of Annex II of the EU Directive 89/686/EEC[(1)]	Clause(s) / sub-clause(s) of the standard EN ISO 11611:2015	Result	
1.2.1. Absence of inherent risk and other nuisance factors	4.1; 4.2; 4.3; 4.5; 4.6; 4.7; 6.6; 6.10 y 6.11	Meet	☒
		Not meet	☐
		Not applicable	☐
1.3.1 Adaptation of PPE to user morphology	4.4	Meet	☒
		Not meet	☐
		Not applicable	☐
1.4 Manufacturer´s instructions and information	5.2; 8	Meet	☒
		Not meet	☐
		Not applicable	☐
2.4 PPE subject to ageing	5.3	Meet	☐
		Not meet	☐
		Not applicable	☒
1.3.2 Lightness and strength	6.2; 6.3; 6.4 y 6.5	Meet	☒
		Not meet	☐
		Not applicable	☐
3.6.1 PPE constituent materials and other components	6.7; 6.8; 6.9	Meet	☒
		Not meet	☐
		Not applicable	☐
3.6.2 Complete PPE ready for use	6.8; 6.9	Meet	☒
		Not meet	☐
		Not applicable	☐
1.1.2.2 Classes of protection appropriate to different levels of risk	6.1; 6.8 y 6.9	Meet	☒
		Not meet	☐
		Not applicable	☐

Essential requirements of Annex II of the EU Directive 89/686/EEC[1]	Clause(s) / sub-clause(s) of the standard EN ISO 11611:2015	Result	
2.12 PPE bearing one or more identification markings or indicators direct	7	Meet	☒
		Not meet	☐
		Not applicable	☐

[1] *Warning: In order to comply with this non-harmonized standard according to Regulation (EU) 2016/425, the risk assessment carried out by the manufacturer, in its technical documentation, shall be studied and thus assess whether or not it is necessary to add any requirement granting compliance with the applicable minimum essential health and safety requirements, for the type of risk to which the user may be exposed.*

5. DESIGN EVALUATION

- **EN ISO 11611:2015** Protective clothing for use in welding and allied processes

Requirement
After design evaluation according to point 4 of EN ISO 11611:2015, the PPE is determined to be: Conforming ☒ Non-conforming ☐

6. COMFORT EVALUATION

- **EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021** Protective clothing – General requirements.

Requirement
After the comfort evaluation according to point 4.4 of EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021, the PPE is determined to be: Conforming ☒ Non-conforming ☐

7. SIZING EVALUATION

- **EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021** Protective clothing – General requirements.

Requirement
After evaluation of the sizing according to point 6 and Annex D of Standard EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021, it is determined that the PPE is: Conforming ☒ Non-conforming ☐

8. SUMMARY OF RESULTS

LEGEND RESULTS	
M	Meet
NM	Not meet
NA	Not applicable
NT	Not tested
*UoM	Uncertainty of measurement

- **EN ISO 13688:2013 and EN ISO 13688:2013/A1:2021** Protective clothing – General requirements.

Test	BE APLICATED	STANDARD	REQUERIMENTS	*UoM.	REPORT Nº	RESULT
Cr (VI) Innocuousness point 4.2	Each layer of material (Leather)	ISO 17075-1:2017 or ISO 17075-2:2017	EN ISO 13688:2013/A1:2021, point 4.2, a) Shall not exceed < 3mg/kg	NA	AR-23-YL-100983-01	M
Nickel Innocuousness point 4.2	All metallic materials which could come in contact with the skin	EN 1811:2011+A1:2015	EN ISO 13688:2013/A1:2021, point 4.2, b) Shall have a release of nickel of less than < 0,5µg/cm² per week.	NA	NA	NA
pH Innocuousness point 4.2	All materials	Textile ISO 3071:2020 Leather ISO 4045:2018	EN ISO 13688:2013/A1:2021, point 4.2 c) Greater than 3 ,5 and less than 9,5	±0,3	AR-23-YL-100983-01	M
Azo colorants which release carcinogenic amines listed Innocuousness point 4.2	All materials	ISO 14362-1:2017 and ISO 14362-3:2017(1)	EN ISO 13688:2013/A1:2021, point 4.2 Shall be no detectable	NA	AR-23-YL-101087-01	M
Confort point 4.4	Protective clothing	EN ISO 13688:2013, point 4.4 and EN 13921	EN ISO 13688:2013, point 4.4 and Annex C	NA	Point 6 of this report	M
Dimensional change due to cleaning after pre-treatment point 5.3	Protective clothing o textile	Washed ISO 5077 Dry cleaned ISO 3175-1	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 5.3 ≤ ±3% (woven) or ≤ ±5% (Knitted)	NA	NA	NA
General size designation point 6	Protective clothing	ISO 8559-1:2017, EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 6 and Annex D	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 6 and Table 1	± 1 mm	Point 7 of this report	M
Marking point 7	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 7 and Annex E			NA	NA	M
Information supplied by the manufacturer point 8	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 8			NA	NA	M

(1)The Azo colorants are tested according to ISO 17234-2:2011 and ISO 17234-1:2020 when leather material.

- **EN ISO 11611:2015** Protective clothing for use in welding and allied processes

TEST	BE APLICATED	STANDARD	REQUIREMENT	*UoM.	REPORT Nº	RESULT
General and design requirements point 4	-	EN ISO 11611:2015, point 4 and EN ISO 13688	EN ISO 11611:2015, point 4	NA	Point 5 of this report	M
Pre-treatment(1) point 5.2	Materials / garment	-	EN ISO 11611:2015, point 5.2	NA	NA	NA
Ageing(1) point 5.3	Materials / garment	-	EN ISO 11611:2015, point 5.3	NA	NA	NA
Classification point 6.1	Garment	EN ISO 11611:2015	EN ISO 11611:2015, point 6.1, Annex A Class 1 / Class 2	NA	NA	M Class 2
Tensile strength, after pre-treatment point 6.2	Woven outer material / Leather	ISO 13934-1 (woven) ISO 3376 (leather)	EN ISO 11611:2015, point 6.2 ≥ 400N (woven) ≥ 80N (leather)	±5,2%	AR-23-YL-100983-01	M
Tear strength, after pre-treatment point 6.3	Woven outer material / Leather	ISO 13937-2 (woven) ISO 3377-1 (leather)	EN ISO 11611:2015, point 6.3 Class 1 ≥ 15N Class 2 ≥ 20N	±13N	AR-23-YL-100983-01	M Class 2
Burst strength, after pre-treatment point 6.4	Knitted outer materials	ISO 13938-1 or ISO 13938-2	EN ISO 11611:2015, point ≥ 100 kPa (50cm²) ≥ 200 kPa (7,3cm²)	NA	NA	NA
	Structural seams in knitted materials			NA	NA	NA
Seam strength, after pre-treatment point 6.5	Structural seams of woven outer materials	ISO 13935-2	EN ISO 11611:2015, point 6.5 ≥ 225 N	±36N/ ±51N	AR-23-YL-100983-01	M
Dimensional change, after pre-treatment point 6.6	Garment or each fabric layer	ISO 5077, point 6.6	EN ISO 11611:2015, point 6.6 ≤ ±3% (woven) ≤ ±5% (knitted)	NA	NA	NA
Limited flame spread of the new material (Procedure A) Outer face point 6.7.2	Fabric / Outer assembly	EN ISO 11611:2015, point 6.7.2, 6.7.3 and ISO 15025	EN ISO 11611:2015, point 6.7.2 The flame does not reach the upper or either vertical edge No flaming or molten debris - No hole formation - Afterglow ≤ 2s - Afterflame ≤ 2s	±8,8%	AR-23-YL-100983-01	M A1
Limited flame spread, after pre-treatment (Procedure A) Outer face point 6.7.2	Fabric / Outer assembly			NA	NA	NA
Limited flame spread of the new material (Procedure A) Inner face point 6.7.2	Fabric / Outer assembly			NA	NA	NA
Limited flame spread, after pre-treatment	Fabric / Outer assembly			NA	NA	NA

TEST	BE APLICATED	STANDARD	REQUIREMENT	*UoM.	REPORT Nº	RESULT
(Procedure A) Inner face point 6.7.2						
Limited flame spread of the new material (Procedure B)(1) point 6.7.3	Fabric / Outer assembly		EN ISO 11611:2015, point 6.7.3 The flame does not reach the upper or either vertical edge No flaming or molten debris - Afterglow ≤ 2s - Afterflame ≤ 2s	±8,8%	AR-23-YL-100983-01	M A2
Limited flame spread, after pre-treatment (Procedure B) (1) point 6.7.3	Fabric / Outer assembly			NA	NA	NA
Limited flame spread, after pre-treatment (Procedure A) point 6.7.2	Seams		EN ISO 11611:2015, point 6.7.3 The flame does not reach the upper or either vertical edge No flaming or molten debris - Afterglow ≤ 2s - Afterflame ≤ 2s Seams do not separate	±8,8%	AR-23-YL-100983-01	M A1
Limited flame spread, after pre-treatment (Procedure B)(1) point 6.7.3	Seams			±8,8%	AR-23-YL-100983-01	M A2
Limited flame spread, after pre-treatment (Procedure A) point 6.7.2	Hardware		EN ISO 11611:2015, point 6.7.2 The flame does not reach the upper or either vertical edge No flaming or molten debris - Afterglow ≤ 2s - Afterflame ≤ 2s Closure system open at least once	±8,8%	AR-23-YL-100983-01	M A1
Small splashes of molten metal, after pre-treatment point 6.8	Fabric / Outer assembly	ISO 9150	EN ISO 11611:2015, point 6.8 Class 1: ≥ 15 and < 25 drops Class 2: ≥ 25 drops	±2	AR-23-YL-100983-01	M Class 2
Heat transfer (radiation), after pre-treatment point 6.9	Fabric / Outer assembly	ISO 6942 (Method B)	EN ISO 11611:2015, point 6.9 Class 1: 16 > RHTI 24 ≥ 7 Class 2: RHTI 24 ≥ 16	±1 s	AR-23-YL-100983-01	M Class 2
Electrical resistance, after pre-treatment point 6.10	Fabric / Outer assembly and seams	EN 1149-2	EN ISO 11611:2015, point 6.10 $> 10^5$ Ω	±2,20x 10^6 Ω	AR-23-YL-100983-01	M
Fat content of leather point 6.11	Leather	ISO 4048:2008	EN ISO 11611:2015, point 6.11 ≤ 15%	±4%	AR-23-YL-100983-01	M
Marking point 7	EN ISO 11611:2015, point 7 + EN ISO 13688, point 7			NA	NA	M
Information supplied by the manufacturer point 8	EN ISO 11611:2015, point 8 + EN ISO 13688, point 8			NA	NA	M

9. CONCLUSION

Based on the results obtained in the exams, evaluations and revisions the following can be deduced:

The PPE type **JACKET** reference **44-7300** with Class 2 protection (A1 + A2), classified as Category **II** Individual Protective Equipment and whose characteristics are stated in point 1 of this report, **COMPLIES** with the essential requirements established by Regulation (EU) 2016/425 of 9 March 2016 through the application of the standards and risks as stated in point 2 of this report.

Elche, 20th of February 2023

Signature of the conformity evaluator:

eurofins
Eurofins Textile Testing Spain, SLU
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B65978099

Digitally signed by FERRI SELLES MARIA SOLEDAD - 21672790M
Date: 2023.02.20 14:15:47 +01'00'