

TECHNICAL REPORT FOR EU TYPE-EXAMINATION CERTIFICATE of Personal Protective Equipment (PPE)

EU TYPE EXAMINATION No:

UE-000582/00

APPLICATION DATE:

18/12/2023

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APPLICANT:

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

PPE TYPE:

Welding glove

REFERENCE (PPE):

10-2009

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1. PPE IDENTIFICATION

1.1 Description and photograph

Five finger gloves made with yellow split leather. The right hand presents white grain split leather from the wrist to the bottom of the fingers.



1.2 Description of the components

PPE components according to the information supplied by the manufacturer:

- White grain leather - goatskin
- Yellow split leather – cow

1.3 Sizes

The size chart supplied by the manufacturer:

Hand Size Index	9	9 ½	10 ½
Weldas Size Label	L	XL	XXL
Measurement mm	229	241	267
Minimum length in mm	330	340	350

1.4 Samples given for certification

The 22nd of November of 2023 three (3) gloves size L, three (3) gloves size XL and three (3) gloves size XXL were received at the lab.

The 5th of January of 2024 six (6) pairs of gloves made with white grain leather and yellow split leather were received at the lab.

2. CERTIFICATION SCOPE

- **EN 420:2003+A1:2009** Protective gloves. General requirements and test methods
- **EN ISO 21420:2020** Protective gloves – General requirements and test methods
- **EN 12477:2001/A1:2005** Protective gloves for welders.

For the protection of the hands of the user 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 convective heat.
- Risk of burning due to contact heat.
- Mechanical risks.

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 harmonised 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 (Module 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 420:2003+A1:2009** Protective gloves - General requirements and test methods

Essential Health and Safety Requirements, according to Annex II of Directive (EU) 89/686/EEC	Clause(s) / sub-clause(s) of the standard EN 420:2003/A1:2009	Result
1.2.1.1 Suitable constituent materials	4.3	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.2.1.3 Maximum permissible user impediment	5.2	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.3.1 Adaptation of PPE to user morphology	5.1	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.4 Manufacturer's instructions and information	7.3	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.2 PPE enclosing the parts of the body to be protected	5.3	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.4 PPE subject to ageing	4.4 and 7.2.3	Meet <input type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input checked="" type="checkbox"/>
2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	7.2 and Annex B	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>

- **EN ISO 21420:2020** Protective gloves - General requirements and test methods

Essential Health and Safety Requirements, according to Annex II of Regulation (EU) 2016/425	Clause(s) / sub-clause(s) of the standard EN ISO 21420:2020	Result
1.2.1.1 Suitable constituent materials	4.2	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.2.1.3 Maximum permissible user impediment	5.2	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.4 Manufacturer's instructions and information	7.3	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.4 PPE subject to ageing	4.3; 7.2.1.1 f) and 7.2.2 g)	Meet <input type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input checked="" type="checkbox"/>
2.5 PPE which may be caught up during use	7.3.7	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.6 PPE for use in potentially explosive atmospheres	4.4	Meet <input type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input checked="" type="checkbox"/>

2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	7.2.1.1 d); 7.2.2 e) and 7.3.5	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>

- **EN 12477:2001/A1:2005** Protective gloves for welders.

Essential Health and Safety Requirements, according to Annex II of Directive (EU) 89/686/EEC	Clause(s) / sub-clause(s) of the standard EN 12477:2001/A1:2005	Result
1.1 Design principles	Clause 3 (reference a EN 420)	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.2 Innocuousness of PPE	Clause 3 (reference a EN 420)	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.3 Comfort and effectiveness	Clause 3 y 3.1	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.4 Manufacturer's instructions and information	Clause 7 (reference EN 420)	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.2 PPE enclosing the parts of the body to be protected	Clause 3 (reference a EN 420)	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.4 PPE subject to ageing	Clause 3 (reference EN 420)	Meet <input type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input checked="" type="checkbox"/>
2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	Clause 6 (reference EN 420)	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
3.3 Protection against mechanical injuries	Clause 3	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
3.6 Protection against heat and/or fire	Clause 3	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>

5. DESIGN EVALUATION

- **EN 420:2003+A1:2009** and **EN ISO 21420:2020** Protective gloves - General requirements and test methods

Requirement
After evaluation of the design according to point 4.1 of EN 420:2003+A1:2009 and EN ISO 21420:2020, the PPE is determined to be:
Conforming <input checked="" type="checkbox"/> Not Conforming <input type="checkbox"/>

6. SIZING EVALUATION

- **EN 420:2003+A1:2009 and EN ISO 21420:2020** Protective gloves - General requirements and test methods

Requirement
After evaluation of the sizing according to point 5.1 of EN 420:2003+A1:2009 and EN ISO 21420:2020, the PPE is determined to be:
Conforming <input checked="" type="checkbox"/> Non-Conforming <input type="checkbox"/>

- **EN 12477:2001/A1:2005** Protective gloves for welders.

Requirement
After evaluation of the sizing according to point 3.2 of EN 12477:2001/A1:2005, the PPE is determined to be:
Conforming <input checked="" type="checkbox"/> Non-Conforming <input type="checkbox"/>

7. DEXTERITY

- **EN 420:2003+A1:2009 and EN ISO 21420:2020** Protective gloves - General requirements and test methods

Requirement
After the evaluation of the dexterity according to point 5.2 of EN 420:2003/A1:2009 and EN ISO 21420:2020, it is determined that the PPE is:
Level of performance 0 <input type="checkbox"/> Level of performance 1 <input type="checkbox"/> Level of performance 2 <input type="checkbox"/> Level of performance 3 <input checked="" type="checkbox"/> Level of performance 4 <input type="checkbox"/> Level of performance 5 <input checked="" type="checkbox"/>
Remark: level 3 achieved by left hand and level 5 achieved by right hand.

8. SUMMARY OF RESULTS

LEGEND RESULTS	
M	Meet
NM	Not meet
NA	Not applicable
NT	Not tested

- EN 420:2003+A1:2009 Protective gloves - General requirements and test methods

TEST	APPLIES ON	STANDARD	REQUERIMENTS	REPORT N°	RESULT
Innocuousness of protective gloves Point 4.3.1	Glove	EN 420:2003+A1:2009, point 4.3.1	EN 420:2003+A1:2009, point 4.3.1	NA	M
Determination of pH value point 4.3.2	Grain leather	Others EN ISO 3071 Leather EN ISO 4045	EN 420:2003+A1:2009, point 4.3.2 The glove material shall have a pH value between 3,5 and 9,5.	DE21CMVU 002	M
	Split leather			60399937-003	
Cr (VI) Level point 4.3.3	Grain leather	EN ISO 17075:2007	EN 420:2003+A1:2009, point 4.3.3 < 3mg/kg	DE21CMVU 002	M
	Split leather			60399937-003	
Determination of the free protein content, point 4.3.4	Rubber	EN 455-3	EN 420:2003+A1:2009, point 4.3.4 EN 455-3 If the glove contains any substances known to cause allergic reactions, it shall be stated in the product information	NA	NA
Cleaning ⁽¹⁾ point 4.4	Glove	-	EN 420:2003+A1:2009, point 4.4	NA	NA
Sizing point 5.1	Glove	EN 420:2003+A1:2009, point 5.1	EN 420:2003+A1:2009, point 5.1 The glove sizes are standardized according to minimum length.	Point 6 of this report	M
Dexterity point 5.2	Glove	EN 420:2003+A1:2009, point 5.2	EN 420:2003+A1:2009, Table 4	Point 7 of this report	Level 3
					Level 5
Determination of the transmission of water vapor ⁽¹⁾ point 5.3.1	Right hand – grain and split leather	EN 420:2003+A1:2009, point 6.3 (IUP 15)	EN 420:2003+A1:2009, point 5.3.1 ≥ 5mg/(cm ² ·h)	DE21CMVU 002	M
	Left hand – split leather			60399937-003	
Determination of water vapour absorption ⁽¹⁾ point 5.3.2	textile / exterior assembly	EN 420:2003+A1:2009, point 6.3 (IUP 15)	EN 420:2003+A1:2009, point 5.3.2 ≥ 8mg/cm ² ·8h)	NT	NT
Marking point 7.2	EN 420:2003+A1:2009, point 7.2			NA	M
Information supplied by the manufacturer point 7.3	EN 420:2003+A1:2009, point 7.3			NA	M

- EN ISO 21420:2020 Protective gloves. General requirements and test methods

TEST	APPLIES ON		STANDARD	REQUERIMENTS	REPORT Nº	RESULT
Determination of content in Chromium (VI) point 4.2	Grain leather		ISO 17075-1 or ISO 17075-2	EN ISO 21420:2020, point 4.2 ≤ 3mg/kg	DE21CMVU 002	M
	Split leather				60399937- 003	
Release of nickel point 4.2	All metallic materials in contact with the skin		EN 1811+A1:2015	EN ISO 21420:2020, point 4.2 < 0,5µg/cm ² per week	NA	NA
Determination of pH point 4.2	Grain leather		Leather ISO 4045	EN ISO 21420:2020, point 4.2 Between 3,5 and 9,5	DE21CMVU 002	M
	Split leather		Others ISO 3071		60399937- 003	
Determination of azo colorants which release carcinogenic amines point 4.2	Grain leather		Textile EN 14362-1	EN ISO 21420:2020, point 4.2 Shall not be detectable	DE21CMVU 002	M
	Split leather		Leather ISO 17234-1		60399937- 003	
Dimethylformamide (DMFa) point 4.2	PU		EN 16778	EN ISO 21420:2020, point 4.2 ≤ 1000 mg/kg (0,1% weight/weight)	NA	NA
Determination of Polycyclic aromatic hydrocarbons (PAHs) point 4.2	Rubber or plastic materials in contact with the skin		ISO / TS 16190	EN ISO 21420:2020, point 4.2 and table 1 ≤ 1 mg/kg (0,0001% by mass+ of this component)	NA	NA
Cleaning ⁽¹⁾ point 4.3	Glove		-	EN ISO 21420:2020, point 4.3 and 7.3.14	NA	NA
Electrostatic properties ⁽¹⁾ point 4.4	Exterior fabric / assembly		EN 16350	EN ISO 21420:2020, point 4.4.1 Additional electrostatic properties determined by the test standards EN 1149-1 or EN 1149-3	NT	NT
Dexterity point 5.2	Glove	Left hand	EN ISO 21420:2020, point 6.2	EN ISO 21420:2020, point 5.2 and table 2	Point 7 of this report	Level 3
		Right hand				Level 5
Marking point 7.2.1.1 (d and f) and 7.2.2 (e and g)	EN ISO 21420:2020, point 7.2 and Annex C				NA	M
Information supplied by the manufacturer point 7.3	EN ISO 21420:2020, point 7.3				NA	M

- EN 12477:2001/A1:2005 Protective gloves for welders.

LEFT HAND – TYPE A

TEST	APPLIES ON	STANDARD	REQUERIMENTS		REPORT Nº	RESULT
General requirements point 3.1	-	EN 420:2003	All the applicable points except the lengths		NA	M
Sizes point 3.2	Glove	Point 3.2, table 1 Point 5.1, Standard EN 420:2003, except the lengths	Point 3.2, table 1 Point 5.1, Standard EN 420:2003, except the lengths		Point 6 of this report	M
Specific requirements point 3.3	-	Point 3.3, table 2	Point 3.3, table 2		NA	M
Abrasion resistance point 3.3	Split leather	Point 6.1, Standard EN 388	Type A Level 2 \geq 500 cycles	Type B Level 1 \geq 100 cycles	60399937- 003	Type A
Blade cut resistance point 3.3	Split leather	Point 6.2, Standard EN 388	Type A Level 1 \geq 1,2	Type B Level 1 \geq 1,2	AR-23-YL- 111347-01	Type A
Tear resistance point 3.3	Split leather	Point 6.4, Standard EN 388	Type A Level 2 \geq 25N	Type B Level 1 \geq 10N	60399937- 003	Type A
Puncture resistance point 3.3	Split leather	Point 6.5, Standard EN 388	Type A Level 2 \geq 60N	Type B Level 1 \geq 20N	60399937- 003	Type A
Burning behaviour point 3.3	Glove Left hand – split leather	EN ISO 6941 Point 6.3, Standard EN 407 ⁽¹⁾	Type A Level 3 $T_{\text{after flame}} \leq 3s$ $T_{\text{after glow}} \leq 25s$ If melts, it doesn't drop. No melting of the glove inner side. Seams don't come apart	Type B Level 2 $T_{\text{after flame}} \leq 10s$ $T_{\text{after glow}} \leq 120s$ If melts, it doesn't drop. No melting of the glove inner side. Seams don't come apart	60399937- 003	Type A
Contact heat resistance point 3.3	Split leather	EN 702 + Point 6.4, Standard EN 407	Type A (para $t_t \geq 15s$) Level 1 $T_c \geq 100^\circ C$	Type B (para $t_t \geq 15s$) Level 1 $T_c \geq 100^\circ C$	60399937- 003	Type A
Convective heat resistance point 3.3	Split leather	EN ISO 9151 + Point 6.5, Standard EN 407	Type A Level 2 HTI $\geq 7s$	Type B ----	60399937- 003	Type A
Resistance to small splashes of molten metal point 3.3	Split leather	EN 348 + Point 6.7, Standard EN 407	Type A Level 3 Drops ≥ 25	Type B Level 2 Drops ≥ 15	60399937- 003	Type A
Dexterity point 3.3	Glove Left hand – Split leather	Point 5.2 EN 420:2003	Type A Diameter ≥ 11 mm	Type B Diameter $\geq 6,5$ mm	Point 7 of this report	Type A Level 3
Optional requirements Electrical vertical resistance ⁽¹⁾ point 3.4	Each different part of the glove, including cuff	Point 5.10 and EN 1149-2	Type A $> 10^5 \Omega$	Type B $> 10^5 \Omega$	60399937- 003	Type A
Marking point 6	Point 6 + Point 7.2 of Standard EN 420				NA	M
Information supplied by the manufacturer point 7	Point 7 + Point 7.3, Standard EN 420				NA	M

⁽¹⁾ ISO 15025:2016 Modified by standard EN 407:2020

RIGHT HAND – TYPE B

TEST	APPLIES ON	STANDARD	REQUERIMENTS		REPORT Nº	RESULT
General requirements point 3.1	-	EN 420:2003	All the applicable points except the lengths		NA	M
Sizes point 3.2	Glove	Point 3.2, table 1 Point 5.1, Standard EN 420:2003, except the lengths	Point 3.2, table 1 Point 5.1, Standard EN 420:2003, except the lengths		Point 6 of this report	M
Specific requirements point 3.3	-	Point 3.3, table 2	Point 3.3, table 2		NA	M
Abrasion resistance point 3.3	Split leather	Point 6.1, Standard EN 388	Type A Level 2 ≥ 500 cycles	Type B Level 1 ≥ 100 cycles	60399937-003	Type B
	Grain leather				DE21CMVU 002	
Blade cut resistance point 3.3	Split leather	Point 6.2, Standard EN 388	Type A Level 1 ≥ 1,2	Type B Level 1 ≥ 1,2	AR-23-YL-111347-01	Type B
	Grain leather				AR-24-YL-001508-01	
Tear resistance point 3.3	Split leather	Point 6.4, Standard EN 388	Type A Level 2 ≥ 25N	Type B Level 1 ≥ 10N	60399937-003	Type B
	Grain leather				DE21CMVU 002	
Puncture resistance point 3.3	Split leather	Point 6.5, Standard EN 388	Type A Level 2 ≥ 60N	Type B Level 1 ≥ 20N	60399937-003	Type B
	Grain leather				DE21CMVU 002	
Burning behaviour point 3.3	Glove Right hand – split and grain leather	EN ISO 6941 Point 6.3, Standard EN 407 ⁽¹⁾	Type A Level 3 T _{after flame} ≤ 3s T _{after glow} ≤ 25s If melts, it doesn't drop. No melting of the glove inner side. Seams don't come apart	Type B Level 2 T _{after flame} ≤ 10s T _{after glow} ≤ 120s If melts, it doesn't drop. No melting of the glove inner side. Seams don't come apart	DE21CMVU 002	Type B
Contact heat resistance point 3.3	Split leather	EN 702 + Point 6.4, Standard EN 407	Type A (para t _t ≥ 15s) Level 1 T _c ≥ 100°C	Type B (para t _t ≥ 15s) Level 1 T _c ≥ 100°C	60399937-003	Type B
	Grain leather				AR-23-YL-111347-01	
Convective heat resistance point 3.3	Split leather	EN ISO 9151 + Point 6.5, Standard EN 407	Type A Level 2 HTI ≥ 7s	Type B ----	60399937-003	Type B
	Grain leather				DE21CMVU 002	
Resistance to small splashes of molten metal point 3.3	Split leather	EN 348 + Point 6.7, Standard EN 407	Type A Level 3 Drops ≥ 25	Type B Level 2 Drops ≥ 15	60399937-003	Type B
	Grain leather				DE21CMVU 002	

Dexterity point 3.3	Glove	Left hand – Split leather	Point 5.2 EN 420:2003	Type A Diameter \geq 11 mm	Type B Diameter \geq 6,5 mm	Point 7 of this report	Type A Level 3
		Right hand – Split and grain leather					Type A/B Level 5
Optional requirements Electrical vertical resistance ⁽¹⁾ point 3.4	Each different part of the glove, including cuff	Point 5.10 and EN 1149-2	Type A $> 10^5 \Omega$	Type B $> 10^5 \Omega$	60399937- 003	Type A/B	
						DE21CMVU 002	Type A/B
Marking point 6	Point 6 + Point 7.2 of Standard EN 420					NA	M
Information supplied by the manufacturer point 7	Point 7 + Point 7.3, Standard EN 420					NA	M

⁽¹⁾ ISO 15025:2016 Modified by standard EN 407:2020

9. CONCLUSION

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

The PPE type **WELDING GLOVE** reference **10-2009**, classified as Category II, **TYPE A left hand and Type B right hand** 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, 15th of March 2024

Signature of the conformity evaluator: