

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

EU TYPE EXAMINATION No:

UE-000394/00

APPLICATION DATE:

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APPLICANT:

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PPE TYPE:

Golden brown clothing - trousers

REFERENCE (PPE):

44-2600 and 44-2648

INDEX:

1. PPE identification
2. Certification scope
3. Documentation submitted
4. Relationship between this European Standard and Annex II of Regulation (EU) 2016/425 on PPE
5. Design evaluation
6. Comfort evaluation
7. Sizing evaluation
8. Summary of results
9. Conclusion

ANNEX.- EU Type-Examination Certificate

1. PPE IDENTIFICATION

1.1 Description and photograph

Golden brown trousers made with brown split leather and braces that fastens with plastic buckles. The front closures by means of push buttons, covered externally by a plastic isolating and internally with split leather. The variant of the bib trouser closures at the sides by means of metal zippers and hook and loop, they also present opening at the external side of the bottom of the leg which fastens with hook and loop material.



1.2 Description of the components

PPE components according to the information supplied by the manufacturer:

- Split leather in brown colour, 100% split cow-hide.
- Hook and loop fastening.
- Isolated push buttons.
- Metal zipper.
- Yellow trim.

1.3 Sizes

The size chart supplied by the manufacturer:

Trousers 44-2600			Bib trousers 44-2648		
SIZE	Waist user girth (cm)	Total user height (cm)	SIZE	Waist user girth (cm)	Total user height (cm)
M / 48	90-98	171-176	M / 48	90-98	171-176
L / 52	96-104	177-182	L / 52	96-104	177-182
XL / 56	98-120	183-187	XL / 56	98-120	183-187
XXL / 60	106-132	188-192	XXL / 60	106-132	188-192
XXXL / 64	108-144	193-196	XXXL / 64	108-144	193-196
XXXXL / 66	> 144	197-200	XXXXL / 66	> 144	197-200

1.4 Samples given for certification

On date 27th of March of 2023, one PPE of each type arrived at the laboratory.

On date 27th of July of 2023, one piece of split leather arrived at the lab.

2. CERTIFICATION SCOPE

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

This International Standard is only intended to be used in combination with other standards containing requirements for specific protective performance and not on stand- alone basis.

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

For the protection of the user body (except head, hands, and feet) 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 (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 ISO 13688:2013 y 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 <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.2.1.1 Suitable constituent materials	4.2	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.2.1.2 Satisfactory Surface condition of all PPE parts in contact with the user	4.4	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.4 Manufacturer's instructions and information	8	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	6; 7	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>

- **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 <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.3.1 Adaptation of PPE to user morphology	4.4	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.4 Manufacturer's instructions and information	5.2; 8	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.4 PPE subject to ageing	5.3	Meet <input type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input checked="" type="checkbox"/>
1.3.2 Lightness and strength	6.2; 6.3; 6.4 y 6.5	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
3.6.1 PPE constituent materials and other components	6.7; 6.8; 6.9	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
3.6.2 Complete PPE ready for use	6.8; 6.9	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.1.2.2 Classes of protection appropriate to different levels of risk	6.1; 6.8 y 6.9	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.12 PPE bearing one or more identification markings or indicators direct	7	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>

5. DESIGN EVALUATION

- **EN ISO 13688:2013** Protective clothing – General requirements.

Requirement
After design evaluation according to point 4.3 of EN ISO 13688:2013, the PPE is determined to be:
Conforming <input checked="" type="checkbox"/> Non-conforming <input type="checkbox"/>

- **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 <input checked="" type="checkbox"/> Non-conforming <input type="checkbox"/>

6. COMFORT EVALUATION

- **EN ISO 13688:2013** Protective clothing – General requirements.

Requirement
After the comfort evaluation according to point 4.4 of EN ISO 13688:2013, the PPE is determined to be:
Conforming <input checked="" type="checkbox"/> Non-conforming <input type="checkbox"/>

7. SIZING EVALUATION

- **EN ISO 13688:2013 y 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 <input checked="" type="checkbox"/> Non-conforming <input type="checkbox"/>

8. SUMMARY OF RESULTS

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

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

Test	BE APLICATED	STANDARD	REQUERIMENTS	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	AR-23-YL- 104442-01	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/cm ² per week.	AR-23-YL- 100983-01	M
pH Innocuousness point 4.2	Yellow trim	Textile ISO 3071:2020	EN ISO 13688:2013/A1:2021, point 4.2 c) Greater than 3,5 and less than 9,5	AR-23-YL- 104442-01	M
	Split leather	Leather ISO 4045:2018		AR-23-YL- 107692-01	
Azo colorants which release carcinogenic amines listed Innocuousness point 4.2	Yellow trim	ISO 14362-1:2017 and ISO 14362-3:2017 ⁽¹⁾	EN ISO 13688:2013/A1:2021, point 4.2 Shall be no detectable	AR-23-YL- 104442-01	M
	Split leather				
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	Section 6 of this report	M
Dimensional change due to cleaning after pre-treatment point 5.3	Protective clothing o textile	Washed ISO 5077	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 5.3 ≤ ±3% (woven) or ≤ ±5% (Knitted)	NA	NA
		Dry cleaned ISO 3175-1			
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	Section 7 of this report	M
Marking point 7	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 7 and Annex E			NA	M
Information supplied by the manufacturer point 8	EN ISO 13688:2013 + EN ISO 13688:2013/A1:2021, point 8			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	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	Section 5 of this report	M
Pre-treatment ⁽¹⁾ point 5.2	Materials / garment	-	EN ISO 11611:2015, point 5.2	NA	NA
Ageing ⁽¹⁾ point 5.3	Materials / garment	-	EN ISO 11611:2015, point 5.3	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	Class 2 A1 + A2
Tensile strength , after pre-treatment point 6.2	Leather	ISO 13934-1 (woven) ISO 3376 (leather)	EN ISO 11611:2015, point 6.2 ≥ 400N (woven) ≥ 80N (leather)	AR-23-YL- 107692-01	M
Tear strength , after pre- treatment point 6.3	Leather	ISO 13937-2 (woven) ISO 3377-1 (leather)	EN ISO 11611:2015, point 6.3 Class 1 ≥ 15N Class 2 ≥ 20N	AR-23-YL- 104442-01	M
Burst strength , after pre- treatment point 6.4	Knitted outer materials	ISO 13938-1 or ISO 13938-2	EN ISO 11611:2015, point 6.4 ≥ 100 kPa (50cm ²) ≥ 200 kPa (7,3cm ²)	NA	NA
	Structural seams in knitted materials			NA	NA
Seam strength , after pre- treatment point 6.5	Structural seams of outer materials	ISO 13935-2	EN ISO 11611:2015, point 6.5 ≥ 225 N	AR-23-YL- 104442-01	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
Limited flame spread of the new material (Procedure A) Outer face point 6.7.2	Leather	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	AR-23-YL- 104442-01	M A1
Limited flame spread of the new material (Procedure B) ⁽¹⁾ point 6.7.3	Leather		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	AR-23-YL- 104442-01	M A2
Limited flame spread as received (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	AR-23-YL- 104442-01	M A1

TEST	BE APLICATED	STANDARD	REQUIREMENT	REPORT Nº	RESULT
Limited flame spread as received (Procedure B) ⁽¹⁾ point 6.7.3	Seams		- Afterglow \leq 2s - Afterflame \leq 2s Seams do not separate	AR-23-YL-104442-01	M A2
Limited flame spread, as received (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 \leq 2s - Afterflame \leq 2s Closure system open at least once	AR-23-YL-104442-01	M A1
Small splashes of molten metal, as received point 6.8	Leather	ISO 9150	EN ISO 11611:2015, point 6.8 Class 1: \geq 15 and $<$ 25 drops Class 2: \geq 25 drops	AR-23-YL-104442-01	M Class 2
Heat transfer (radiation), as received point 6.9	Leather	ISO 6942 (Method B)	EN ISO 11611:2015, point 6.9 Class 1: 16 $>$ RHTI 24 \geq 7 Class 2: RHTI 24 \geq 16	AR-23-YL-104442-01	M Class 2
Electrical resistance, as received point 6.10	Leather and seams	EN 1149-2	EN ISO 11611:2015, point 6.10 $>$ $10^5 \Omega$	AR-23-YL-104442-01	M
Fat content of leather point 6.11	Leather	ISO 4048:2008	EN ISO 11611:2015, point 6.11 \leq 15%	AR-23-YL-104442-01	M
Marking point 7	EN ISO 11611:2015, point 7 + EN ISO 13688, point 7			NA	M
Information supplied by the manufacturer point 8	EN ISO 11611:2015, point 8 + EN ISO 13688, point 8			NA	M

9. CONCLUSION

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

The PPE type **Golden brown clothing – trousers** reference **44-2600 and 44-2648** 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, 5th of October 2023

Signature of the conformity evaluator: