

**VENDEE PROBAN: INDIVIDUAL PROTECTIVE CLOTHING FOR WELDERS AND WORKERS EXPOSED TO HEAT  
(not including fire fighters)  
COMPLIANT WITH EUROPEAN REGULATION AND EN/ISO 11611 : 2007 (Cat. 1 – A1+A2)  
EN/ISO 11612 : 2008 (level of performance: A1/A2, B1, C1, D0, E2)**

**Manufacturer's instructions**

**COAT 582, TROUSERS 580, COVERALLS (with sleeves) 577 and OVERALLS (sleeveless) 579**

**Description**

This individual protective clothing offers protection against heat and flames. It has been designed to protect against ACCIDENTAL risk inherent in welding and allied processes (under conditions described in ISO/EN 11611: 2007). It is also designed to protect against ACCIDENTAL risk of heat and flame encountered during industrial activity (as described in ISO/EN 11612 : 2008). It protects the wearer against:

- Small projections of molten metal, limited contact with flame, and the transfer of radiant heat.
- The transfer of heat from contact with flames and molten iron splashes, and the electric arc, in compliance with appendix F of ISO/EN 11612 : 2008 (electric arc: 4 kA, duration: 0.5s)

The clothing is compliant with EN/ISO 11611: 2007 – Protective clothing for use in welding and allied processes and EN 11612 : 2008: Clothing to protect against heat and flame. It is compliant with European Regulation 2016-425 on personal protective equipment, as certified by an accredited entity, whose contact details are included at the end of this document. The clothing meets the requirements of the general standards of protective clothing, EN ISO 13688: 2013, which include innocuousness, comfort, dimensional change, ergonomics, etc.

The clothing is carefully made with fireproof cotton and polyester blends and sewed to prevent splitting which could allow heat or flame direct contact with the skin.

Stitching has been reinforced wherever stress points are located.

The clothing is comfortable enough to be worn for an entire day's work.

**Use**

- Before use, carefully check the protective clothing has no signs of damage, regardless of whether it is new or used. Holes and tearing will reduce its protective qualities. Regular checks should be made to ensure the items are in good condition to ensure their effectiveness.
- The clothing must be worn closed from top to bottom to ensure effective protection against flame and heat when exposed to convective or radiant heat, and when in contact with molten metal. All pockets must be fully closed. The trouser legs should not be turned up at the ends.
- Alterations to the clothing, including shortening the length of trousers, adding patches, logos, etc. must be performed by the company, ELIS, as per regulations.
- This type of clothing offers protection of the body, arms and legs, but does not protect the head and face, hands or feet. If risk analysis of the workstation demonstrates the need for additional protection for the face, hands or feet, additional protective gear, compliant with regulations, must also be worn.
  - These items contain no substances which are toxic, cancer-causing, or harmful for the wearer. They meet the general requirements applicable to protective clothing, EN ISO 13688: 2013.
- Upper-body clothing should sufficiently cover the lower-body clothing in all circumstances, regardless of the wearer's posture, to ensure that no part of the body is exposed and the pocket openings on the trousers remain covered.
- To ensure this type of clothing provides maximum protection to the wearer, it is ESSENTIAL that full outfit is worn (coveralls or coat with trousers or overalls). The various items are made using similar fabrics compliant with the relevant European legislation and offer the same level of protection.

**Please note:**

- The clothing must not be worn for purposes other than those defined by the manufacturer.
- The clothing IS NOT SUITED for protection against molten aluminium splashes. Other suitable clothing should be worn in such cases.
- If the clothing has reflective or fluorescent components, UNDER NO CIRCUMSTANCES should it be considered as high-visibility clothing, which is subject to other standards.
- Wearing this equipment does not exclude the wearer from following basic safety rules. It should be remembered that safety cannot be guaranteed under all circumstances.
- This type of clothing is designed to protect against brief and accidental contact with electrical charges up to 100V. It does not provide protection against direct contact with electrical welding equipment. When the risk of electrocution is present, clothing with additional electrical insulation should be worn.
- Mechanical and chemical damage can reduce the effectiveness and lifespan of the clothing. Avoid contact with cleaning solvents, detergents, disinfectants and stainremovers.
- Deteriorated items cannot provide effective protection against ultraviolet light, particularly when used for arc welding. Risk analysis should be made to determine which category of clothing should be worn.
- Clothing dirtied with inflammable products may be considerably less fire resistant. Splashes of chemical products and inflammable liquids must be immediately removed.

If splashes of chemical or inflammable liquids occur, the wearer should remove the contaminated clothing and ensure the liquid has not come in contact with the skin. The clothing should then be cleaned or removed from use. The clothing must be regularly cared for to ensure it remains effective. It must not be stored without being cleaned. Dried traces of dirtiness should be removed regularly. If acids or similar substances are splashed on the clothing, it should be quickly and thoroughly rinsed in water. For toxic substances, the

clothing will require specific decontamination.

- Electrical and thermal insulation can be affected by humidity (liquid, steam, perspiration, etc.). High oxygen levels can also reduce protection against fire.

At the end of its useful life, the clothing can be recycled as fabric waste. The various items of clothing can be SOLD separately.

**Explanation of symbols and performance levels**

Clothing providing protection against heat and flame is marked as follows:

Welding and allied processes

EN/ISO 11611: 2007



Category 1 - A1/A2

Industrial heat

EN/ISO 11612 : 2008



A1/A2, B1, C1, D0, E2, FO

**Level of performance obtained according to EN/ISO 11611: 2007**

Property measured	Code or Category	Level of performance obtained	Requirements
Flammability (inflammation of item - surface)	A1	Compliant	≤ 2 s
Flammability (inflammation of item - edges)	A2	Compliant	≤ 2 s
Transfer of radiant heat (RHTI <sub>24</sub> )	Category 1	Compliant	≥ 7s
	Category 2	-	≥ 16s
Minor splashes of molten metal (number of drops of metal)	Category 1	Compliant	≥ 15 drops
	Category 2	-	≥ 25 drops
Electrical resistance		Compliant	> 10 <sup>5</sup> ohms
Tensile strength (fabric)		Compliant	≥ 400N
Resistance to tearing		Compliant	≥ 20N
Resistance of stitching (fabric)		Compliant	≥ 225 N
Dimensional change after washing		Compliant	± 3%

**Level of performance obtained according to EN/ISO 11612 : 2008**

Industrial heat - EN/ISO 11612: 2007	Code or Category	Level of performance obtained	Requirements
Flammability (flame on item surface)	A1	Compliant	≤ 2 s
Flammability (flame on item edge)	A2	Compliant	≤ 2 s
Transfer of convective heat (HTI <sub>24</sub> )	B1 to B3	B1	>4s < 10s
Transfer of radiant heat (RHTI <sub>24</sub> )	C1 to C4	C1	>7s < 20s
Large splashes of molten aluminium	D1 to D3	D0	-
Large splashes of molten iron	E1 to E3	E2	>100mg < 200mg
Contact heat	F1 to F3	F0	-
Thermal resistance electrical arc appendix F (4kA)		Compliant	
Resistance to stress (fabric)		Compliant	≥ 300N
Resistance to tearing		Compliant	≥ 15N
Resistance of stitching (fabric)		Compliant	≥ 225 N
Dimensional change after washing		Compliant	± 3%

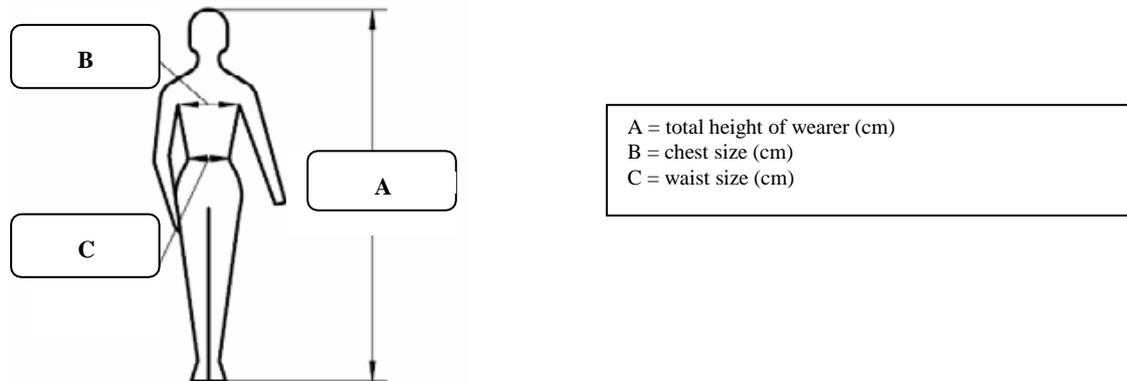
The clothing referred to in these specifications is compliant with the basic requirements of the European Regulation 2016-425 on personal protective equipment. The standard CE test carried out by an accredited entity demonstrated that this clothing responds to the following standards:

EN/ISO 11611: 2007 **category 1** – A1+A2 and

EN/ISO 11612 : 2008 with the performance levels: **A1/A2, B1, C1, D0, E2**  
 EN ISO 13688: 2013 for general requirements

**Sizes**

The sizes are indicated in accordance with EN ISO 13688 : 2013, with the following diagram stamped on the item:



Elis size	Chest size	Waist size	Height
0	66-74	78-86	154-198
1	74-82	86-94	154-198
2	82-90	94-102	154-198
3	90-98	102-110	154-198
4	98-106	110-118	154-198
5	106-117	118-129	154-198
6	117-129	129-141	154-198
7	129-135	141-147	154-198
8	135-141	147-153	154-198
9	141-147	153-159	154-198

**Maintenance**

Washing frequency is defined in accordance with the level of dirtiness, which varies based on work conditions. To avoid damage during cleaning, close all zips and Velcro fastenings.

This type of fabric can be cleaned in a home or industrial machine, and reduces 3% in size, in compliance with EN ISO 13688 : 2013

**Industrial maintenance**

- This depends on the washing program, "Cotton/Polyester" and "tunnel finish" drying program.

***Please note:***

Tunnel drying at 160°C does not affect the lifespan of the fabric if the usual industrial washing procedures are followed, in particular, residual humidity at the beginning of the tunnel and the actual temperature in the tunnel.

Notwithstanding the wearer, the clothing has a theoretical lifespan of 50 washes if the instructions for care on the label inside the clothing are followed.

**Home care**

- If the clothing has accessories that could affect normal cleaning (e.g. reflective strips, Velcro, etc.), the washing codes marked on the label are appropriate.
- Cleaning should include a prewash and main wash cycle, followed by a third cycle to allow for gradual cooling, and 3 to 5 rinse cycles to remove all traces of detergent.
- The machine should be loaded at no more than 75%.

## Washing codes

	Wash at or below 60°C
	No chlorine
	Moderate tumble dry
	Iron at or below 150°
	Do not dry clean

All items must be stored clean, flat, folded or hung on a hanger in a dry place without light.

They must be regularly checked to ensure no damage or wear and tear has occurred, which could affect the intended level of protection. If required, the protective clothing can be replaced or repaired to remain compliant with the relevant standards.

Contact details of the Accredited Entity that conducted the standard UE test (article 19: Regulation (UE) 2016-425))

Address: CENTEXBEL: ON No.493 - Technologiepark 7 - 9052 ZWIJNAARDE

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For all further information, please contact the manufacturer.

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