

Table 2

Instructions for use

SOFTSHELL Jacket art. 2-1900-345

Protective clothing, anti-electrostatic, flame retardant, for welders, protecting against hot factors, liquid chemicals and thermal hazards of an electric arc, with high visibility.

Intended use

The clothes have been qualified to the 2nd class according to EN ISO 11611:2015. Clothing intended for welding work using manual welding techniques with heavy formation of spatters and drops (table 1). It protects the employee against static electricity that may cause ignition in explosive atmosphere, short-term contact with flame, convective and radiation heat, molten iron and aluminum splashes, contact heat. In case of splash, protects against liquid chemicals (Typ PB [6] – table 2). Protective clothing used in work on electrical equipment protects the employee against the thermal effects of an electric arc (box test). Clothing provides visibility to the operators of vehicles or other mechanical machines in all lighting conditions, both in daylight and in the dark when illuminated by vehicle headlights Clothing meets the essential requirements for personal protective equipment contained in the Regulation of the European Parliament and of the EU Council 2016/425 of 9 March 2016 on personal protective equipment and in the standards: EN ISO 13688:2013 EN 1149-5:2018; EN ISO 11611:2015; EN ISO 11612:2015; EN 13034:2005+A1:2009; IEC 61482-2:2018, EN ISO 20471:2013/A1:2016.

EN 1149-5:2018	EN ISO 11612:2015 A1+A2 B1 C2 D3 E3 F2	EN ISO 11611:2015 Class 2, A1+A2	EN 13034:2005+ A1:2009 Typ PB[6]	IEC 61482-2:2018 APC = 2	EN ISO 20471:2013 /A1:2016 Class 2	(E 1435	ĺÌ
Protection against static electricity	Protection against heat and flame Resistance to: A1+A2 - limited flame spread - surface and edge ignition B1 - convective heat C2 - radiant heat D3 - molten aluminum splash E3 - molten iron splash F2 - contact heat	Protection during welding Class 2 – protection against more hazardous welding techniques and situations, causing higher level of spatter and radiant heat A1+A2 – limited flame spread – surface and edge ignition	Protection against accidental, small splashing of chemicals with low volume pressure, against which a complete liquid penetration barrier (at the molecular level) is not required. Type PB [6] - partial body protection	Protection against thermal hazards of an electric arc APC = 2 - protection against electric arc of current equal to 7 kA	2 - indicate class 2, were: - min.of background material is 0,50 m2; - min. of reflective material is 0,13 m2	Clothing meets the essential requirements for personal protective equipment, contained in the Regulation of the European Parliament and of the Council of the European Union 2016/425 dated 9 March 2016. The PPE is subject to the conformity assessment procedure to type based on internal production control plus supervised product check at random intervals (Module C2) under surveillance of notify body no. 1435.	Before using, read the contents of this instructions for use.

Table 1

Selection criteria for clothing for us	e in welding or allied processes	Usage requirements	Test results
(reference points)	Abrasion resistance	Class 3	
Selection criteria relating to the	Selection criteria relating to the environmental conditions	Tear resistance	Class 3
process		Tensile strength	Class 4 Class 2
		Puncture resistance	
Manual welding techniques with heavy formation of spatters and drops, e.g.:	Operation of machines, e.g.: - in confined spaces;	Repellency to liquids:	
- MMA welding (with basic or cellulose at overhead welding/cutting or in		H2SO4 30 %	Class 3
covered electrode);	comparable constrained positions.	NaOH 10%	Class 3
- MAG welding (with CO_2 or mixed		o-ksylen	Class 1
gases);		butan-1-ol (undiluted)	-
- MIG welding (with high current);		Resistance to penetration by liquids:	
- self-shielded flux cored arc welding;		H2SO4 30 %	Class 3
 plasma cutting; gouging; 		NaOH 10%	Class 3
- oxygen cutting;		o-ksylen	Class 3
- thermal spraying.		butan-1-ol (undiluted)	Class 3

Use

The Jacket should be used only with additional protecting garments, covering the rest of the user's body, presenting at least the same level of protection. Clothing should always be buttoned during use. For proper protection against static electricity, the user should be properly grounded. The electrical resistance between the human skin and the ground should be less than 108Ω, e.g. by wearing appropriate footwear on distracting or conductive floors. Clothing should not be unzipped and / or removed in flammable or explosive atmospheres and when handling flammable or explosive substances. Clothing is intended to be worn in Zones 1, 2, 20, 21 and 22 in which the minimum ignition energy of each explosive atmosphere is not less than 0.016 mJ. Clothing should not be used in oxygen enriched atmospheres and Zones without the prior approval of the safety engineer. Clothing during normal use (including bending) should completely cover all materials that do not meet the requirements of EN 1149-5:2018. When using clothing, acid or alkaline sprayed areas should be immediately flushed with a water. The effectiveness of the protection provided by clothing can be affected by: wear, damage, washing and possible contamination. For proper protection, it is recommended to use additional personal protective equipment, e.g. protective gloves, eye and face protection equipment, hoods, providing protection against hazards occurring during welding or work that is exposed to thermal hazards caused by electric arc. Do not use under garments made, for example, of polyamide, polyester or acrylic fibers that melt under the influence of an electric arc. The level of flame protection will be less if clothes are contaminated with flammable substances. The increase in oxygen content in the air will reduce the considerable protective properties of the garment against the effects of flame. Electrical insulation provided by clothing will be less when clothing is wet, soiled or soaked in sweat. In the event of accidental splashing of clothing with chemicals or flammable liquids, the user should immediately withdraw from the workplace and carefully remove clothing so that no part of the user's skin comes into contact with the chemicals. In the event of molten metal splashes, the user should immediately leave the workplace and remove clothing products, if clothing is worn close to the skin, it may not eliminate the total risk of burns. Protective clothing is only intended to protect against shortterm inadvertent contact with active parts of the arc welding circuit and additional layers of electrical insulation will be required when there is an increased risk of electric shock. Clothing is designed to provide only protection against short-term accidental contact with electrical wires with a voltage of approximately 100 V DC.

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Storage and transport

The clothing should be transport in original packaging (plastic bags), protecting against dirt, mechanical damage and getting wet. Store the clothing in a dry and well-ventilated place, away from heat sources. Do not store the clothing when it is dirty.

Repair

Each time before use, an employee intending to use clothing should inspect the clothing for damage. Clothing can only be repaired by the manufacturer or specialized facilities. Damaged items of clothing (pleats, flaps, front parts or sleeves) should be replaced. Fabrics and threads as well as missing fasteners

(buttons, adhesive tapes) used for repairs should be original, supplied by the clothing manufacturer. Clothing after repair should keep its original shapes and dimensions. ATTENTION: A faulty repair can result in the loss of protective properties of clothing.

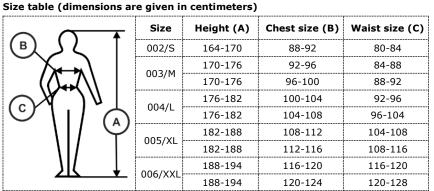
Warnings:

- Testing the properties of clothing, resulting from the requirements of the declared standards, confirmed after min. 5 maintenance cycles. The number of washes is not the only factor associated with the durability of clothing. The duration of use will depend on the conditions of use, storage conditions etc.
- Partial body protection Type PB [6] clothing has not been tested according to the complete clothing test (item 5.2 EN 13034:2005 +A1: 2009).
- In order to maintain protection against liquid chemicals, it is recommended to re-apply the finish after each maintenance cycle using impregnation agents, ie: Kreussler Hydrob-FC; BurnusHyChem Hydro-Stop; EcoLab Saprit Protect Plus. If a different agent is needed, prior contact with the clothing manufacturer is required.
- The personal protection equipment after use is a waste, which the user should properly classify and then transfer for disposal in accordance with applicable law.
- No allergenic substances have been found in the materials used to manufacture the clothing; however, if any allergic reactions are noticed, especially in the
 case of sensitive individuals, such a person should leave the working zone, take off the garment and consult a doctor.
- It is advisable to keep this manual for further reference.

EU Type Examination Certificate No. **113/2019/PPE/1435** issued by notified body no. **1435 – Sieć Badawcza Łukasiewicza - Instytut** Włókiennictwa, ul. Brzezińska 5/15, 91-103 Łódź.

EU Declaration of Conformity at: www.kegel.pl/ce

Composition: Fabric: Protal® 55%, Cotton 44%, Anti-static fiber 2% + Membrane: Polyester 100% + Fleece: Modacrylic 100%



In order to properly choose the size of clothing, use the information in the size table. Body

measurements should be made at the places marked in the figure below.

Body dimensions to the size of protective clothing

Maintenance

Do not wash clothing with other clothing. Use the following maintenance procedures:

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Maximum washing temp. 60°C – normal process	Do not bleach	Tumble drying possible – lower temperature. Max. exhaust temp. 60°C	Iron at max. sole-plate temperature of 110°C	Professional dry cleaning in tertachloroethene and all solvent listed for the symbol F, normal process