

Instructions for use

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

Jacket art. 2-3695-088

Trousers art. 2-5696-088

Bib-trousers art. 2-6697-088

Intendend use

The clothes have been qualified to the 1st class according to EN ISO 11611:2015. Clothing intended for welding work using manual welding techniques with light formation of spatters and drops (table 1). Protects the employee against static electricity that may cause ignition in explosive atmosphere, short-term contact with flame, convective and radiation heat, molten iron splashes and 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 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 1149-5:2018	EN ISO 11612:2015 A1+A2 B1 C1 E2 F1	EN ISO 11611:2015 Class 1, A1+A2	EN 1303 +A1:2009		47 IEC 61482-2:2018 APC = 1	CE 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 C1 - radiant heat E2 - molten iror splash F1 - contact heat	Class 1 – protection against lees hazardous welding techniques and situations, causing lower level of spatter and radiant heat A1+A2 – limited	accidental,small splashingagainst thermal hazards of an electric arc APC = 1 protection against which a complete level) is not required. Type PB [6] - partial body protectionagainst thermal hazards of an electric arc APC = 1 - protection against electric arc of current equal to 4 kArequirements for protective contained in the F the European Par of the Council of t Union 2016/425 d 2016. The PPE is s conformity procedure to typ internal product plus supervised pi at random interv C2) under surv		contained in the Regu the European Parliam of the Council of the E Union 2016/425 dated 2016. The PPE is subje	personal Jipment, lation of eent and uropean 9 March ect to the essment ased on control ct check (Module	Before using, read the contents of this instructions for use.	
	Table					Table 2		
		e in welding or allied			Usage requir	ements		ik badania
processes (reference points)				Abrasion resistance				Class 6
Selection criteria relating to the process Selection criteria relating to the environmental		the environmental co		ns Toncile strongth			Class 2 Class 5	
		Operation of machines,	Tenone or		re resistance		Class 5 Class 2	
formation of spatters and drops, e.q.:				Repelle	Repellency to liquids:			
- gas welding;		- plasma cutting machines;		H ₂ SO ₄ 30 %		0%	Class 3	
- TIG welding;		- resistance welding machines;			NaOH 10%		Class 3	
- MIG welding (with low current);		- machines for thermal		o-Xylen		Class 3		
- Micro plasma welding;		spraying;			Butan-1-ol		Class 3	
- brazing;				Resista	stance to penetration by liquids:			
- spot welding;					H ₂ SO ₄ 30 %		Class 3	
- MMA welding (with rutile-covered					NaOH 10%		Class 3	
electrode).					o-Xylen		Class 3	
-				Į	Butan-1	ol		Class 2

Use

Clothing should be used in a set e.g. a jacket with trousers or bib-trousers to protect the user's body as much as possible. 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 short-term 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

(plastic bags), protecting against dirt, mechanical damage and getting wet. Store the clothing in a dry and well-ventilated place, away from heat sources. Size table (dimensions are given in centimeters) 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.

Additional information:

- The properties of clothing, resulting from the requirements of the declared standards, has been number of washes is not the only factor associated procedures: 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. 07/2022/PPE/1435 issued by notified body no. 1435 - Sieć Badawcza Łukasiewicza -Instytut Włókiennictwa - Zakład Certyfikacji Textil-Cert, ul. Brzezińska 5/15, 91-103 Łódź.

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

Composition: Fabric: Cotton 75%, Polyester 24%, Anti-static fiber 1%

Body dimensions to the size of protective clothing

The clothing should be transport in original packaging 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.

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		60	
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_		Size	Height (A)	Chest size (B)	Waist size (C)
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\sum		48	170-176	92-96	84-88
		50	170-176	96-100	88-92
↔\\\		52	176-182	100-104	92-96
110	$\dot{\sim}$	54	176-182	104-108	96-104
	Ŷ	56	182-188	108-112	104-108
		58	182-188	112-116	108-116
	Ţ	60	188-194	116-120	116-120
	-	62	188-194	120-124	120-128

Maintenance

confirmed after min. 5 maintenance cycles. The Do not wash clothing with other clothing. Use the following maintenance

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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 150°C	Professional dry cleaning in tertachloroethene and all solvent listed for the symbol F, normal process