

Instructions for use

Insulated jacket art. 3-1891-140

Insulated bib-trousers art. 3-6891-140

Intended use

Protective clothing, protecting against liquid chemicals and cold, consists of jacket and bib-trousers indicated above. In case of splash, protects against liquid chemicals (Type PB [6] – table 1). Clothing designed to protect against the effects of a cold environment at a temperature equal to or lower than -50°C (temp. range given in Table 2 and Table 3). Clothing meets the applicable 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 342:2017, EN 13034:2005+A1:2009.

Use

Clothing should be used only as a set i.e. jacket together with bib-trousers. Clothing should always be buttoned during use. 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 etc. Wear only on garments and underwear, fastened with all fasteners. In order to properly protect the user against cold, cover the remaining parts of the body that not protected by clothing with appropriate means (footwear, hand protection and head protection). Clothing should be cleaned according to the manufacturer's instructions.

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.

Storage and transport

The clothing should be transported 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.

Additional information

- Clothing properties resulting from the requirements of the declared standards have been 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.
- Clothing does not protect against water penetration.
- 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.





 <p>EN 13034:2005 +A1:2009 Typ PB[6]</p>	 <p>EN 342:2017 0,425 (B) 2 X</p>	 <p>CE 1435</p>	
<p>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</p>	<p>Protective clothing Ensembles and garments for protection against cold I_{cler} 0,425 m² K/W (B) AP – class 2 WP – X* (resistance to water penetration) *X indicates that the clothing has not been tested</p>	<p>Clothing meets the requirements for PPE, contained in the Regulation of the European Parliament and of the Council of the European Union 2016/425. The PPE is subject to the conformity assessment procedure to type based on internal production control and supervised product check at random intervals (Module C2) under the notify body no. 1435.</p>	<p>Before using, read the contents of this instructions for use.</p>

Table 1

Usage requirements	Test results
Abrasion resistance	Class 6
Tear resistance	Class 4
Tensile strength	Class 6
Puncture resistance	Class 3
Repellency to liquids:	
H ₂ SO ₄ 30 %	Class 3
NaOH 10%	Class 3
Resistance to penetration by liquids:	
H ₂ SO ₄ 30 %	Class 2
NaOH 10%	Class 3

Table 2. Resultant effective thermal insulation of clothing I_{cler} and ambient temperature conditions for heat balance at different durations of exposure. Results given in Celsius scale (°C).

Insulation I _{cler} m ² K/W	Wearer standing			
	Air velocity			
	0,4 m/s		3 m/s	
	8h	1h	8h	1h
0,425	2,64	-14,59	10,39	-5,47

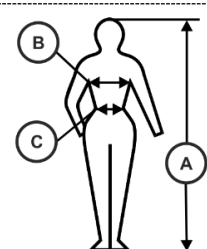
Table 3. Resultant effective thermal insulation of clothing I_{cler} and ambient temperature conditions for heat balance at different activity levels and durations of exposure. Results given in Celsius scale (°C).

Insulation I _{cler} m ² K/W	Wearer moving activity							
	medium 170 W/m ²				średnia 170 W/m ²			
	Air velocity							
	0,4 m/s		3 m/s		0,4 m/s		3 m/s	
	8h	1h	8h	1h	8h	1h	8h	1h
0,425	-12,66	-31,81	-2,66	-19,14	-33,71	-53,57	-19,41	-36,93

Body dimensions to the size of protective clothing






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.

Size table (dimensions are given in centimeters)

	Size	Height (A)	Chest size (B)	Waist size (C)
	002/S	164-170	88-92	80-84
	003/M	170-176	92-96	84-88
		170-176	96-100	88-92
	004/L	176-182	100-104	92-96
		176-182	104-108	96-104
	005/XL	182-188	108-112	104-108
182-188		112-116	108-116	
006/XXL	188-194	116-120	116-120	
	188-194	120-124	120-128	

Maintenance

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

 <p>Maximum washing temp. 40°C – normal process</p>	 <p>Do not bleach</p>	 <p>Tumble drying possible – lower temperature. Max. exhaust temp. 60°C</p>	 <p>Iron at max. sole-plate temperature of 110°C</p>	 <p>Professional dry cleaning in tetrachloroethene and all solvent listed for the symbol F, normal process</p>
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EU Type Examination Certificate No. **46/2021/PPE/1435** issued by notified body no. **1435 – Sieć Badawcza Łukasiewicz - Instytut Włókiennictwa**, ul. Brzezińska 5/15, 91-103 Łódź.

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

Composition: Fabric: Polyester 80%, Cotton 20% Insulated lining: Polyester 100%