



**MANUAL**  
This user manual needs to be read before using the products.

This product is in compliance with the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.



**WELDAS PRODUCT:**  
Long sleeve sweatshirt 31-1300  
Trousers 31-1600  
Neck protector 31-1950  
Balaclava 31-1980



Trade mark: **COOL FR™**

**Clothing type:** Antistatic, flame retardant clothing

**General:**

The above listed products meet the following requirements of standards:  
**EN ISO 13688:2013, EN ISO 13688:2013/A1:2021**

Protective clothing. General requirements

**EN 1149-5:2018**

Protective clothing. Electrostatic properties-Part 5: Material performance and design requirements.

**EN ISO 11612:2015**

Protective clothing. Clothing to protect against heat and flame.

**Minimum performance requirements:**

- limited flame spread - performance level A1+A2
- convective heat - performance level B1
- radiant heat - performance level C1
- molten iron splash - performance level E3
- contact heat - performance level F1



**Size:** see below and on the product label

**Additional information:**

The effectiveness of the protection provided by clothing may be influenced 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, and shoes to provide protection against hazards occurring during the work. The level of protection against flame will be reduced if the clothing is contaminated with flammable substances. An increase in oxygen content in the air will significantly reduce the protective properties of clothing against flame. The electrical insulation provided by clothing will be reduced when the clothing becomes damp, dirty or saturated with sweat. If chemicals, grease or flammable liquids are accidentally splashed on clothing, the user should immediately withdraw from the work area and carefully remove the clothing so that any part of the user's skin does not come into contact with the chemicals. In the event of molten iron splashes, the user should immediately leave the workplace and remove clothing. If the clothing is worn next to the skin, the risk of burns cannot be completely eliminated.

**Other important information:**

- Testing of clothing properties, resulting from the requirements of the declared standards, confirmed after 50 maintenance cycles.
- The materials used to produce clothing do not contain any substances that could cause allergic symptoms, however, if any allergic reaction is noticed, the user should leave the danger zone, take off the clothes and consult a doctor.
- It is recommended to keep this manual.

**Description and purpose of the clothing:**

Antistatic, flame retardant clothing consisting of long sleeve sweatshirt, trousers, balaclava and neck protector, intended to protect the user against:

- inflammation due to short-term contact with the flame,
- effects of convective heat, thermal radiation and contact heat,
- splashes of molten iron and sparks,

and for work in an environment where the ability to dissipate an electrostatic charge is required to prevent lightning that is capable of igniting. Clothing is used in spaces (Zone 1, 2, 20, 21 and 22) where the minimum ignition energy of an explosive atmosphere is not less than 0,016mJ.

Provides protection only when using a complete set of clothing covering the torso, arms, neck, head and legs so as to protect the user's body as much as possible and ground the user directly or by wearing appropriate footwear, in accordance with the manufacturer's instructions. The electrical resistance between human skin and earth should be less than 10<sup>6</sup>Ω, e.g. by wearing appropriate footwear on dissipative or conductive floors. Clothing should not be removed in flammable or explosive atmospheres or when handling flammable or explosive substances. The garment should not be used in oxygen-enriched atmospheres and Zone 0 environments without the prior approval of the safety engineer. During normal use (including bending), clothing should completely cover all materials that do not meet the requirements of EN 1149-5:2018.

**Materials used:**

60% modacrylic, 38% cotton, 2% antistatic thread, 200g/m<sup>2</sup>.

**Warranty:** This product is warranted against manufacturing defects. If the product can be repaired, it needs to be done by the manufacturer.

**Remove:**

Once this product can't be used anymore, it is the responsibility of the user to remove this product in an environmental way. Disposal according to local regulations.

**Washing:**

The clothing retains antistatic, flame retardant and thermal properties (caused by molten iron splashes, convection heat, contact heat, radiant heat) for up to 50 washes. Follow the following maintenance procedures:



Wash at a temperature not exceeding 40 °C.

Do not use bleaching agents that release chlorine.

Drum drying is allowed.

Iron at a temperature not exceeding the bottom plate of the iron 110°C.

Dry cleaning allowed.



**Time of use:**

The service life depends on the degree of wear and use intensity in the respective application areas and is max. 60 months after manufacturing date. The date of manufacture is indicated on a label at the inside of the product.

**Storage and transport:**

Store in a dry and airy room, away from heat sources and at temperatures over 5° Celcius. Do not store dirty clothes. Do not stack higher than 5 cartons on 1 pallet.

Transport clothes in original packaging (plastic bags), protecting them against dirt, mechanical damage and getting wet.

**Ageing:**

If washing, drying and ironing has been applied or not stored according to the above instruction, the ageing of this product will be influenced negatively.

**Sizing:** In order to properly select the size of clothing, use the information contained in the size tables. Body measurements should be taken in the places marked in the tables below.

**Sizing for long sleeve sweatshirt 31-1300 and trousers 31-1600**

	XS	S	M	L	XL	2XL	3XL	
	44	46	48	50	52/54	56/58	60/62	
	A	158	164	170	176	182	188	194
	B	80	90	100	105	110	120	130
	C	72	82	88	94	100	114	122

A, B: for long sleeve sweatshirt 31-1300  
A, C: for trousers 31-1600

**Sizing for balaclava 31-1980**

31-1980 L	48-55 cm	38-45 cm
31-1980 XL	50-62 cm	42-52 cm

**Sizing for neck protector 31-1950**

31-1950	45-60 cm	30-50 cm

**Attention: Declaration of conformity, test report, certificate, manual: [www.weldas-ce.com](http://www.weldas-ce.com)**

Above listed products have been tested and certified at: Sieć Badawcza Łukasiewicz-Łódzki Instytut Technologiczny Marii Skłodowkiej-Curie Street 19/27, PL 90-570 Łódź, Poland (Approved EU No. 1439).

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