



EN ISO 11611:2015 is a harmonized standard according to the official EU journal

**Clothing type: Head protection**

**Size:** see imprint on the product

**Intended use:**

**General:**  
This product is intended to be used for all arc welding processes like MMA, MIG/MAG, TIG, micro plasma, spot and gas welding as well as plasma and oxygen cutting, gouging, brazing and thermal arc spraying. Because applications vary, it is the user's responsibility to identify the right product for each application.

**Identified hazards:**  
With the welding processes of intended use the following hazards are identified: flames, spatter of molten material, radiant heat as well as short term electrical shock.

**High voltage:**  
This product protects against short term electrical shock and not against long term high voltages! Welding and cutting machines can cause these so follow the safety instructions of the machines used as well! When there is an increased risk of shock or electrical live parts additional electrical isolation will be required as is indicated under 6.10 of the EN11611 for protection against live electrical conductors up to 100 V = (DC).

**Body protection in all positions:**  
This product protects in certain positions of working and welding. It could be possible that extra protection products are required. It is the responsibility of the user to identify that.

**Additional garments:**  
Additional garments shall meet at least Class 1 of the EN11611.

**Improper use:**

**Level of protection:**  
The level of protection will be reduced if the welders protective clothing is contaminated with flammable materials.

**Level of oxygen:**  
Increase of oxygen in the air will reduce considerably the protection of the welders protective clothing against flame. Care should be taken when welding in confined places. Air enriched with oxygen will be dangerous!

**Electrical isolation:**  
The electrical isolation provided by the clothing will be reduced when the clothing is wet, dirty or soaked in sweat.

**Use of 2-piece clothing:**  
When 2-piece clothing is used both items shall be worn together to provide the specified level of protection

**Additional body protection during welding:**  
Additional body protection used with this product during welding must meet the appropriate EN standard for welding hazards.

**Limitations for use:**  
This flame retardant cotton work clothing to be used for general labour activities as well as welding. User has to see to it that all closures are closed specially for use with welding applications and the choice of the right size. If molten metal stick to the clothing, the user needs to remove the clothing immediately. If the user observes symptoms similar to sunburn, UV radiation come through the product. In that case, the product needs to be repaired or replaced. The user should think about it that there might be more protective layers needed in the future.

**Materials used:**  
All products: 305 gr./m2 flame retardant fabric is used.  
23-6680, 23-6690, 23-7766: hook and loop closures are used.

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

**Health information:** The pH, Chromium (VI) and PCP levels of all materials have been tested and meet CE health standards. Coloring: coloring is done by using natural materials

**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, drying and ironing:**  
Washing: The flame retardant characteristics of the product will be valid for 5 washings at 40°C.  
No bleach or acid should be used, just standard washing detergents.  
A dimensional change can occur after washing. After cleaning, the clothing should be inspected.  
Drying: line drying.  
Ironing: do not iron.

**Durability:** The service life depends on the degree of wear and use intensity in the respective application areas. Temporal information is therefore not possible.

**Climate according to clause 6.10:**  
Conditioning and testing of the samples was carried out at a temperature of (20 ±2) °C and relative humidity of (85 ± 5) %.




**Storage:**  
Store dry, dark and at temperatures between 10° and 20° Celcius. Do not stack higher than 5 cartons on 1 pallet.


**Ageing:**  
changing of the product performance over time during use or storage  
Note 1 to entry: Ageing is caused by a combination of several factors, such as the following:  
- cleaning, maintenance, or disinfecting process;  
- exposure to visible and/or ultraviolet radiation;  
- exposure to high or low temperatures or to changing temperatures;  
- exposure to chemicals including humidity;  
Each product contains a label with a unique code for traceability of the production process.

- exposure to biological agents such as bacteria, fungi, insects, or other pests;
- exposure to mechanical action such as abrasion, flexing, pressure, and strain;
- exposure to contaminants such as dirt, oil, splashes of molten metal, etc.;
- exposure to wear and tear.


**Sizing according to: EN ISO 13688 (in CM).**



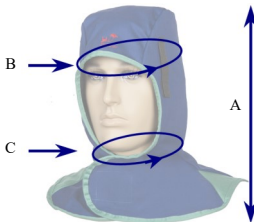
	(CM)
23-1***	56
23-2***	57
23-3***	58
23-4***	59
23-5***	60
23-6***	61
23-7***	62



	(CM)
23-36**	46-68



	(CM)
23-8000L	56-59
23-8000XL	59-62



	A	B	C
23-6680	41	64	42-53
23-6680XL	44	68	52-65
23-6680/LV	62	64	42-53
23-6690	41	64	42-53
23-7766	44	68	52-65



The following explains the pictogram marked on this product:



General safety requirements

Subclause	Requirement	Class 1	Class 2
6.2	Tensile strength: woven outer textile material Tensile strength: leather	400 N 80 N	400 N 80 N
6.3	Tear strength: woven outer textile material Tear strength: leather	15 N 15 N	20 N 20 N
6.4	Burst strength: test area of 7,3 cm <sup>2</sup> Burst strength: test area of 50 cm <sup>2</sup>	200 kPa 100 kPa	200 kPa 100 kPa
6.5	Seam strength: textile material Seam strength: leather	225 N 225 N	225 N 225 N
6.6	Dimensional change of woven textile materials Dimensional change of knitted textile materials	≤ ± 3 % ≤ ± 5 %	≤ ± 3 % ≤ ± 5 %
6.7	Flame spread Procedure A - mandatory Procedure B - optional	ISO 15025, Procedure A (surface ignition) ISO 15025, Procedure B (edge ignition) No specimen shall permit any part of the lowest boundary of any flame to reach the upper or either vertical edge. No hole formation <sup>a</sup> No flaming or molten debris Mean afterflame ≤ 2 s Mean afterglow ≤ 2 s	ISO 15025, Procedure A (surface ignition) ISO 15025, Procedure B (edge ignition) No specimen shall permit any part of the lowest boundary of any flame to reach the upper or either vertical edge. No hole formation <sup>a</sup> No flaming or molten debris Mean afterflame ≤ 2 s Mean afterglow ≤ 2 s
6.8	Impact of spatter	15 drops	25 drops
6.9	Heat transfer (radiation)	RHTI 24 W ≥ 7,0	RHTI 24 W ≥ 16,0
6.10	Electrical resistance	> 10 <sup>5</sup> Ω	> 10 <sup>4</sup> Ω
6.11	Requirements for leather: fat content	≤ 15 %	≤ 15 %

<sup>a</sup> For ISO 15025:2000, Procedure B, this requirement is not applicable



Testing and certification of this product is done according to EN ISO 11611:2015 by TÜV Rheinland LGA Products GmbH, Tillystraße 2, D-90431 Nürnberg, Germany (notified body number 0197).

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

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