

Fire Fox™

FR COTTON CAPS

23-*514 FR Cap



Fire Fox™

EN ISO 11611:2015
CLASS 1/A1+A2
TÜV BP 60148742 0001
TÜV 60341060 001



**EN ISO 11611:2015
CLASS 1/A1+A2**

23-*515 FR Cap



**Choose the best size for all caps:
* = 1, 2, 3, 4, 5, 6, 7**

Size	Articlenumber	
7	23-1xxx	56 cm.
7 1/8	23-2xxx	57 cm.
7 1/4	23-3xxx	58 cm.
7 3/8	23-4xxx	59 cm.
7 1/2	23-5xxx	60 cm.
7 5/8	23-6xxx	61 cm.
7 3/4	23-7xxx	62 cm.

COTTON CAPS

23-*503 Camouflage



23-*507 USA flag



23-*524 Wild



Fire Fox™

FR BEANIE

23-8000 FR Beanie



- Often used in combination with helmet
- High comfort and flexibility
- 305 gr./m² flame retardant cotton



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**EN ISO 11611:2015
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23-8000L 56-59 cm. 
23-8000XL 59-62 cm.

Fire Fox™

FR COTTON DOO-RAGS

23-3612 FR Doo-Rag



23-3613 FR Doo-Rag



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**EN ISO 11611:2015
CLASS 1/A1+A2**

23-3611 FR Doo-Rag



23-3615 FR Doo-Rag



- Often used in combination with helmet
- High comfort and flexibility
- Sweatband integrated in the front of the Doo-Rag
- 305 gr./m² flame retardant cotton

All Doo-Rags, one size fits all:

46-68 cm.

COTTON DOO-RAGS

23-3601 Camouflage



23-3602 Wild



23-3604 USA flag



23-3606 Happy Hour



23-3607 Paradise



23-3609 European flag



Fire Fox™

FR HELMET HOODS

23-6680, 23-6680XL

23-6680/LV

23-6690

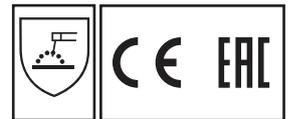


- Connectable to helmet gear
- Hook and loop closure
- 305 gr./m² flame retardant cotton



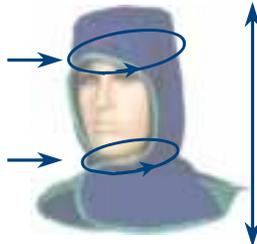
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**EN ISO 11611:2015
CLASS 1/A1+A2**

23-6680 / 23-6680LV / 23-6690: 64 cm.
23-6680XL: 68 cm.



23-6680: 41 cm.
23-6690: 41 cm.
23-6680XL: 44 cm.
23-6680/LV: 62 cm.

23-6680 / 23-6680LV / 23-6690: 42 - 53 cm.
23-6680XL: 52 - 65 cm.

Multiple sizes and lengths

Arc Knight®

LEATHER HELMET HOOD

23-6630



- Hook and loop closure
- Black split cow leather with 520 gr./m² flame retardant cotton
- Available in size L and XL
- KEVLAR® 3 ply



EN ISO 11611:2015
CLASS 2/A1+A2
TÜV BP 60133477 0001
TÜV 60142905 001



**EN ISO 11611:2015
CLASS 2/A1+A2**



TURMOflex®

WINTER HELMET LINERS

23-7766



- Connectable to helmet gear
- Hook and loop closure
- 305 gr./m² flame retardant cotton
- COMFOflex® lining



TURMOflex®

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CLASS 1/A1+A2
TÜV BP 60148742 0001
TÜV 60341060 001



**EN ISO 11611:2015
CLASS 1/A1+A2**

23-7711



before
washed

23-7701



23-7702



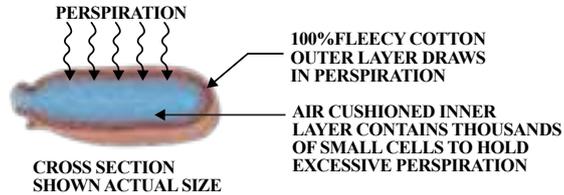
23-7733



SWEATSOpad®

HELMET COMFORTER

- Helmet pad and sweatband combined in one piece air cushioned *SWEATSOpad*®
- Flame retardant
- No more "helmet head"!
- No more slippage!
- No more sweat!



20-3100V, 20-3100V/17



5 x

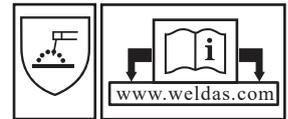
20-3100V
20-3100V/17

↔
22 cm.
17 cm.

SWEATSOpad®

EN ISO 11611:2003
CLAUSE 6.6
TÜV AK 60013119 0001
TÜV 21120493 001

CE



20-3200V



5 x

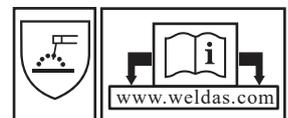
20-3200V

↔
25 cm.

SWEATSOpad®

EN ISO 11611:2003
CLAUSE 6.6
TÜV AK 60013119 0001
TÜV 21120493 001

CE



20-3300V



5 x

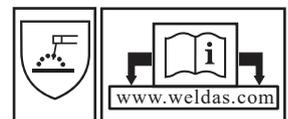
20-3300V

↔
14 cm.

SWEATSOpad®

EN ISO 11611:2003
CLAUSE 6.6
TÜV AK 60013119 0001
TÜV 21120493 001

CE



LEATHER HELMET CAPS AND BIBS

44-7180



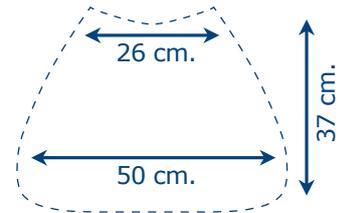
- Grain leather helmet cap
- Black grain cowhide
- Will fit over the helmet gear and can be attached with hook and loop to the top of the helmet gear.

44-7181



- Grain leather back neck protection
- Black grain cowhide
- Made to be attached with hook and loop to the cap (= art.nr. 44-7180)

- Dimensions:

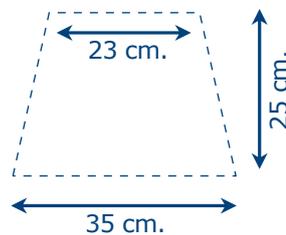


44-7182



- Grain leather front neck protection
- Black grain cowhide
- Can be attached with hook and loop to the helmet inside or outside

- Dimensions:

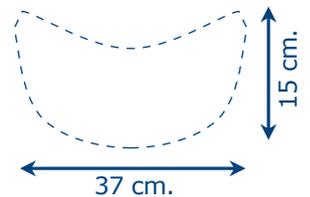


44-7184



- Split leather Front neck protection
- Black split cowhide
- Can be attached with hook and loop to the helmet inside or outside

- Dimensions:



ACCESSORIES

44-7111



- Foldable inspector mask
- Fits glass: 110 x 50 mm.
- Glass not included

KEVLAR® 3 ply √

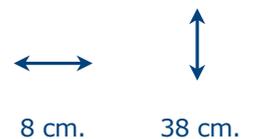


44-7110



- Electrode bag with hanging system
- To be filled with max. 2 kg. electrodes
- Double leather construction

KEVLAR® 3 ply √



SELECTION CRITERIA

In order to make the right choice in a type and/or model of a personal protection product the user should make for himself selection criteria in order to come up with the best choice for his/her situation.

Weldas wants to help with that by giving you a number of selection criteria to start by making the right choice. Please read for that the 2 following pages carefully.

General selection criteria for leather products such as welding gloves and welding clothing

Choosing the right product is always important to make the workplace productive but also safe.

The factors to consider include one or more of the following arguments:

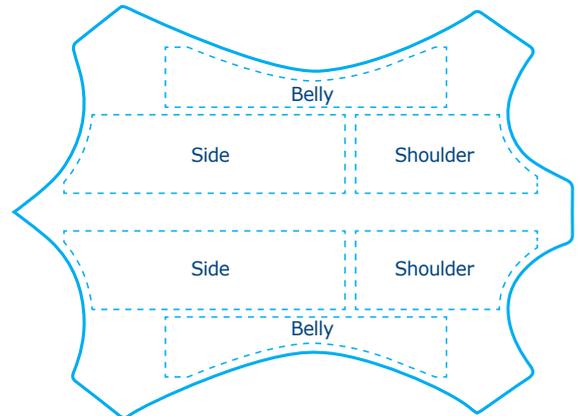
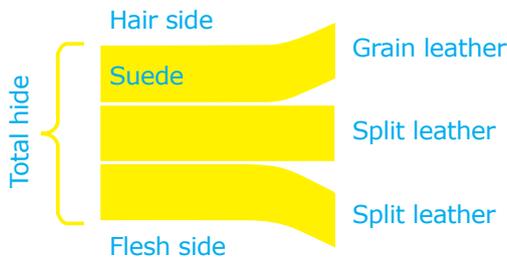
- Protection arguments: resistant to heat, flame, molten splashes, UV, electricity and punctures.
- Health arguments: values of pH, Chromium, PCP or other substances that needs to be within limits.
- Durability arguments: values of abrasion resistance, tensile strength, tear resistance, heat related dimensional change resistance, reinforced seams and stress points as well as thread strength and flame resistance.
- Comfort arguments: the right sizing and fit, dexterity, fingertip sensitivity, weight, sweat vapor transmission and absorption and climate and oil resistant.

Type of leather selection criteria for leather products such as welding gloves and welding clothing:

Type of leather	Features
Split cow leather	Heat & flame resistant, material breaths because of open structure, also low priced
Grain cow leather	Pliable and strong, water and oil resistant
Suede (reversed) pig leather	Soft and comfortable and mostly lower priced than other leathers
Grain deer leather	Fit and dexterity and, with that, very good comfort as well as water and oil resistant
Grain goat leather	Fit and dexterity, light weight and very good comfort as well as water and oil resistant
Grain bison leather	Fit and dexterity, very good comfort, high mechanical value as well as water and oil resistant

Leather grades and terminology:

Different portions of the hide of an animal have different characteristics: the side offers the best strength and most constant quality, the shoulder offers good strength and pliability, the belly is the lowest in quality but also the most economical.



Choice of thumb design:

Straight thumb	Wing thumb	Keystone thumb
For extra sensitivity and/or extra welding gun grip	For seamless palm durability	For comfortable fit
<i>Note on thumb/palm design: extra durability and/or cut resistance can be achieved by adding an extra reinforcement around thumb and/or on palm of the glove.</i>		

Remark: the choice of materials and design for welding gloves and clothing but also for other products out of the Weldas product program always depend on what the applicable European norm desires. For that reason our products are tested and certified by a, by the European Union approved, test and certification laboratory. All test reports and certificates can be found on our special CE website:

www.weldas-ce.com

Weldas offers a lot of information through its catalog, website and other means of publication in order to help the user to make the right choice of product for its personal protection but it is and will always be the responsibility of the user what product he/she does choose.

INFORMATION ON EUROPEAN NORMS

In 1989 the council of the European community agreed on the directive 89/686/EEC which requires employers to use the appropriate personal protective equipment (PPE). As of April 21, 2018 the Regulation (EU) 2016/425 repealed the directive 89/686/EEC. All products used for personal protection must be marked with the appropriate basic CE marking and extended if the applicable norm does ask for it and according to it's intended use. The regulation recognizes 3 levels of protection and the products to go with these levels:

Category I

Category I includes exclusively the following minimal risks:

- (a) superficial mechanical injury;
- (b) contact with cleaning materials of weak action or prolonged contact with water;
- (c) contact with hot surfaces not exceeding 50 °C;
- (d) damage to the eyes due to exposure to sunlight (other than during observation of the sun);
- (e) atmospheric conditions that are not of an extreme nature.

Category II

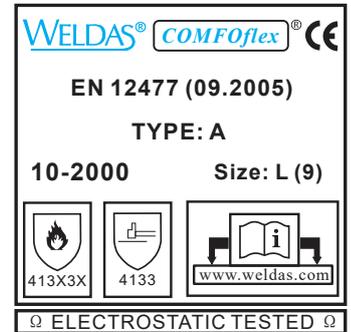
Category II includes risks other than those listed in Categories I and III;

Category III

Category III includes exclusively the risks that may cause very serious consequences such as death or irreversible damage to health relating to the following:

- (a) substances and mixtures which are hazardous to health;
- (b) atmospheres with oxygen deficiency;
- (c) harmful biological agents;
- (d) ionising radiation;
- (e) high-temperature environments the effects of which are comparable to those of an air temperature of at least 100 °C;
- (f) low-temperature environments the effects of which are comparable to those of an air temperature of – 50 °C or less;
- (g) falling from a height;
- (h) electric shock and live working;
- (i) drowning;
- (j) cuts by hand-held chainsaws;
- (k) high-pressure jets;
- (l) bullet wounds or knife stabs;
- (m) harmful noise.

Example of imprint of a Weldas® certified glove:



Basic norms and pictograms used for personal protection:

EN 420 norm on sizing of gloves: see page 9 of this catalogue.

EN 388 norm on mechanical risks for gloves:

Digit	Test Resistance	Level 1	Level 2	Level 3	Level 4	Level 5	
1st	Abrasion (# cycles)	100	500	2000	8000	-	
2nd	Blade Cut (index)	1,2	2,5	5,0	10,0	20,0	
3rd	Tear (Newton)	10	25	50	75	-	
4th	Puncture (Newton)	20	60	100	150	-	
5th	TDM Cut resistance (Newton)	A	B	C	D	E	F
		2	5	10	15	22	30

EN 407 norm thermal risks for gloves:

Digit	Test Resistance	Digit	Test Resistance
1st	Burning behaviour	5th	Small splashes of molten metal
2nd	Contact heat		
3rd	Convective heat	6th	Large quantities of molten metal
4th	Radiant heat		

EN 12477 norm on welding gloves and allied processes:

Minimum requirements according to EN...	Type A Minimum Rating	Type B Minimum Rating
Electrical Insulation	pr1149-2	R _Z ≥10 ⁶ Ω
Abrasion Resistance	EN 388 2	500 cycles
Blade Cut Resistance	EN 388 1	Index 1,2
Tear Resistance	EN 388 2	25 N
Puncture Resistance	EN 388 2	60 N
Burning Behaviour	EN 407 3	2
Contact Heat Resistance	EN 407 1	100° C
Convective Heat Resistance	EN 407 2	HTI≥7
Small Molten Splash Resistance	EN 407 3	25 Droplets
Dexterity (pick up of rod dia.)	EN 420 1	≤11mm

EN 11611 norm on welding clothing and allied processes:

Requirement(s)	Class 1	Class 2
Tensile strength — woven outer textile material — leather		400 N 80 N
Tear strength		20 N
Dimensional change of woven textile materials Dimensional change of knitted textile materials		≤ ± 3 % ≤ ± 5 %
Flame spread * : For ISO 15025:2000, Procedure B, this requirement is not applicable.	ISO 15025:2000, Procedure A, (surface ignition) ; ISO 15025:2000, Procedure B, (edge ignition) No flaming to the top or either side edge; No hole formation a; No flaming or molten debris Mean afterflame ≤ 2 s ; Mean afterglow ≤ 2 s	
Impact of spatter	15 drops	25 drops
Heat transfer (radiation)	RHTI 24 W 7	RHTI 24 W 16
Burst strength	200kPa	
Seam strength — textile material — leather	225 N 110 N	
Electrical resistance	>10 ⁵ Ω	
Innocuousness	See 6.11	
Leather	Fat content: ≤ 15 %	