

# ELECTPRO®

## ELECTRIC ARC FLASH PROTECTIVE CLOTHINGS

An electric arc explosion is the energy discharge in the form of heat and light that flows through the air between two non-tangential conductors. For this reason, arc studies contain many risks that affect human health negatively. To remove these risks, special protective clothings manufactured according to the 89/686 / EEC Personal Protective Equipment should be preferred, which provide high level of protection.

ELECTPRO® electric arc flash protective garments are in category III, according to Personal Protective Equipment Directive 89/686 / EEC and manufactured according to EN Standards performance requirements.

To reduce potential risks;

- Usage limits of EN standards, efficiency and design information should be known.
- The most suitable personal protective equipment should be selected according to working conditions.
- Complementary accessories should be used to protect whole body against electric arc.

Model	EN 61482 - 1 - 2		EN 1149-3/5	ATPV (cal/cm <sup>2</sup> )	Page
	Level 1	Level 2			
ELECTPRO® S1L ALX 145	✓		✓		33
ELECTPRO® G1L ALX 250	✓		✓		33
ELECTPRO® G2L CVC 275		✓	✓		34
ELECTPRO® G2L ARC/A		✓	✓		34
ELECTPRO® G2L ULTRASOFT 900		✓	✓	63	35
ELECTPRO® G2L ULTRASOFT 900 HOOD		GS-ET-29	✓	51	35
FYRTEX® UW 50	✓		✓		41



IEC / EN 61482 -1-1  
IEC / EN 61482 -1-2  
IEC 61482 -2

Protective clothing against the thermal hazards of an electric arc • Part 1-1: Test methods  
Method 1: Determination of the arc rating (ATPV or EBT50) of flame resistant materials for clothing

Protective clothing against the thermal hazards of an electric arc • Part 1-2: Test methods  
Method 2: Determination of arc protection class of material and clothing by using a constrained and directed arc (box test)

Protective clothing against the thermal hazards of an electric arc • Part 2: Requirements



EN ISO 11612

Protective clothing • Clothing to protect against heat and flame for industrial purposes  
Minimum performance requirements



EN 1149-5

Protective clothing • Electrostatic properties • Material performance and design requirements

GS ET 29

Supplementary requirements for the testing and certification of face shields / hoods for electrical works



Protective clothings against electric arc are certified according to IEC 61482-2 standard. According to IEC / EN 61482-1-2 standard, there are two levels of protection, Level 1 (4 kA) and Level 2 (7 kA). Level 2 is the highest level that can be reached for protection against electric arc. Also according to IEC / EN 61482-1-1 standard ATPV (cal / cm<sup>2</sup>) value is determined. ATPV value is needed in high voltage lines.

The EN ISO 11612 standard is a certification standard such as the IEC 61482-2 standard and covers joint performance tests. However, according to the IEC / EN 61482-1-2 test standard, the arc protection class also needs to be determined additionally. The EN 1149-3 / 5 standard is used to reduce the risk of accidents that may occur due to discharging the load in the environment where explosive gas may be present, while antistatic fibers in the fabric content are used to minimize the risk of accidents.

ELECTPRO® electric arc protective garments; protect the upper and lower body including the neck, arms up to the wrists and legs to the ankles according to the standards. Industrial work and electrical arc work involve variety of risks, so the rest of the body must be protected.

Complementary equipments that can be used together with ELECTPRO® garments;

- Flame retardant underwear manufactured according to EN 11612 standard,
- Arc flash protective helmet,
- Arc flash protective hood / visor,
- Arc flash protective gloves,
- Dielectric boots.



**ELECTPRO® ARC PROTECTOR ARAMID  
G1L ALX 250**

%65 Lenzing® FR • %22 Aramid • %12 PA • %1 Antistatic Fiber  
250 g/m<sup>2</sup>

(Jacket / Short Jacket - Trousers) Size: XS - 4XL



A1  
B1  
C1  
E1  
F1

EN ISO 11612



EN 1149-3/5

CE  
CAT III



IEC 61482 - 2  
IEC / EN 61482 - 1 - 2  
Class 1 : 4 kA



Color Options



**ELECTPRO® ARC PROTECTOR ARAMID  
S1L ALX 145**

%64 Lenzing® FR • %30 Conex® • %5 Twaron® • %1 Antistatic Fiber  
145 g/m<sup>2</sup>

(Shirt) Size : XS - 4XL



A1  
B1  
C1  
E1  
F1

EN ISO 11612



EN 1149-3/5

CE  
CAT III



IEC 61482 - 2  
IEC / EN 61482 - 1 - 2  
Class 1 : 4 kA



**New**

**ELECTPRO® ARC PROTECTOR COTTON  
G2L CVC 275**

%75 Cotton FR • % 23 PES • % 2 PA (Double layered) 275 g/m<sup>2</sup>

Proban® Treated

(Jacket / Short Jacket - Trousers) Size : XS - 4XL



A1  
B1  
C2  
F1

EN ISO 11612



EN 1149-3/5

CE

CAT III



IEC / EN 61482 - 1 - 2  
IEC 61482 - 2  
Level 2 : 7 kA

**PROBAN®**



**New**

**ELECTPRO® ARC PROTECTOR ARAMID  
G2L ARC/A**

%65 Lenzing® FR • % 22 Aramid • % 12 PA • %1 Antistatic Fiber 250 g/m<sup>2</sup>

%64 Lenzing® FR • % 30 Conex® • % 5 Twaron® • %1 Antistatic Fiber 145 g/m<sup>2</sup>

(Jacket / Short Jacket - Trousers)  
Size : XS - 4XL



A1  
A2  
B1  
C1  
F1

EN ISO 11612



EN 1149-3/5

CE

CAT III



IEC / EN 61482 - 1 - 2  
IEC 61482 - 2  
Level 2 : 7 kA





New

ELECTPRO® ARC PROTECTOR  
G2L ULTRASOFT 900

%88 Cotton FR • %12 PA 440 g/m<sup>2</sup>

%100 Cotton FR Denim 475 g/m<sup>2</sup>

(Jacket - Trousers) Size : XS - 4XL



A1  
B1  
C1

EN ISO 11612

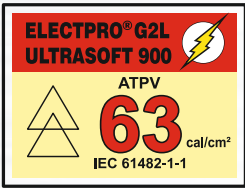


EN 1149-3/5

CE  
CAT III



IEC 61482 - 2  
IEC / EN 61482 - 1 - 2  
Level 2 : 7kA



WESTEX  
Ultrasoft

Westex  
Indura®



New

ELECTPRO® ARC PROTECTOR  
G2L ULTRASOFT 900 HOOD

%88 Cotton FR • %12 PA 440 g/m<sup>2</sup>

%100 Cotton FR Denim 475 g/m<sup>2</sup>

(Visor + Hood)



A1  
B1  
C1

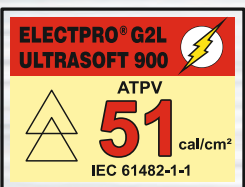
EN ISO 11612



EN 1149-3/5

CE  
CAT III

Class 2  
GS ET 29  
DIN EN 166  
DIN EN 170



WESTEX  
Ultrasoft

Westex  
Indura®





## SIZE CHART

Size (cm)	Jacket				Short Jacket				Trousers		
	Chest	Arm	Shoulder	Length	Chest	Arm	Shoulder	Length	Waist	Inner Leg	Length
S 46/48	56	59	17	78	56	60	17	67	46	75	103
M 50/52	60	61	18	80	60	62	18	71	50	76	106
L 54/56	64	62	19	82	64	63	19	73	54	77	109
XL 58/60	68	63	20	84	68	64	20	75	58	78	112
XXL 62/64	72	65	21	86	72	65	21	76	62	80	115

Size (cm)	Coverall				Shirt			
	Chest	Arm	Inner Leg	Length	Chest	Arm	Shoulder	Length
S 46/48	56	59	71	150	54	59	16	78
M 50/52	60	61	72	155	58	61	17	80
L 54/56	64	62	73	160	62	62	18	82
XL 58/60	68	63	74	165	66	63	19	84
XXL 62/64	72	65	76	170	70	65	20	86

TOLERANCE  $\pm$  % 2

Prepared according to EN 340/EN 13688 Standard.