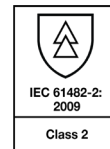


SIOEN

Workwear Arc cl 2



Workwear with high arc protection



Utility companies, factories and industrial plants usually contain heavy equipment where electronic switchboards can cause electric arcs or flashovers. Professionals working in the power generation or network/distribution industry are also often exposed to the risk of electric arcs, near high voltage cables, underground, etc.

What is an electric arc?

Arcs are low-impedance connections in an electrical system that cause unwanted electrical discharge through the air. As a result, there is a rapid rise in temperature (up to 19,000 degrees Celsius) and air pressure between electrical conductors. This causes an explosion known as an electric arc.

Protective clothing is a crucial part of arc protection to prevent flashovers (the transmission of fire) from causing injury or life-threatening situations. There are specific standards for protection against thermal risks from electric arcs. The box test or "arc-in-a-box" (IEC 61482-1-2) is the test method used in Europe. An arc is generated from one direction (the box) by short circuiting with 4 kA for class 1 (low simulated arc exposure) or 7 kA for class 2 (high simulated arc exposure). In addition to protection against the thermal risks of an electric arc there may also be a need for protective clothing with higher visibility, anti-static properties, etc.

SIO-SAFE™ SUPRA

Sioen Sio-Safe™ Supra collection






As a safety manager it is quite a task to predict the risks of an electric arc. Therefore Sioen developed a collection of workwear according to IEC 61482-1-2 class 2, with a high protection against electric arcs. This protection is 100% all round, both at the front and the back of the garment. In addition to the high protection against the thermal risks of an electric arc, this collection meets 4 to 5 additional European standards.



Our Sio-Safe™ Supra collection includes a work jacket and work trousers in 3 colour combinations: navy blue, fluo yellow/navy blue and fluo orange/navy. The fabrics we use are very light, flexible, breathable and moisture regulating, which ensures optimal wearing comfort. The Sio-Safe™ Supra jackets and trousers are also shrink and pilling resistant and the reinforced seams contribute to a longer lifespan and higher resistance to wear.

The Sio-Safe™ Supra collection includes 6 standard items. The Godern and Hanfeld models are single-colour navy blue with a total fabric weight of only 400 g/m². With the same ultralight 2-layer fabric combination we also developed the models Lobau and Karden in a fluo yellow/navy blue version. For the Pathal and Leste models in fluo orange/navy blue we use a pleasant and comfortable fabric combination of 470 g/m². Alongside is the complete overview of these 6 articles, including the applicable European standards for each article. Further specifications and technical datasheets of these workwear articles can be found on our website www.sioen-ppc.com.



				
IEC 61482-2: 2009	EN ISO 11612: 2015	EN ISO 11611 2015	EN 1149-5: 2008	EN 13034: 2005 +A1:2009
Class 2 ATPV 22,0 cal/cm²	A1 A2 B1 C1 E1 F1	Class 1 - A1/A2		Type PB [6]







Godern - 057VA2PIT



Jacket with
ARC protection (Cl 2)





Hanfeld - 058VA2PIT



Trousers with
ARC protection (Cl 2)



			
IEC 61482-2: 2009	EN ISO 11612: 2015	EN ISO 11611 2015	EN 1149-5: 2008
Class 2 ATPV 22,0 cal/cm²	A1 A2 B1 C1 E1 F1	Class 1 - A1/A2	

	
EN 13034: 2005 +A1:2009	EN ISO 20471: 2013 +A1:2016
Type PB [6]	

			
IEC 61482-2: 2009	EN ISO 11612: 2015	EN ISO 11611 2015	EN 1149-5: 2008
Class 2	A1 B1 C1 E1 F1	Class 1 - A1	

	
EN 13034: 2005 +A1:2009	EN ISO 20471: 2013 +A1:2016
Type PB [6]	



Lobau - 059VA2PIT

Hi-vis jacket with
ARC protection (Cl 2)

Karden - 060VA2PIT

Hi-vis trousers with
ARC protection (Cl 2)



Pathal - 061VA2PFD

Hi-vis jacket with
ARC protection (Cl 2)

Leste - 062VA2PFD

Hi-vis trousers with
ARC protection (Cl 2)

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