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ArcPro™ Face Screen Fitted with Carrier and Chin Guard User Information

Nanotechnology Arc Face Screen for Arc Flash Protection DIN EN 166:2001, DIN EN 170:2002 & GS-ET-29:2010
Designed to meet ANSI Z87.1-2003

An electric Arc Flash is a fault current, e.g. generated by a short-circuit traveling through ionized air. Together with tremendous amounts of convective heat, an arc flash produces large quantities of electromagnetic radiation (i.e. extremely high levels of ultraviolet radiation (UV), infrared radiation (IR) and high energy visible light). The explosively expanding heat generates toxic air, extreme noise (i.e. explosion bang) and a rapidly progressing pressure wave – most probably accompanied by flying debris (e.g. fragments, molten metal).

An arc flash incident usually is caused by a system fault or a handling mistake in a high current electrical environment, regardless whether this is a low, medium or high voltage system.

With the ArcPro system you are protected by high technology Personal Protection Equipment (PPE) minimizing the effects of an arc flash accident to your face and eyes, when correctly selected and used. To be properly protected you must carefully read this information before use!

General Warnings:

- Do not over expose to sunlight
- Do not use for welding
- Do not expose to high radiant heat sources for long periods of time
- Surface may get hot when exposed to electromagnetic radiation
- Replace when exposed to chemicals
- Replace if damaged by mechanical impact
- Only use as a kit
- Only use original replacement parts
- Make sure that your work place is sufficiently illuminated

**Field of Application:**

The ArcPro system, together with additional PPE appropriate for the level of protection, permits the user to work at live parts or remain in the vicinity of live parts. The ArcPro system only provides safety if used as intended. Do not use the ArcPro system for electric arc welding exposures.

Only mount the ArcPro system to a helmet that is approved for an arc flash at the maximum expected level. In case of any doubt, contact manufacturer.

Description:

The ArcPro system consists of a ArcPro face screen in a choice of 2 shades (Light Green or Light-Medium Green) with a permanently attached chin guard and carrier.

The ArcPro system only provides full protection against the thermal and mechanical hazards of an arc flash when it is completely assembled with all components (face screen with permanently attached chin guard and carrier) and is worn together with additional PPE appropriate for the level of protection.

Usage:

Always check the ArcPro system components before use. Make sure the ArcPro face screen is securely fastened to the carrier and chinguard.

The ArcPro Face Screen must be in the deployed position when working at live parts or in the vicinity of live parts (live working). Assure that the gap to your neck is minimized. For 360° protection add a hood or balaclava.

ArcPro System Information:

S506S57 - Arc Protection Class 2 and VLT Class 0 products as per GS-ET-29 (see Standard information and CE Marking), i.e. they provide the highest arc flash protection at highest VLT class according to GS-ET-29. They provide the maximum light transmittance and color recognition. Under typical working conditions additional lighting may not be required. Nevertheless check your own color recognition before using this product under your particular working condition.

S512S57 - are Arc Protection Class 2 and VLT Class 1 products as per GS-ET-29 (see Standard information and CE Marking). They exceed the specification of the highest arc flash protection class according to GS-ET-29 and are designed to maximize color perception and visible light transmittance. Due to variations in working condition please evaluate the need for additional lighting and check your own color recognition before using this product.

NOTE:

The ArcPro system is designed to protect against the mechanical and thermal hazards of an arc flash if the ArcPro system and further PPE are selected in accordance to the workplace related hazards and risks. However, it does not substitute prescription glasses, other eye & face PPE, respirator masks or further PPE required for sufficient protection at a particular workplace.

Cleaning:

Clean and inspect the ArcPro system after each use. Clean the ArcPro Face Screen with a damp cloth unless heavily soiled. Should further cleaning be required, clean with mild soap and water and pat dry. Do not separate the chin guard from the face screens or carrier!

Storage and Transportation:

For best results store and transport the ArcPro system in a protective bag, in a dark clean, dry environment for up to 5 years. The storage temperature should be between 0°C and 35°C and the operating temperature -10°C and 45°C.

Maintenance, Repair and Replacement:

The ArcPro system must be replaced if:

- the product is scratched or damaged
- the product has been exposed to an arc flash
- the product has been exposed to chemicals
- the product has been damaged by mechanical impact
- the product has reached its normal life span (see Lifetime of Product)
- the product has been exposed to high heat or over exposed to sun light
- the product has been exposed to fire for long periods of time *

* Damage may not be visible to the end user.

ATTENTION: The protection against the thermal and mechanical hazards of an arc flash can only be provided by using original ArcPro system. Do not disassemble/remove the chin guard from the face screen or carrier!

Lifetime of Use:

Inspect and replace any damaged or worn components. Never reuse the ArcPro system if it has been in an arc flash incident. In consideration of the stipulations of this document, the normal life span of the ArcPro system is 2 years when used outdoors and 3 years when used indoor (see maintenance section above)*

Standards and CE marking for S506S57 and S512S57 ArcPro Systems:

S506S57 = DIN EN 166:2001 & 170: 2002 and GS-ET-29: 2010 2C-1.2 CENTURION 1 B 8-2-0 3

S512S57 = DIN EN 166:2001 & 170: 2002 and GS-ET-29: 2010 2C-1.4 CENTURION 1 B 8-2-1 3

2	UV filter
C	Improved color recognition
1.2	Shade number (> 74,4 % VLT)
1.4	Shade number (74,4 % > VLT > 58,1 %)
CENTURION	Centurion Safety Products
1	Optical class
B	Medium energy impact (increased robustness (S) + high speed steel ball test at 120 m/s passed)
8	Resistance to short circuit electrical arc
2	Class 2 Open-Box test passed at 423 kJ/m ² ~ 10,1 cal/cm ² as per GS-ET-29
0	Transmittance Class 0 (VLT > 75 %) as per GS-ET-29
1	Transmittance Class 1 (50 % < VLT < 75 %) as per GS-ET-29
3	Protection against splashes of liquids
CE	CE Mark
1883	ID number of Notified Body (required for Cat. III products according to Annex II of the PPE Directive 89/686/EEC)

Hazard Assessment:

The user must perform a Hazard Risk Assessment to determine the level of exposure and need. This task can be accomplished with the proper training and software. According to this Hazard Risk Assessment, the ArcPro system shall be combined with further arc flash protective PPE such as helmets, garments, gloves, etc.

Warning:

Eye protection against high-speed particles that are worn over standard ophthalmic spectacles may transmit impact, hence creating a hazard to the wearer.

Materials, which may come into contact with the wearer's skin, could cause allergic reactions to susceptible individuals.

Failure to follow these instructions can result in a permanent impairment of sight or other serious personal injury.

CE 1883

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