

## ARC FLASH SUIT

Arc flash is a phenomenon where a flashover of electric current leaves its intended path and travels through the air from one conductor to another, or to ground. The results are often violent and when a human is in close proximity to the arc flash, serious injury and even death can occur.

Arc flash suits protect electrical workers from serious injuries or sicknesses that are caused from electrical and other common at-work hazards. To protect themselves from injury, or even death, workers should wear Protective Personal Equipment (PPE) as their last line of defence. The arc flash suit is arguably the most important component of PPE. It protects the majority of the worker's body from the effects of an arc flash.

### Types of Arc flash suit

- 8cal
- 25cal
- 40cal

## ARC FLASH SUIT - 8CAL



### Features

- This suit is made up of single layer fabric.
- Arc flash suit is made up of inherent flame resistance woven fabric.
- Fabric is made up of 49% Modacrylic, 45 % Cellulose, 5% P-Aramid and 1% Antistatic -240 GSM.
- Garments used for Arc Flash suit are sewn with inherently flame resistance threads.
- Fire resistant Hook and loop is provided in the jacket for closing purpose.
- Extra layer of protection is provided at shoulder, this layer is made up of outer layer material.
- Cuff is provided for better grip at wristlet. It is made up of 100% Nomex III A knitted fabric.
- Fire resistant elastic along with buckle and adjuster is provided for the adjustment of trouser as per the user requirement.



- Also fire resistant hook & loop for waist & bell adjustment is given.
- Bib is provided at the front in trouser for the extra protection.
- Pockets are provided on either sides of bib overall.
- ATPV: 11 Cal/cm<sup>2</sup>

## Components

- Jacket
- Bib overall - Trouser
- Helmet with 8cal face shield
- Electrical Gloves - Class 0
- Di-electric boot
- Bag

## Approvals

- **Arc flash suit - 8cal inclusive of jacket & trouser**  
as per EN 11612:2015, EN ISO 13688:2013 & EN 61482-2:2020 and notified body number **CE** 2895
- **Safety Helmet** - ANSI Z89-1:2014-class E, EN 397:2012
- **Face Shield** - 8cal/cm<sup>2</sup> according to ASTM F2178
- **Electric gloves** - Class 0, compliant to EN 60903:2003
- **Di electric boot** - EN ISO 20345:2011, en 50321:1999

## ARC FLASH SUIT - 25CAL



### Features

- This suit is made up of two layer fabric.
- Arc flash suit is made up of inherent flame resistance woven fabric.
- Both layer fabric are made up of 49% Modacrylic, 45 % Cellulose, 5% P-Aramid and 1% Antistatic -240 GSM.
- Garments used for Arc Flash suit are sewn with inherently flame resistance threads.
- Fire resistant zipper along with Hook and loop is provided in the jacket for closing purpose.
- Extra layer of protection is provided at shoulder, this layer is made up of outer layer material.
- Cuff is provided for better grip at wristlet. It is made up of 100% Nomex III A knitted fabric.
- Fire resistant elastic along with buckle and adjuster is provided for the adjustment of trouser as per the user requirement. Also fire resistant hook & loop for waist & bell adjustment is given.



- Bib is provided at the front in trouser for the extra protection.
- Pockets are provided on either sides of bib overall.
- ATPV: 33 Cal/cm<sup>2</sup>

## Components

- Jacket
- Bib overall - Trouser
- Helmet with 25cal face shield & hood
- Electrical Gloves - Class 3
- Di-electric boot
- Safety goggles
- Bag

## Approvals

- **Arc flash suit - 8cal inclusive of jacket & trouser**  
as per EN 11612:2015, EN ISO 13688:2013 &  
EN 61482-2:2020 and notified body number **CE**<sup>2895</sup>
- **Safety Helmet** - EN 397:2012, EN 50363:2002, EN 13063-1
- **Face Shield** - 25cal/cm<sup>2</sup> according to ASTM F2178
- **Electric gloves** - Class 3, compliant to EN 60903:2003
- **Di electric boot** - EN ISO 20345:2011, en 50321:1999

## ARC FLASH SUIT - 40CAL



### Features

- This suit is made up of three layer fabric.
- Arc flash suit is made up of inherent flame resistance woven fabric and non-woven fabric.
- The outer and the inner fabric are made up of 49% Modacrylic, 45 % Cellulose, 5% P-Aramid and 1% Antistatic -240 GSM.
- Middle fabric is a secondary heat barrier. It is spun lace non-woven fabric made up of 80% metaramid & 20% para aramid.
- Garments used for Arc Flash suit are sewn with inherently flame resistance threads.
- Fire resistant zipper along with Hook and loop is provided in the jacket for closing purpose.
- Cuff is provided for better grip at wristlet. It is made up of 100% Nomex III A knitted fabric.
- Extra layer of protection is provided at shoulder, this layer is made up of outer layer material.



- Fire resistant elastic along with buckle and adjuster is provided for the adjustment as per the user requirement. Also fire resistant hook & loop for waist & bell adjustment is given.
- Bib is provided at the front in trouser for the extra protection.
- Pockets are provided on either sides of bib overall.
- ATPV: 46 Cal/cm<sup>2</sup>

## Components

- Jacket
- Bib overall - Trouser
- Helmet with 40cal face shield & hood
- Electrical Gloves - Class 4
- Di-electric boot
- Balaclava
- Goggles
- Bag

## Approvals

- **Arc flash suit - 8cal inclusive of jacket & trouser**  
as per EN 11612:2015, EN ISO 13688:2013 &  
EN 61482-2:2020 and notified body number **CE** 2895
- **Safety Helmet** - ANSI Z89-1:2014-class E, EN 397:2012
- **Face Shield** - 40cal/cm<sup>2</sup> according to ASTM F2178
- **Electric gloves** - Class 4, complaent to EN 60903:2003
- **Di electric boot** - EN ISO 20345:2011, en 50321:1999