



**HICARE**<sup>TM</sup>  
PROTECTIVE WEAR

**ARCDEFENCE**<sup>TM</sup>

Electrical Protection Workwear

**ARC FLASH  
SUIT**

**40 CAL**



Arc Defence<sup>TM</sup> by Hicare light weight Arc Flash Protection, an arc flash occurs when the electrical current flows outside its intended path, through an air gap, to another conductor. With this in mind, you can see that an arc flash can occur anywhere that the electrical current has a chance to escape. Arc flash suits are full-body protective garments required for electrical workers to protect them from the heat and energy released during an arc flash.

Introducing advance light weight, breathable 40 Cal Arc flash suits are personal protective garments (PPE) designed to protect individuals working with electrical panels. Be sure to use an arc flash suit When working with electrical equipment or in high arc-risk environments, use only an arc flash suit that meets these ratings.

This helps to give the user an extra second of protection in order to avoid a secondary explosion or flash in the working area.

## Material Composition

Multi-layer Inherent Arc Flash Resistance Fabric 550 GSM.

## Design

Garment made of Inherent Arc Flash resistance fabric along with the zip and velcro closure and covered with flap.

Trouser come with zipper and elastic, for better comfort and flexibility.

Mandarin collar for maximum neck protection.

Elasticized side waistband for a better fit and comfort.

Sleeve cuffs have adjustable straps with Velcro closure.

Class E Helmet with Visor tested to ASTM F 2178-12 Cal rated.

Throughout the garment's manufacturing, FR thread is employed.

Various designs and patterns are available to meet your needs.

## Features

Highly Durable – Provides ultimate protection against an ARC Flash's Hazard and flame.

Made from Arc Flash Resistance material.

Full Body Protection – (garment made of IFR blend, hence reduce Arc injury)

Great comfort – breathable soft to wear and fantastic to the touch.

The FR Properties will remain constant till the last washing cycle.

Sewing with IFR thread.

## Kit Content

Jacket and Trouser

Class E Helmet with Paulson Face Shield

Fabric Gloves

Storage Bag.







## Applications

- 1 TRANSMISSION LINE MAINTENANCE
- 2 LT AND HT PANEL MAINTENANCE
- 3 ELECTRICIANS FOR WORKWEAR
- 4 SUBSTATION WORK
- 5 PLANT SHUT DOWNS AND ENERGIZED EQUIPMENT REPAIR
- 6 POWER GENERATION UNIT

## Tested/Certification



EN 11612

Arc Flash Clothing complies EN ISO 11612: 2015 Protective Clothing - Clothing for Heat and Flame Protection.



EN 1149

Electrocution, Arc flash, and Arc blast injuries and fatalities.



F1959/F

For FR fabrics, this testing method is used to calculate findings (Arc ratings). Arc ratings are a measure of the fabric's thermal protection in an arc flash.



2621

In an electric arc exposure, standard practice is used to evaluate the response characteristics & design integrity of arc rated finished garments.



1506

Flame-resistant and electric arc performance specifications people who are exposed to flame and electric arc flash must wear arc rated protective clothing.



2178

Standard test method for determining the arc rating and standard approval for eye and face protection products.



NFPA 70E, Standard for Electrical Safety in the Workplace, provide the protection From electrocution, arc flash, and arc blast injuries and fatalities.



IEC 61482-1-1

IEC 61482-1-1 – Live working – Protective clothing against the thermal hazards of an electric arc.

# HRC 2

# INHERENT ARC PROTECTION

LIGHT WEIGHT

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