



The NEW ELECTROSTATICS Induction Suit

The ONLY Induction Suit on the Market

Electric Field Induction from energized AC lines KILL more than 30 workers every year in the U.S.

Electrostatics has developed the **Electrostatics Induction Suit** specifically to reduce worker injury and fatalities from electric field induction to "ZERO."

How does it work?

- Energized AC overhead lines generate *electric fields*, the higher the AC voltage, the higher the electric field intensity.
- Electric fields radiate out from energized AC lines.
- When a conductive object (de-energized overhead line, metal building, worker, aerial lift, fence, etc.) is positioned within the energized AC line's electric field a simple capacitor is created, and
- The conductive object is charged (energized) with *electric field* voltage up to 50 kV.
- If a worker contacts both the energized conductive object and a grounded object, current, possibly lethal, flows through the worker, but
- If the worker is wearing an **Electrostatics Induction Suit** the current flows through the Induction Suit and not the worker.



But what if the AC overhead line to be worked is de-energized and grounded?

- Grounding an overhead line can reduce the electric field hazard if a very low resistive ground source (typically 10 Ω or less) is available, however
- A very low resistive ground source is NOT often available, allowing the electric field induction hazard to remain within the worksite

WARNING: Before using the Electrostatics Induction Suit, lines and equipment to be worked must be de-energized, a clearance issued, and grounded in a way that develops an Equipotential Zone, per 29 CFR OSHA 1910.269(n). The Electrostatics Induction Suit cannot be used on un-grounded lines and equipment.

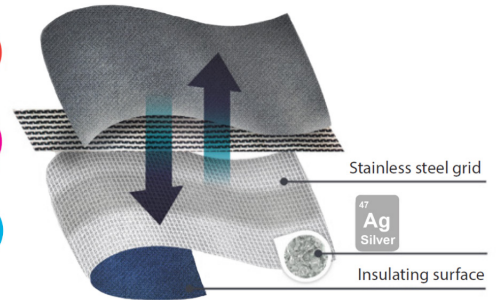
Does it really work? YES!

- The Electrostatics Induction Suit can safely shunt up to 50 A of Electric Field Induction current around the worker.
- Accredited measurements show 99.985% of the Electric Field Induction current flows through the suit.
- At 50 A continuous Electric Field Induction current 49.993 A flows through the suit; 7 μ A through the worker; well below the 100 μ A of human perception.

ELECTROSTATICS has developed the industry's finest, state-of-the-art, **Electrostatics Induction Suit**.

The Fabric System consists of three elements:

- ✓ A unique Double-Sided Conductive Fabric – the highest level of shielding factor (70 dB), ATPV level of 10 cal/cm², oil and water resistance, isolation of its conductive side from the human body;
- ✓ A highly conductive tape – extremely high level of conductivity (electrical resistivity below 0.1 Ohm/m, rated for 50 Amps current);
- ✓ Nomex reinforcing pads – protection of the highly conductive tape from mechanical damage, additional mechanical strength of the elbows, knees and other parts of the suit that are highly subject to abrasion.



The whole Fabric System is resistant to human sweat and multiple washing.

Option to add your company name and logo to the back of the suit.

CHOOSE FROM:



Meets and Exceeds IEC 60895-2020 with less than 1.0 Ω overall garment resistance. Meets and Exceeds IEC 61482 with a ATPV of 10 cal/cm².

1: Conductive Jacket and Trousers Suit
Conductive jacket with hood; and bib and brace, or trousers.

OR:

2: Conductive Overalls with Hood



BOTH WITH:

- Conductive shielding gloves
- Conductive shielding socks

FEATURES OF THE SET



Equipotential bonding leads* between jacket and gloves



Equipotential bonding leads* between jacket and bib-and-brace or trousers



Equipotential bonding leads* between bib-and-brace and boots or socks



Equipotential bonding leads between conductive coverall and arc protective upper jacket.



Conductive shielding face mesh

ACCESSORIES MIGHT BE ORDERED SEPARATELY



Summer and winter conductive gloves



Winter boots made of leather or felt, with fur or in-socks



Summer boots



Nomex® underwear

* All conductive components of the set are connected by equipotential bonding leads



We also offer our Live-Line Training and Energized Work Methods Program—rated #1 in the industry.

For more information or ordering, contact:

The leader in electric utility industry safety and training services

ESCI Inc.,
PO Box 7210, Mesa, AZ 85216

360-676-8088

email: Barry@esci.net • www.esci.net