

OBERON

# Arc Flash Suit User Guide

Storage, Use, Care and Maintenance



OBERON  
SAFETY



## Oberon Introduction

Oberon is the leading arc flash personal protective equipment (PPE) manufacturer in the world. Located in North Dartmouth, Massachusetts, USA, Oberon manufactures arc-rated products used for protection from arc flash hazards. As a leader, Oberon provides innovative new shield and fabric technologies. Since manufacturing the first ever arc flash face shield in 1985, Oberon has continued to provide leading edge technologies including its True Color Grey (TCG)<sup>™</sup> technology.

## Care and Use Training

Standards for electrical safety in the workplace including NFPA 70E and CSA Z462 require care and maintenance of arc rated clothing and suits. Oberon has created this User's Guide to assist with training on care and use of its products.

Requirements include:

- Pre-use inspection
- Manufacturer's instructions
- Storage
- Cleaning

## Caution

Flammable contaminants will reduce the thermal performance of any flame resistant arc rated garment. Wash garments to ensure that no grease, oil, soiling or other flammable contaminants are present when the garments are worn. Repairs must be made with the same thread and fabric and may void warranty.

**Do not reuse Oberon arc flash PPE after an arc exposure.**

## Important Warning

Oberon arc flash suits do not provide insulation from electric shock. Oberon arc

flash suits when properly selected and worn are designed to provide protection from burn injuries resulting from an electrical arc flash in accordance with ASTM F1506 and NFPA 70E. It is important to note that Oberon arc flash suits will provide limited or no protection against sound, pressure, projectiles and respiratory hazards which may result from an arc flash incident. Face protective products which are effective against the arc flash hazard can reduce visibility. NFPA 70E calls for the use of additional lighting if work conditions require.

## Remember

Always perform an arc flash risk assessment to determine the potential arc flash incident energy exposure level.

Only use arc flash PPE with an arc rating that is equal to or greater than your potential arc flash incident energy level.

## Compliance

Oberon arc flash PPE is compliant with every applicable Standard necessary as per NFPA 70E and CSA Z462.

This includes:

- ANSI/ISEA 125 National Standard for Conformity Assessment of Safety and Personal Protective Equipment
- ASTM F2178 Standard Test Method for Determining the Arc Rating of Face Protective Products
- ANSI Z87.1 Practice for Occupational and Educational Eye and Face Protection
- ASTM F1506 Standard Performance Specification for Textile Material for Wearing Apparel for Use by Electrical Workers Exposed to Momentary Electric Arc and Related Thermal Hazards
- ASTM F1959 Standard Test Method for Determining the Arc Rating of Materials for Clothing

- ASTM F2621 Standard Practice for Evaluating Response Characteristics of Safety Products in an Electric Arc Exposure
- ASTM F1930 Standard Test Method for Evaluation of Flame-Resistant Clothing for Protection Against Fire Simulations Using an Instrumented Manikin
- ASTM F1701 Standard Specification for Unused Rope with Special Electrical Properties
- ANSI Z89.1 Standard for Industrial Head Protection
- CSA Z94.1 Industrial protective headwear - Performance, selection, care, and use



Hood



Coat



Bib-Overalls

## Arc Flash Suit Hood

- Generous fit with the least possible resistance to movement and minimal discomfort while in use.
- Clear True Color Grey (TCG)<sup>™</sup> hood shield window.
- Hood shield window made of polycarbonate material.
- Hood shield window provides high impact and high mass protection for maximum protection from shrapnel, projectiles and flying debris.
- ANSI Z87.1+ (plus symbol indicates high impact models).
- Optional hood ventilation system (HVS) for fresh air to optimize worker comfort. External components constructed of FR plastic to prevent component ignition in the event of an arc flash accident.
- Optional LED head lamp for task lighting necessary in most work tasks.



## Arc Flash Suit Coat and Bib-Overalls

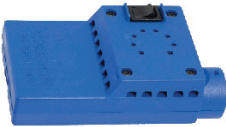
- Constructed of 100% arc rated inherently flame resistant fabric. See label for fiber breakdown.
- Compliant label includes:
  - Manufacturer
  - Arc Thermal Performance Value (ATPV) or E<sub>BT</sub> rating in calories per square centimeter
  - Care instructions
  - Fabric identifier and fiber content (e.g., oz weight/sq yard)
  - Garment size
  - Manufacturer tracking code
- Meets requirements of Performance Specification ASTM F1506
- Each item (Hood, Coat and Bib-Overall) are labeled with individual serial numbers with numbers and corresponding bar code for inventory, tracking and total accountability.
- Coat includes double closure: Nomex® Velcro and Zipper Tape, and High Temperature Delrin® Zipper.
- Bib-Overalls include a 26" leg zipper for ease of donning over work boots.



Hood with Ventilation System - Side



Hood with Ventilation System - Back



Fan Unit



Fan Delivery System

## Hood Ventilation System

Pocket mounted fresh air ventilation system includes a high precision fan motor which provides over 8 Cubic Feet per Minute (CFM) of fresh air around the head and face and will run for 6 - 8 hours on 4 AA batteries (not included).

Hood ventilation system comes complete with a durable and inherently flame resistant plastic housing, fresh air bladder, and reinforced plastic spiral hose.



Hood with LED Lamp



LED Lamp

### LED Lamp

Adjustable hood light provides “hands free” task lighting while working in dark or low light conditions.

The lamp easily clips onto the front of the hood, providing 70 lumens of light with a 146 hour burn time on 3 AAA batteries (not included).



Hood with Straps - Front, Back and Side Views

### Hood Straps

A set of two hood straps helps to secure the hood to the chest by holding down the sides of the hood to ensure the arc is unable to go up and underneath, which is a safety concern at higher incident energy levels.

Hood straps are standard on the TCG 140 cal/cm<sup>2</sup> arc flash hoods, and available on every other Oberon hood as an additional safety measure if required.



Coat with Escape Strap - Back, Inside and Side Views

## Escape Strap

Arc flash suits can be equipped with an Escape Strap. This system provides an alternative to using a rescue stick. The Escape Strap is designed like a firefighter drag rescue device (DRD) when used for emergency response to help rescue a worker.

The Escape Strap functions could include:

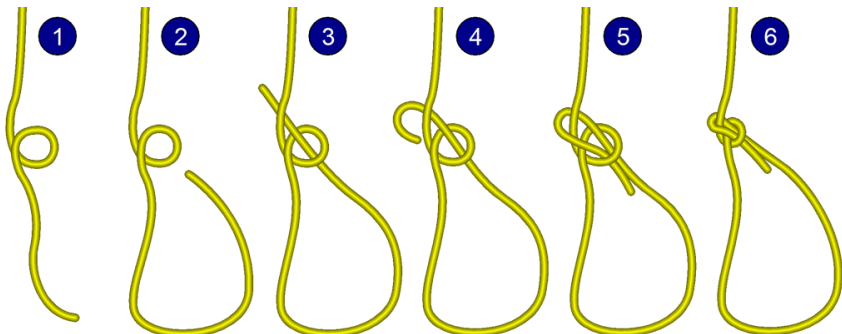
- Communication
- Provide Emergency Direction
- Drag Rescue Device

The Escape Strap consists of a Kevlar® cord that extends 20' from the back of the suit, that can be wrapped and stowed away in a small pocket at the back of the suit.

The Escape Strap can be extended to any length necessary by tying a bowline knot on the end.

Demonstration Videos:

- [How to use an Escape Strap](#)
- [Escape Strap in action](#)



Bowline Knot Guide

## Arc Flash Apparel Sizing Guide

### 1. USE A FABRIC MEASURING TAPE

**Chest:** Measure around the chest just under the arms and across the shoulder blades.

**Waist:** Measure around the natural waistline.

**Height:** Measure the total height of the worker. You can tape one measuring tape to a wall and have the worker stand up straight against it.

### 2. SELECT THE SIZE

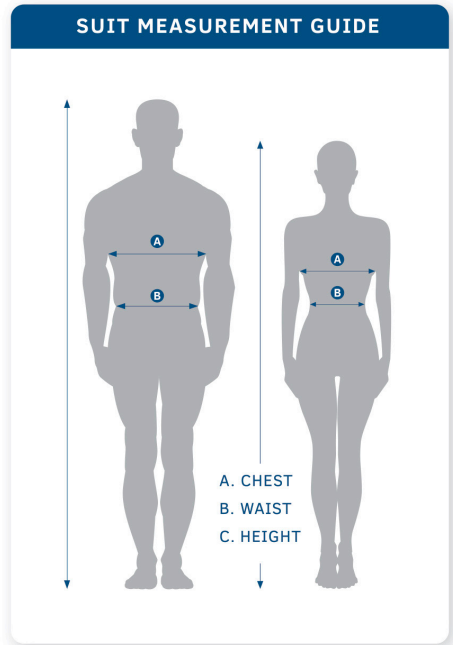
After measuring the worker select the size using the tables below. Each of these numbers represents the maximum measurement per size.

Always round up and use the larger of either Chest or Waist.

### 3. SELECT THE HEIGHT

All suits are sold as a Regular size. Order bib-overalls for adjustable height.

Extra Short, Short, Tall and Extra Tall sizes are custom made to order.



Regular Standard size is 5'10" to 6'1" for bib-overalls and 5'6" to 6'0" for coveralls. Workers with heights outside these ranges need custom sizes.

### WORKER BODY MEASUREMENTS

Worker Body Size	S	M	L	XL	2XL	3XL	4XL	5XL
CHEST (in)	36	39	42	46	50	54	58	62
WAIST (in)	30	33	36	40	44	48	52	56

### WORKER HEIGHT MEASUREMENTS

Worker Body Height	X-Short	Short	Regular	Tall	X-Tall
COAT AND BIB-OVERALL MEASUREMENTS					
HEIGHT RANGE (ft)	5'2" - 5'6"	5'7" - 5'9"	5'10" - 6'1"	6'2" - 6'4"	6'5" - 6'7"
COVERALL MEASUREMENTS					
HEIGHT RANGE (ft)	5'2" - 5'3"	5'4" - 5'5"	5'6" - 6'0"	6'1" - 6'3"	6'4" - 6'7"

## How to Perform a Visual Pre-Inspection of an Oberon Arc Flash Suit

### Coat, Bib-Overall, Hood, Ventilation System

Suit Pictured: TCG75 Series

**Hard Cap:** Check shield adapters, ensure no cracks and correctly fitted inside cap side slots. Inspect for cracks, shell expiration date and that the suspension adjusting mechanism works.

**Hood:** Inspect hood window inside/out and look for excessive scratching, cracks or other damage; replace if necessary. Ensure snaps are securely attached to the fabric and shield. Ensure fabric inside/out does not have rips, tears, or holes. Look for stains or other types of damage from contamination. Look for excessive discoloration or fading of material.

**Coat:** Ensure fabric inside/out does not have rips, tears, or holes. Look for stains or other types of damage from contamination. Look for excessive discoloration or fading of material. Check zipper and/or hook and loop closure; confirm no visible signs of damage.

**Ventilation System:** Perform system check by turning fan on. Replace batteries if needed. Check fan connection to coupling, ensure fully engaged into locked position. Fan unit fully secured inside pocket, loop or strap (located at back).

**Escape Strap:** Inspect for signs of excessive wear or fraying of strap or fabric around strap and confirm no visible signs of damage.

**Leg Zippers:** Check for any bent, missing, or misaligned teeth and ensure the zipper moves smoothly without catching. Confirm the slider and pull tab are intact and that the zipper fully closes and locks securely.



**Bib-Overalls:** Ensure fabric inside/out does not have rips, tears, or holes. Look for stains or other types of damage from contamination. Look for excessive discoloration or fading of material. Check suspenders, inspect for signs of excessive wear and confirm no visible signs of damage. Confirm buckles are operable and suspender strap is flat inside of the adjustment mechanism. Inspect cinch strap(s) for hook and loop seal.





## How to Put On (Donning)

**NOTE:** Oberon products shall be used in accordance with all labeling and applicable Standards. The following “How to Wear” instruction is only an example. Worker instruction is the sole responsibility of the Supervisor and Employer.

### HOOD PREPARATION

- Open storage bag, remove hood, and perform visual inspection.
- If the hood is equipped with a hood ventilation system, perform a battery check by turning the fan switch to “ON”. If the fan does not operate, change the batteries and repeat this step. Switch fan to “OFF” before proceeding to the next step.
- If sharing the hood with others, it’s recommended you keep a can of disinfectant spray and a soft cloth inside of the storage bag.
- Holding the can 18” away from the hood surface, lightly spray the inside of the hood with the can of disinfectant being careful to never spray the outside of any part of the arc flash suit or overspraying creating pooling on the inside of the hood and hard hat.
- Avoid spraying the inside of the hood window.
- Using a clean, lint free soft cloth, clean the outside of the hood window to ensure best possible visibility (remove any dirt,

fingerprints, etc.). Using the same cloth, wipe out the inside of the hood window (lens).

- Place the hood down on a clean surface with the hood opening facing up, allowing the inside of the hood to completely dry before use.

### BIB-OVERALLS

- Remove bib-overalls, perform visual inspection.
- Optional: Don arc flash cooling vest over top of daily wear and underneath the bib-overalls.
- If bib-overall suspender buckles are open, close buckles.
- Don bib-overalls by using a bare wall or chair to take the weight off your legs. Once balanced, place one leg through the pant legs at a time.
- While donning the bib-overalls point your toes to the floor allowing your work boots to slide through the opening. If your work boots are excessively soiled remove them before putting on the bib-overalls.
- Once both legs are through stand up and pull the suspender straps over your shoulders and adjust the tension for a comfortable fit, removing any excess slack in the suspenders.

- If possible, close the side cinch straps with hook and loop closures.
- Close the lower cinch straps using the hook and loop tabs at your ankles to ensure the suit legs do not fall down under your heels, avoiding a potential tripping hazard.

### COAT

- Remove the coat from the storage bag, perform visual inspection.
- Put on the coat over top of the bib-overalls.
- Place the can of disinfectant spray and soft cloth back inside of the storage bag; stow bag in a safe location.
- Completely zip up the front coat closure and seal the zipper using the hook and loop placard, including the strap at the neck to ensure all open areas have been fully sealed.

### OTHER PERSONAL PROTECTIVE EQUIPMENT, WORN BEFORE THE HOOD

- Don approved safety glasses or goggles.
- Don appropriate hearing protective device(s).
- Don any other PPE that is appropriate for the hazard (respiratory protection, over boots, etc.).

### HOOD

- Pick up the hood and inspect inside using your bare hand touching the surfaces to



ensure the disinfectant spray has completely dried.

- Don the hood by first turning the hard hat ratchet suspension knob opening the suspension so the hard hat will generously fit on top of your head.
- Place the hood over top of your head. While holding the bottom of the lens pull the window/shield close to your mouth and reactivate the anti-fog coating on the inside of the hood by breathing over the entire inside surface of hood window.
- Once the hood is on, reach your hand up inside the back of the hood and tighten the ratchet suspension knob to the point at which the hard hat does not slip or easily pull off your head.

### GLOVES

- Complete visual inspection, air testing and pre-use procedures.
- Put on the gloves one hand at a time, ensuring the cuff of the suit coat or coverall is well inside of the innermost gloves, i.e., rubber insulating (voltage rated) or arc-rated gloves lying flat in a natural position and not rolled or bunched up.



### FINAL CHECK

- After the hood is on and the hard hat suspension is properly adjusted, make sure the lower hood flaps are not folded inwards and are lying flat over top of the coat. Do not tuck the hood inside of the collar.
- Double check all closures, sealing any gaps and inspecting for correctness of fit. Reach your hand around to the back of the hood and switch the fan back to "ON" before proceeding to use your arc flash suit.



## How to Take Off (Doffing)

### HOOD

- Remove hood, turn fan switch to "OFF".
- Retrieve the suit storage bag; remove the can of disinfectant spray and soft cloth.
- Holding the can 18" away from the hood surface, lightly spray the inside of the hood with the disinfectant being careful to never spray the outside of any part of the arc flash suit or overspraying creating pooling on the inside of the hood window.
- Always avoid spraying the inside of the hood window.
- Immediately wipe accidental spray off the inside of the hood window using soft cloth.
- Place the can of disinfectant spray and soft

cloth back inside of the storage bag.

- Place the hood down on a clean surface with the hood opening facing up, allowing the inside of the hood to completely dry before storing.

### COAT

- Remove your coat and fold lengthwise before placing back inside of the storage bag.
- Proceed to removing the bib-overalls by opening the cinch straps on the sides and at the ankles, then pulling the suspender straps over your shoulders.

### BIB-OVERALLS

- Find a bare space on a wall or by sitting on a chair, balance your weight and pull your legs through the bib-overalls. It is helpful to use your opposite hand to hold the bottom of the bib-overall pant legs allowing your work boot to easily pull through.
- Remember to point your toes down. If your work boots are excessively soiled remove them before removing the bib-overalls.
- Once the bib-overalls are removed fold them lengthwise and place them on top of the coat inside of the suit storage bag.

### STORAGE

- Pick up the hood, and using the lower flap from the front, fold up and over the outside of the hood window to prevent shield damage while being stored.
- Fold the back of the hood including the fan unit inside of the hard hat and place the hood into the storage bag.
- Zip closed the storage bag and store in a safe dry location.



## Instructions on Storage

- Use a storage bag or storage locker in a clean dry environment. Never store with sharp objects or in dusty areas.
- To avoid color fading and loss of strength never store under direct sunlight or other UV light sources (UV radiation does not affect heat and flame protection).
- When placing the hood inside of a storage bag, flip up the front flap to cover and protect the hood shield window. Hood storage bags are also available.
- Recommend folding the arc flash suit coat, bib-overall or coverall before placing in storage.
- Be sure all powered components are turned off before storage including the fan unit and LED lamp.
- To ensure the hood ventilation system fan does not turn on while using a storage bag, disconnect the fan unit from the coupling (turn fan counterclockwise), and open battery storage compartment cover and remove one battery. Replace the battery compartment cover and store in a pouch inside of the storage bag.



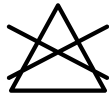
## Workplace Illumination

- Workers wearing arc flash suits shall not enter spaces where electrical hazards exist unless sufficient illumination is provided that enables the workers to perform the work safely.
- Arc flash suit hoods are available with LED task lighting that improves task visibility and enhances overall safety and efficiency while mitigating the risks associated with working in low-light conditions.
- A recommended lighting level is typically around 750 lux (75 foot-candles) or more.
- Always make sure to follow any applicable local safety regulations or guidelines for your specific work environment.

## Laundering Instructions



Normal cycle, warm wash  
up to 40°C (104°F)



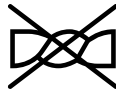
Do not bleach



Tumble dry, low heat



Dry in the shade  
out of direct sunlight



Do not wring



Do not iron

**Note:** Always follow the instructions on the care label found inside of your Oberon PPE.

### GENERAL CLEANING REQUIREMENTS

- Wash arc flash PPE regularly.
- Repairs to the garment must be made with the same thread and fabric.
- Always completely disassemble your hood before laundering. (See instructions below.) Do not launder hood with window, hard hat, hood ventilation system and LED lamp in place.
- Close all hook and loop fasteners before laundering to avoid unwanted pilling or clogging the hook portion of the fastener.
- Suits shall be washed or cleaned separately from any other clothing.

### WASHING PROCEDURES

The following instructions apply to domestic as well as industrial washing. Load washing machine evenly at 2/3 of volume of the drum. Machine wash at temperatures up to 40°C with a water to soap relation of 1:10.

### DETERGENTS

To wash PPE in the correct way, the bath should have a pH value <10. General commercial detergents for colored clothing can be used and proportioned according to the detergent manufacturer's information. Full detergents contain brighteners and are therefore not suitable.

**Do not use bleaching agents or products which contain bleaching agents.**

### FABRIC SOFTENER

Do not use fabric softener.

### RINSING

After washing, PPE shall be rinsed carefully in order to remove all remains of alkaline and/or possibly flammable residues of the detergent. Up to 2 - 3 rinsing cycles may be necessary.

### DRYING

Garments may be spin-dried and dried in a cylinder drying machine with low or normal temperatures until a remaining humidity of 10 - 20%.

### IRONING

Do not iron.

### CHEMICAL DRY CLEANING

Chemical dry cleaning is recommended when clothing becomes very dirty by e.g., oil or grease. Chemical dry cleaning shall be done according to the care labeling by the usual two-bath procedure. Boosters should only be used in extreme situations and only with reduced mechanism. Chemical dry cleaning shall only



be executed by experts. Before PPE is used again it should be completely free of solvents.

Therefore, the clothing should ventilate for at least one day after being cleaned.

## How to Disassemble an Arc Flash Suit Hood

1. Remove all optional accessories (i.e., hood ventilation system, LED lamp). Firmly hold the fan and twist to remove.
2. Remove the hard cap by carefully pushing in on the slot adapter clips.
3. Unsnap the front of the shield from the hood. Carefully remove the shield ensuring you don't scratch it. Use the slits on the left and right sides of the face shield pocket to fully pull the shield out.
4. Flip the hood inside out and unzip the ventilation system bladder from left to right.
5. Clean according to the heat press label instructions.

For a visual demonstration of disassembling a hood, [please refer to this video](#).



## Cleaning Versus Disinfecting

In all situations where PPE, tools and equipment are used by workers, employers must ensure all surfaces that can be touched by workers have been cleaned and disinfected.

However, cleaning is not the same as disinfecting. The Centers for Disease Control and Prevention (CDC) defines cleaning versus disinfecting as follows:

**Cleaning** refers to the removal of germs, dirt, and impurities from surfaces. Cleaning does not kill germs, but by removing them, it lowers their numbers and the risk of spreading infection.

**Disinfecting** refers to using chemicals to kill germs on surfaces. This process does not

necessarily clean dirty surfaces or remove germs, but by killing germs on a surface after cleaning, it can further lower the risk of spreading infection.

The important distinction to be made here is that cleaning your PPE is not enough to kill germs and viruses. To protect your workers you must also disinfect it between each use. When it comes to arc flash PPE this is a complicated process as we have both porous and non-porous surfaces. For example, a face shield is considered a non-porous surface and can be easily cleaned. The fabric portion of an arc flash suit would be considered a porous surface and is much more difficult to disinfect.

## How to Clean and Disinfect a Hood

The first step to cleaning and disinfecting an Oberon TCG™ hood is to disassemble it. Once done, if the shield has dirt or grit, flush it off with room temperature tap water.

The next step to disinfecting a TCG™ hood window is to take a soft cloth with isopropyl alcohol or use a Lysol® wipe and gently clean both sides of the shield. This process may leave streaks as the surface dries. Once dry, use a soft, clean cloth and lightly wipe off any streaks or film left on the shield from impurities in the wipes.

**For any plastic parts without coatings use a 10% solution of bleach (sodium hypochlorite or NaOCL). Allow it to evaporate. DO NOT rinse off.**

## How to Clean and Disinfect an Arc Flash Suit

The fabric portion of a suit is very porous which creates a very challenging proposition when it comes to disinfection.

One method currently available is to turn the suit inside out and spray with an approved

disinfectant on the inside of the hood and suit. While this will not kill 100% of all bacteria and viruses, it is one of the best defenses currently available. When spraying the inside of the suit and hood, be careful not to get any spray on the outside of the suit. It is also very important to let the suit dry completely before putting it back into service.

Another method to disinfect the suit is to launder it according to the directions on the label. If higher temperatures are needed to kill bacteria and viruses the suits can be washed and dried at higher temperatures without diminishing their protective qualities. This may, however, cause additional shrinkage that could hamper the overall fit of the suit.

As a third method, consult your local commercial laundering facility and inquire what options are available that will clean and disinfect arc flash PPE according to ASTM F1449 Standards.

**Caution: When consulting your commercial laundering facility it is important to note that any deviation from the washing instructions has the potential to damage the protective properties of the suit. Please consult your local Oberon representative for further guidance on this topic.**



## Frequently Asked Questions

### HOW DO ARC-RATED GARMENTS ACTUALLY PROTECT ME?

Arc flash PPE is tested to determine its protective ability, called an arc rating. This testing is done on the fabric or a finished product using various testing methods according to applicable Standards.

Arc-rated clothing provides insulation that protects a worker from the thermal incident energy caused by an arc flash incident.

There are different types of arc ratings in North America, reported as either ATPV,  $E_{BT}$  or  $AR_{Lim}$ . These values are provided in  $cal/cm^2$ .

**ATPV:** Arc Thermal Performance Value, the incident energy level at which there is a 50%

probability of sufficient heat transfer to cause the onset of a second-degree skin burn injury.

**$E_{BT}$ :** Breakopen Threshold Energy, the incident energy level at which there is a 50% probability of the formation of holes or tears in the layer closest to the skin.

**$AR_{Lim}$ :** The Arc Rating Limit is the maximum arc thermal energy protection that has been assigned to the product based on the manufacturer's specifications after verification with testing or limits of detection of the test method.

The most common type of arc rating is the Arc Thermal Performance Value, or ATPV. Selecting PPE with an arc rating that matches or exceeds the highest level of potential thermal incident energy exposure from an arc flash incident is critical in protecting your electrical workers.



It is essential to know the incident energy potential of the equipment in your electrical environment to effectively choose the correct arc-rated PPE with the appropriate arc rating.

### WHAT ARE THE LIMITATIONS OF AN ARC FLASH RATED SUIT?

A common misconception is that a person wearing an arc-rated suit is “bulletproof” from the hazards associated with electricity.



There are three main potential hazards when working with electricity: electric shock, arc flash and arc blast.

An arc flash suit can protect you from an arc flash provided that the incident energy level the suit is exposed to is equal to or less than what the suit is rated for. All arc tested suits will come labeled with an estimated ATPV level measured in calories per square centimeter (cal/cm<sup>2</sup>).

Oberon recommends having a risk assessment done before working on any electrical equipment to help identify the possible risks associated with the work task to be performed. Once this analysis is done the appropriate ATPV level needed can be determined and the proper PPE selected.

This leaves two other electrical hazards that could potentially harm you. The arc blast is a high pressure sound wave that is caused by a sudden arc fault. It can cause molten metal droplets to be propelled at high speeds as well as sudden expansion of air pressure that can blast out.

An arc flash suit offers some protection from these types of hazards, but only in a limited capacity. For instance, if a blast pressure wave were to be strong enough to propel a worker across a room, an arc flash suit would not be able to protect the worker from the force of the wave.

The last type of electrical hazard that a worker can be exposed to is electrical shock. Shocks are caused when contact is made by a worker with an electrical energy source. Arc flash suits are not tested or designed to protect workers from this type of hazard.

Typically, workers will wear rubber electrical gloves with leather protectors when there is a risk of electric shock while performing their work task.

### CAN ARC FLASH PPE BE SHARED BETWEEN WORKERS?

Sharing arc flash PPE between workers is discouraged due to contamination risks, improper fit, and wear and tear that can compromise protection. Each worker should have individually fitted equipment to ensure comfort and safety, as sharing can lead to hygiene concerns and accountability issues regarding maintenance. Different individuals may alter adjustments, further increasing risks of inadequate protection. Moreover, compliance with safety standards and regulations typically mandates personalized gear to enhance workplace safety. For these reasons, it is essential for workers to use their own properly maintained PPE.

Please see the [white paper](#) in the resource section of our website for more details.





## Sample Garment Labels

**OBERON TCG75™ Electrical Arc Flash Coat**

For electric arc exposures, perform an electric arc hazard assessment and wear the properly rated flame resistant clothing

Use this **Coat** with suitably arc rated **Hood & Pants**

Meets ASTM F1506, NFPA 70E & CSA Z462, ANSI/ISEA 125 Conformity Level 2

Arc Rating **76** cal/cm<sup>2</sup> (ATPV)

Fabric System tested in accordance with ASTM F1959

99% Aramid, 1% Anti-static

**Caution**  
Flammable contaminants will reduce the thermal performance of any flame resistant garment. Wash garment to ensure that no greases, oily soils or other flammable contaminants are present when garment is worn. Repairs to the garment must be made with the same thread and fabric.

**Do not reuse this product after an arc exposure**

**Washing Instructions**

Fabric: WASH – Wash this garment separately from other types of garments or fabrics. Use warm water & mild detergent. DO not use detergents or additives containing (or creating) chlorine bleach or oxygen bleach (example: Hydrogen Peroxide) or enzymes. Do not use soap or fabric softeners. Do not wring dry.  
DRY – Tumble dry low heat and remove immediately. Do not iron. Garment can be dry cleaned. Do not use disinfectants

**Important Warning**  
This product does not provide insulation from electric shock. This product, when properly selected and worn, is designed to provide protection from burn injuries resulting from an electrical arc flash in accordance with ASTM F1506 & NFPA 70E. It is important to note that this product will provide limited or no protection against sound, pressure, projectiles and respiratory hazards which may result from an arc incident.  
Face protective products which are effective against the arc flash hazard can reduce visibility. NFPA 70E calls for the use of additional lighting if work conditions require.

142-150cm (56-59in)  
CAT III 0161

EN 61482-1-2; Class 2;  
Annex II Regulation (EU) 2016/425  
Caution Read Instructions Before Use IEC 61482-2 APC = 2

OBERON COMPANY - www.arcflash.com  
Made in U.S.A.

TCG75-CT-XL

731406504792

R 2.1-35

Sample Arc Flash Coat Label

**OBERON TCG75™ Electrical Arc Flash Bib-Overall**

For electric arc exposures, perform an electric arc hazard assessment and wear the properly rated flame resistant clothing

Use this **Bib-Overall** with suitably arc rated **Hood & Coat**

Meets ASTM F1506, NFPA 70E & CSA Z462, ANSI/ISEA 125 Conformity Level 2

Arc Rating **76** cal/cm<sup>2</sup> (ATPV)

Fabric System tested in accordance with ASTM F1959

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**Do not reuse this product after an arc exposure**

**Washing Instructions**

Fabric: WASH – Wash this garment separately from other types of garments or fabrics. Use warm water & mild detergent. DO not use detergents or additives containing (or creating) chlorine bleach or oxygen bleach (example: Hydrogen Peroxide) or enzymes. Do not use soap or fabric softeners. Do not wring dry.  
DRY – Tumble dry low heat and remove immediately. Do not iron. Garment can be dry cleaned. Do not use disinfectants

**Important Warning**  
This product does not provide insulation from electric shock. This product, when properly selected and worn, is designed to provide protection from burn injuries resulting from an electrical arc flash in accordance with ASTM F1506 & NFPA 70E. It is important to note that this product will provide limited or no protection against sound, pressure, projectiles and respiratory hazards which may result from an arc incident.  
Face protective products which are effective against the arc flash hazard can reduce visibility. NFPA 70E calls for the use of additional lighting if work conditions require.

142-150cm (56-59in)  
CAT III 0161

EN 61482-1-2; Class 2;  
Annex II Regulation (EU) 2016/425  
Caution Read Instructions Before Use IEC 61482-2 APC = 2

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TCG75-BIB-XL


731406504808

R 2.1-23

Sample Arc Flash Bib-Overall Label



## Sample Garment Labels



### TCG75™ Electrical Arc Flash Hood

For electric arc exposures, perform an electric arc hazard assessment and wear the properly rated flame resistant clothing

Use this hood with proper respiratory protection (if required)  
 Use this **Hood** with suitably arc rated **Coverall** or **Coat & Pants/Bib-Overall**

Meets ASTM F1506, NFPA 70E & CSA Z462,  
 ANSI/ISEA 125 Conformity Level 2

Arc Rating **76** cal/cm<sup>2</sup> (ATPV)







Hood tested in accordance with ASTM F2178  
 Fabric System tested in accordance with ASTM F1959

**99% Aramid, 1% Anti-static**

**Caution**  
 Flammable contaminants will reduce the thermal performance of any flame resistant garment. Wash garment to ensure that no greases, oily soils or other flammable contaminants are present when garment is worn. Repairs to the garment must be made with the same thread and fabric.

**Do not reuse this product after an arc exposure**

**Washing Instructions**


Window: Remove window from Hood shell. Rinse window with warm water. Tap dry inner surface w/soft cloth.  
 DO NOT USE cleaners or disinfectants on inner surface!

Fabric: WASH – Wash this garment separately from other types of garments or fabrics. Use warm water & mild detergent. DO not use detergents or additives containing (or creating) chlorine bleach or oxygen bleach (example: Hydrogen Peroxide) or enzymes. Do not use soap or fabric softeners. Do not wring dry.  
 DRY – Tumble dry low heat and remove immediately. Do not iron. Garment can be dry cleaned. Do not use disinfectants

**Important Warning**  
 This product does not provide insulation from electric shock. This product, when properly selected and worn, is designed to provide protection from burn injuries resulting from an electrical arc flash in accordance with ASTM F1506 & NFPA 70E. It is important to note that this product will provide limited or no protection against sound, pressure, projectiles and respiratory hazards which may result from an arc incident.  
 Face protective products which are effective against the arc flash hazard can reduce visibility. NFPA 70E calls for the use of additional lighting if work conditions require.

**Remember**  
 Always perform a hazard analysis to determine the potential arc hazard energy level. Only use PPE with an arc rating (ATPV or EBT) that is equal to or greater than your potential arc hazard level.


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CAT III  0161

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Arc Flash PPE Level 4/Class 2 Protective Shield  
 EN 166:2001; EN 170:2002; GS-ET-29:2019  
 2C-2 OBC 1 B 8-2-2 K CE 0161  
 Annex II Regulation (EU) 2016/425  
 Caution Read Instructions Before Use

**TCG75-C**



504815111457

R2.1-28

Sample Arc Flash Hood Label



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V6.1

