

## 

**Protective Outerwear Solutions** 



#### Quality

NASCO manufactures the highest quality products available. From digitally mastered patterns to computerized assembly techniques, NASCO made in USA quality is engineered into every garment.

#### Safety

NASCO understands outerwear plays a significant role in workplace safety. Whether you need protection from an electric arc, a flash fire, a chemical splash or a road-side traffic hazard, NASCO products are tested to the most current and stringent safety standards available.

#### Comfort

NASCO understands that a balance must be struck between safety and comfort. But you need not sacrifice one for the other any longer. NASCO's mission is to maximize safety, comfort and functionality of our rainwear. Waterproof, breathable and safe protective outerwear solutions are now available.

#### **Innovation**

NASCO understands that solutions are derived from innovation. Technologies continue to advance, making materials safer, lighter, stronger and more comfortable. Change must be constant. It is the NASCO mission to convert these advancements in materials into protective outerwear solutions for today's workforce.

#### **Our Commitment**

NASCO customers should expect...

- Accurate, on-time delivery
- Respectful, courteous customer service
- A quality domestic product covered by a guarantee of complete satisfaction
- Access to industry expertise and expert problem solving knowledge
- Quality, innovative protective outerwear solutions







#### **Property Legend**











NASCO has the ability to create high quality corporate images using ink silk-screening, single and multi-color heat transfers and reflective logos using 3M Scotchlite™ technologies.

All NASCO raingear patterns are digitally mastered and cut ensuring that you get the right size garment every time.

















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#### **ArcWear Resources & Associated Hazards**

What is an Arc Flash? Arc Flash is the result of a rapid release of energy caused by a fault between a phase bus bar and another phase bus bar, neutral or a ground where the air is the conductor. The National Fire Protection Association (NFPA), says it is "a dangerous condition associated with the release of energy caused by an electric arc."

Who is exposed to an Arc Flash? Utility workers who are lineman, meter service technicians, troublemen, field service locators, and anyone else working on energized lines. Also, in general industry, electricians working on electrical installations may be exposed.

# Above: When exposed to an electric arc, suit ignites, melts, drips and fails to meet F1891. Right: NASCO suit does not ignite, melt or drip and exceeds ASTM F1891 requirements.

#### Additional Resources:

Flash Fire Resistance see page 8 Traffic Standards & Chemical Splash see page 14

#### Arc Flash Relevant Standards

#### **Electric Arc Resistance**



#### **ASTM F1891**

- Arc Rating: The amount of energy needed to create the 50% probability of a second degree burn injury.
- Heat Attenuation Factor: The percent of the energy which is blocked by a material.
- Breakopen Threshold: The amount of energy that results in a 50% probability that the fabric will breakopen.

#### Requirements

- Material must be flame retardant (ASTM D6413), self-extinguish <2 seconds, <6" char length.</li>
- Must determine Arc Rating (ASTM F1959) report results, no minimum required.
- Must determine Heat Attenuation Factor (ASTM F1959) report results, no minimum required.
- Must determine Breakopen Threshold (ASTM F1959) report results, minimum of 5 cal/cm<sup>2</sup>.
- · Must not melt, drip or ignite at two (2) times arc rating.

#### NFPA 70E / CSA Z462



- NFPA 70E Standard for Electrical Safety Requirements for Employee Workplace, includes codes, standards and recommended practices and guides for safe work practices.
- Covers protection to workers from electrical hazards associated with installation, maintenance or repair of electrical systems. This standard excludes the transmission and distribution of electric power by utility companies.
- Requires workplace to conduct a hazard assessment then provide personal protective equipment (PPE) based on that assessment. Hazard risk categories have been established to help employers select proper PPE.
- Hazard Risk Categories are:

HRC	Minimum Arc Rating
1	4
2	8
3	25
4	40

#### Comfort

#### **Breathability**



#### Breathable Raingear vs. Non-Breathable Raingear

- Non-breathable raingear is designed to keep water out but also keeps perspiration in. It creates an internal environment that stores heat which leads to workers becoming wet from perspiration even though no rain passed through.
- Breathable raingear is designed to collect and transmit perspiration out of the garment. This leaves the worker dry from both the transmitted perspiration and the rain.
- · Breathability is measured in 2 ways:
  - Moisture Vapor Transmission Rate (MVTR) The amount of vapor that evaporates through the material per ASTM E96.
  - Total Heat Loss (THL) The ability of a material to release heat as it is built up per ASTM F1868.
- For a material to be considered breathable, it must have a:
  - Moisture Vapor Transmission Rate (MVTR) of greater than 5000 g/m²/24 hours.
  - -Total Heat Loss (THL) of 300 watts/m<sup>2</sup>/24 hours





**Following items come standard with:** hood-in-collar, nonconductive zipper front with Velcro storm fly front, fall protection access, 2 side entry pockets, tool belt slit with zippers, liner attachments, 3M Scotchlite 2" reflective trim around chest, shoulder harness and biceps.

- 5503JNFY Navy/Fluorescent yellow waist length jacket.
- •• 5503JNFO Navy/Fluorescent orange waist length jacket.

Following items come standard with: Klein Tool pocket on right thigh, reinforced knees, non-conductive leg zippers with overfly, 3M Scotchlite 2" reflective trim at calf and ankles.

Scotchlite<sup>\*</sup> Reflective Material

• 5001PFY Fluorescent yellow elastic waist pant with drawstring, snap fly front.

**Thinsulate** 

FR

- 5001PFO Fluorescent orange elastic waist pant with drawstring, snap fly front.
- 5001TFY Fluorescent yellow bib style trouser with snap fly front, quick release suspender self-material system.
- 5001TFO Fluorescent orange bib style trouser with snap fly front, quick release suspender self-material system.

## Sentine

Sentinel<sup>™</sup> excels in joining comfort with durability and protection.

While keeping workers safe from electric arcs and flash fires, the durable Sentinel<sup>™</sup> material extends the usable life and level of comfort well beyond other raingear.

#### **Features & Benefits**

Arc and Flame Resistance

Does Not Melt, Drip, Ignite, or Break Open

Minimizes Heat Transfer Burns

Flash Fire Resistance

Does Not Melt, Drip, Ignite, or Break Open

Minimizes Heat Transfer Burns

Chemical Splash Resistance

Waterproof

Durable

Soft, Flexible

Long Life Cycle

#### Recommended Applications

Electric & Gas Utilities Gas & Oil Extraction Oil Refining Electrical Maintenance Electrical Switching Meter Service Storm Restoration Tank Cleaning















#### Sentinel™ 4500 Items 10 oz/yd 100% Cotton Knit/Polyurethane

- 4503J Waist length jacket, 3 piece hood-in-collar, non-conductive zipper front with Velcro® closure, Nomex® mesh ventilation system, fall protection access, Velcro® tab type wrist adjusters, two pockets with Velcro® closure, 3M Scotchlite™ 2" reflective trim, ANSI 107 Class 3 Level 2.
- 4503C 48" coat, 3 piece hood-in-collar, non-conductive zipper front w/ Velcro closure, Nomex mesh ventilation, fall protection access, Velcro tab type wrist adjusters, 2 pockets w/ Velcro closure, 3M Scotchlite 2" reflective trim, ANSI 107 Class 3, Level 2.
- 4501T Bib style trouser with quick release suspender system, fly front with snap, Velcro® tab type leg
  cuff adjusters, 3M 2" reflective trim around calves and knees, ANSI 107 Class E Level 2.
- 4501P Elastic waist pant, fly front with snap, Velcro® tab type leg cuff adjusters, 3M 2" reflective trim around calves and knees, ANSI 107 Class E Level 2.

## ArcLite"

ArcLite™ is the most popular foul weather product designed specifically for utility workers who may be exposed to electric arcs. With a feature packed design, ArcLite is sure to meet the needs of the demanding electric utility industry.

#### **Features & Benefits**

Arc and Flame Resistance

Does Not Melt, Drip, Ignite, or Break Open

Minimizes Heat Transfer Burns

Waterproof

Lightweight

Soft, Flexible

Designed by Linemen

**Limited Chemical Splash Resistance** 

#### Recommended Applications

Electric Utility
Electrical Maintenance

Meter Service

**Electrical Switching** 

Telecommunication workers

**CATV** workers











#### ArcLite™ 1000/1500 Items 8 oz/yd2 FR Synthetic Leather PU/PVC

Following items come standard with: two pockets with Velcro® closure, non-conductive zipper front with dual over files and snaps, Nomex® mesh ventilation system, fall protection access, Velcro® tab type wrist adjusters.

- 1503J Waist length jacket, 3 piece hood-in-collar, 3M 2" reflective trim around chest, over-shoulder harness, around biceps and around hood, ANSI 107 Class 3 Level 2.
- 1103J Waist length jacket, hood-in-collar, 3M 1.5" reflective trim down fly front, across cape back, around bottom hem, and around sleeve cuffs.
- \$1503C 48" length coat, 3 piece hood-in-collar, 3M 2" reflective trim around chest, over-shoulder harness, around biceps and around hood, ANSI 107 Class 3 Level 2.

 1103C 48" length coat, hood-in-collar, 3M 1.5" reflective trim down fly front, across cape back, around bottom hem, and around sleeve cuffs.

**Following items come standard with:** quick release suspender system, fly front with snap, Velcro® tab type leg cuff adjusters.

- 1501T Bib style trouser, 3M 2" reflective trim around calves and knees, ANSI 107 Class E Level 2.
- 1101T Bib style trouser, 3M 1.5" reflective trim around calves and knees.

#### PetroWear Resources

What is a hydrocarbon flash fire? An unexpected, sudden intense fire caused by the ignition of flammable solids (including dust), liquids, or gases. It is characterized by high-temperature, short-duration, considerable shock waves, and a rapidly moving flame front. This is a very dangerous yet common type of work related fire hazard in the petrochemical and natural gas industry, but can be found in other industries as well.

Who could be exposed to a flash fire? Workers in the following industries are at risk for exposure:

- · Oil Refining and Processing
- Oil and Gas Extraction
- · Tank Cleaning
- · Chemical Handling and Transport
- · Chemical Manufacturing and Processing
- · Pipeline Construction and Maintenance
- Oil and Gas Service Contractors



NASCO PetroLite - ASTM F2733 compliant, no melting, no dripping, no ignition.

#### Flash Fire Relevant Standards

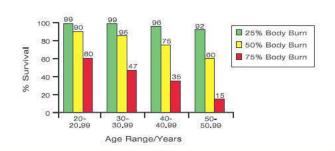
#### What is FR?



#### Limited Flame Resistance (LFR) vs. Flash Fire Resistance (FFR)

- · LFR measures a fabric's ability to self-extinguish within 2 sec. of removal of the ignition source per ASTM D6413. LFR is a function only of the fabric. LFR is valuable to determine how a fabric will react to a small and simple flame.
- FFR measures the predicted burn injury from a simulated flash fire per ASTM F1930. FFR is a function of both the fabric and the design of the garment worn.
- · FFR is valuable to determine how protective a garment is and to what extent the worker wearing that garment may be injured.

Burn Injury Survivability: The ability of an individual to survive burn injury is dependant primarily on 2 factors: percent of burn injury and age. As both increase, the chance of survival decreases. In an industrial setting, because you cannot control the age of the worker, you must control the severity of the burn. The industry objective is to reduce the burn injury as low as possible thus increasing the survivability.



#### Flash Fire Resistance ASTM F2733



- Rainwear material shall be exposed to a 3 second flash fire burn in accordance with ASTM F1930.
- The average predicted total area of burn injury for the three specimens tested shall be equal to or less than 40%.
- Material response characteristics shall be reported for all exposures. Characteristics are: Afterflame time, breakopen, charring, melting, dripping, garment ignition, embrittlement, and shrinkage.
- Structural seam integrity: Structural seams shall not exhibit a seam failure that creates a seam opening of greater than 51 mm (2 inches).
- Closure function: Closures shall function (open only) after the simulated fire exposure. Closures that do not fully open do not meet the performance requirements of this specification. Report all closures that do not fully open.
- Manufacturer Label: States size, catalog number, manufacturer's name and notation of conformance to F2733, and the label is permanently affixed in each rainwear item.

NFPA 2112 is not intended for coated fabrics and is a complimentary standard to F2733 providing a complete clothing ensemble to provide flash fire protection.

#### Additional Resources:

Arc Flash Standards see page 4 Breathability see page 4 Traffic Standards & Chemical Splash see page 14

significant melting, dripping,

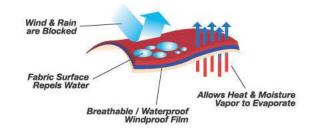
shrinkage, break open, and

ignition in a flash fire test.





- 3503J Waist length Jacket, hood-in-collar, fall protection access, 2 side entry pockets, tool belt slit
  with zippers, attachment points for removable liners, 3M Scotchlite 2" reflective trim around waist and
  sleeve cuffs.
- 3501T Bib style trouser with non-conductive zipper front with Velcro storm fly front, quick release suspender self-material system, non-conductive leg zippers with overfly, reinforced knees, Velcro leg take ups, 3M Scotchlite 2" reflective trim at ankles.
- 3501P Elastic waist pant with elastic drawstring, plain front, reinforced knees, non-conductive leg
  zippers with overfly, Velcro leg take ups, 3M Scotchlite 2" reflective trim at ankles.
- 3000CV Coverall with collar, zipper front with overfly, Velcro® wrist adjusters and Velcro® leg
  cuff adjusters (not shown).



## Sentinel

Sentinel™ excels in joining comfort with durability and protection.

While keeping workers safe from electric arcs and flash fires, the durable

Sentinel<sup>™</sup> material extends the usable life and level of comfort well

beyond other raingear.

#### **Features & Benefits**

Arc and Flame Resistance

Does Not Melt, Drip, Ignite, or Break Open

Minimizes Heat Transfer Burns

Flash Fire Resistance

Does Not Melt, Drip, Ignite, or Break Open

Minimizes Heat Transfer Burns

Chemical Splash Resistance

Waterproof

Durable

Soft, Flexible

Long Life Cycle

#### Recommended Applications

Well Servicing

**Drilling Rig Operations** 

SAGD

Heavy Oil

Oil Refining and Processing

Pipeline Construction and

Maintenance

Offshore Oil

and Gas Drilling

Gas and Oil Extraction

Tank Cleaning

**Chemical Handling** 

and Transport

**Chemical Processing** 

















#### Sentinel™ 4500 Items 10 oz/yd² FR Cotton Knit/FR Polyurethane

- 4503J Waist length jacket, 3 piece hood-in-collar, non-conductive zipper front with Velcro\* closure, Nomex\* mesh ventilation system, fall protection access, Velcro\* tab type wrist adjusters, two pockets with Velcro\* closure, 3M Scotchlite™ 2" reflective trim, ANSI 107 Class 3 Level 2.
- 4501T Bib style trouser with quick release suspender system, fly front with snap, Velcro® tab type leg
  cuff adjusters, 3M 2" reflective trim around calves and knees, ANSI 107 Class E Level 2.
- 4501P Elastic waist pant, fly front with snap, Velcro® tab type leg cuff adjusters, 3M 2" reflective trim around calves and knees, ANSI 107 Class E Level 2.
- 4503C 48" coat, 3 piece hood-in-collar, non-conductive zipper front w/ Velcro closure, Nomex mesh ventilation, fall protection access, Velcro tab type wrist adjusters, 2 pockets w/ Velcro closure, 3M Scotchlite 2" reflective trim, ANSI 107 Class 3, Level 2.

#### **Available Colors**





Fluorescent Orange

Fluorescent Lime Yellow



Omega 5000 Items 9 oz/yd2 Omega FR outer Shell; Nomex® knit inside

**Following items come standard with:** brass zipper front w/Velcro storm fly, liner zippers, 2 side entry pockets, tool belt access w/zippers, 3M 9910 2" reflective trim around biceps, over-shoulder harness, "X" back, Velcro tab sleeve take ups, ID pocket with lap & radio pocket on chest.

- 5503JNFY146 Navy/Fluorescent yellow waist length jacket.
- 5503JNF0146 Navy/Fluorescent orange waist length jacket.

Following items come standard with: Klein Tool pocket on right thigh, reinforced knees, non-conductive leg zippers with overfly, 3M Scotchlite 2" reflective trim at calf and ankles.

- 5001P Elastic waist pant with drawstring, snap front.
- 5001T Bib style trouser with snap fly front, quick release self-material suspender system.

**Following items come standard with:** hood-in-collar, nonconductive zipper front with Velcro storm fly front, fall protection access, 2 side entry pockets, tool belt slit with zippers, liner attachments, 3M Scotchlite 2" reflective trim around chest, overshoulder harness and biceps.

- 5503JNFY Navy/Fluorescent yellow waist length jacket.
- 5503JNFO Navy/Fluorescent orange waist length jacket.

## **PetroLite**

PetroLite™ provides multiple hazard protection for workers exposed to electric arcs, flash fires, chemical splash and foul weather. PetroLite versatility allows for the cost effective use of one product to meet se different safety needs.

#### **Features & Benefits**

Electric Arc Resistance

Does Not Melt, Drip, Ignite, or Break Open

Minimizes Heat Transfer Burns

Flash Fire Resistance

Does Not Melt, Drip, Ignite, or

Break Open

Minimizes Heat Transfer Burns

Chemical Splash Resistance

Waterproof

Feature Rich Design

Durable

**Heavy Duty** 

#### Recommended Applications

Well Servicing

**Drilling Rig Operations** 

SAGD

Heavy Oil

Oil Refining and Processing

Pipeline Construction and

Maintenance

Offshore Oil and Gas Drilling

Gas and Oil Extraction

Tank Cleaning

Chemical Handling and Transpo

**Chemical Processing** 

















#### PetroLite ™9000 Items 12 oz/yd² Nomex® IIIA FR Neoprene

- 9003JB0245 International orange waist length jacket, elastic waist, non-conductive zipper front with
  dual over flies and snaps, hood-in-collar, fall protection access, inner cuffs, 2 patch pockets, Velcro sleeve
  take ups, 3M Scotchlite 2" reflective trim around sleeves, down each front, around waist, "X" on back per
  CSA Z96.
- 9003CB0245 International orange 48" length coat, non-conductive zipper front with dual over flies
  and snaps, hood-in-collar, fall protection access, inner cuffs, 2 patch pockets, Velcro sleeve take ups, 3M
  Scotchlite 2" reflective trim around sleeves, down each front, around waist, "X" on back per CSA Z96.
- 9000TB0245 Bib style trouser with quick release suspender system, plain front, leg zippers with storm fly, 3M 2" reflective trim around calves, knees and around waist. CSA Z96 compliant.

#### **Available Color**



International Orange



**Nomex Fleece** 8 oz/yd² Nomex® Fleece, Arc Resistant (ASTM F1506, NFPA 70E) and Flash Fire Resistant (ASTM F1930), Made in USA.

- FLC3000JB Waist length jacket, elastic cuff, elastic waist, 2 pockets, zipper front.
- FLC3000JB102 Waist length jacket, elastic waist, zipper front, Nomex knit cuffs, fall protection access, side openings with zipper closure, 2 pockets, attachment points.

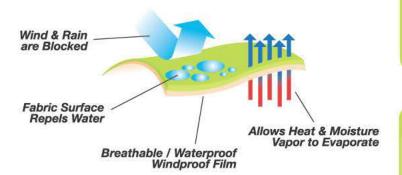
**3M FR Thinsulate Insulated Lining** Arc Resistant (ASTM F1506, NFPA 70E) and Flash Fire Resistant (ASTM F1930), Made in USA.

- LIN5120JGR 120g FR Thinsulate waist length jacket, elastic waist, zipper front, Nomex knit cuffs, fall
  protection access, side openings with snap closure, 2 inside pockets, inside radio pocket on left chest,
  attachment points.
- LIN5200JGR102 200g FR Thinsulate waist length jacket, elastic waist, zipper front, Nomex knit cuffs, fall protection access, side openings with snap closure, 2 inside pockets, inside radio pocket on left chest, attachment points.

#### HiVis / WorkWear Resources

NASCO's HiVis line of outerwear was developed for workers in low light and/or foul weather conditions. Industries concerned about worker visibility and ANSI 107 high visibility compliance can choose from a line focused on comfort and safety.

From our lightweight, breathable, and windproof Envisage to our lightweight and stretchable WorkBrite, workers benefit from unparalleled comfort offering durability and protection. By incorporating high visibility features into unique waterproof solutions, workers exposed to vehicular traffic have options that are right for them.



#### **Chemical Penetration Resistance**



#### Permeation vs. Penetration

- Permeation resistance testing measures the passage of chemicals (liquids or gases) through a material at a molecular level and requires sensitive analytical equipment to detect chemical breakthrough. It is intended for use with vapor-protective, gas-tight, EPA level A garments. The primary purpose is to isolate the wearer from a surrounding hazardous chemical environment.
- Penetration resistance testing evaluates if liquids physically penetrate
  materials using visual observation for detection. It is intended for use with
  liquid-splash, liquid-tight, EPA level B or C garments. The primary purpose is to
  keep liquids from contacting the wearer's skin.

#### **ASTM F903 Test Method**

- 5 minutes at ambient pressure
- 1 minute at 2 psig
- · 54 minutes at ambient pressure
- · Test yields a pass or fail result

#### Additional Resources:

Arc Flash Standards see page 4 Breathability see page 4 Flash Fire Resistance see page 8

#### Traffic Relevant Standards

#### **High Visibility ANSI 107 Requirments**



- Class 2 jackets can be combined with Class E pants or overalls to make a Class 3 suit.
- Reflective trim must meet various requirements with regard to placement and configuration.
- Acceptable colors are: Fluorescent Lime-Yellow & Fluorescent Orange.
  - Colors must meet chromaticity and luminance requirements both initially and after 40 ultra-violet fading unit tests.
- Rainwear must meet minimum water penetration and repellency requirements.
- · Minimum requirement established for breathable classification.
- Garments marketed as Flame Resistant, they must meet one of seven standards.
- Class 3 garments must have sleeves.

	Minimum Area Requirement		Widt	Amount (linear feet		
	Meters <sup>2</sup>	Inches <sup>2</sup>	Millemeters	Inches		
Class 1 0.10 m	0.40 2	4 = = 12	25 mm	1"	12.92'	
	0.10 m²	155"2	35 mm	1-3/8"	9.39'	
Class 2	0.10 2	201"2	50 mm	2"	8.375	
	0.13 m <sup>2</sup>	201"2	35 mm	1-3/8"	12.2'	
Class 3	0.22	310"2	50 mm	2"	12.92'	

#### **CSA Z96**



Reflective trim must meet the following requirements for placement:

- · X on the back extending from shoulders to waist
- · 2 vertical stripes on front extending from shoulders to waist
- · Horizontal band around the waist
- · Class 3 requires stripes added to sleeves and legs
- Must maintain 360 degree visibility
- · Allows for "Bright Background Material" for FR applications
- Establishes requirements for Water Repellency, Water Resistance and Water Penetration
- Establishes requirements for breathable materials

#### Minimum areas of high-visibility material (any size garment)

	Class 3 apparel	Class 2 apparel
Description of minimal coverage	Class 2 apparel, plus bands encircling both arms and both legs. These bands shall be composed of combined- performance stripes/bands or a combination of retroflective and background material	Full coverage of upper torso (front, back, sides, and over the shoulders*)
Retroreflective material	0.2 m <sup>2</sup>	0.13 m <sup>2</sup>
Photometric performance†	Level 2	Level 1 or Level 2

\*As a special case, bib-style overalls are recongnized as Class 2 apparel. Bib-style overalls are not required to have retroreflective material over the shoulders, but may include retrofreflective or combined-performance material around the legs.

†Retroreflective or combined-performance materials used on garments intended for FR protection applications may meet performance levels lower than Levels 1 and 2. As a minimum, they shall meet performance levels ("Level FR").

© Canadian Standards Association





Envisage™ is waterproof, breathable, windproof and high visibility protective outerwear. Utilizing a waterproof, breathable film, Envisage™ ensures worker comfort by keeping the worker dry as well as reducing heat body stress during foul weather. During low light situations, the ANSI/ISEA 107 compliant polyester fabric and 3M Scotchlite™ keeps workers visible and safe.

#### **Features & Benefits**

- ANSI 107 Compliant
- Resistance to Water Penetration
- Water Repellency
- **Breathable Material Classification**
- Reduces Worker Heat Stress
- Lightweight
- Soft
- Flexible
- Durable

#### Recommended Applications

- Departments of Transportation
- Railroads
- Airlines
- **Telecommunications**
- CATV
- Meter Readers
- Municipalities





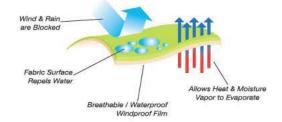




Scotchlite Reflective Material

#### Envisage™ HiVis™ 100 Items 4.25 oz/yd² Polyester/Polyurethane

- 103J Set-in-sleeve style jacket with hood in-collar, 4 snap storm fly front, nylon taffeta lining, 3M Scotchlite 2"
   ANSI 107 Class 2, Level 2 performance, certified fluorescent yellow material, waterproof, breathable, windproof.
- 101P Elastic waist style trouser with fly front, 3M Scotchlite 2" Class E, Level 2 performance, certified fluorescent yellow material, waterproof, breathable, windproof.
- 101T Bib style trouser, snap fly front, elastic suspenders with buckles, 3M Scotchlite 2" reflective trim at knees and ankles. ANSI 107 Compliant Class E.
- 103C 48" length coat, 5-snap front with storm fly, hood-in-collar, attached nylon taffeta liner, 3M Scotchlite 2" reflective trim at biceps, sleeve cuffs, around chest and harness over shoulders, ANSI 107 Class 3, Level 2.



#### Chite Hivis

WorkLite™ HiVis is lightweight, tear resistant, ANSI 107 compliant foul weather gear. WorkLite™ HiVis maximizes worker comfort while providing a high level of visibility to ensure worker safety. Maintains flexibility in cold weather.

#### **Features & Benefits**

**ANSI 107 Compliant** 

Waterproof

Lightweight

Durable

Soft & Flexible

Non-Conductive

#### Recommended Applications

Departments of Transportation

Railroads

Airlines

Telecommunications

CATV

Sanitation Management

Meter Readers

Municipalities

Construction Crews















**WorkLite™ HiVis™ 80 Items** 4.75 oz/yd² 250-denier polyester oxford, polyurethane moisture barrier

- 80J499 Waist length jacket with storm fly front and hood snaps, 3M Scotchlite 2" reflective trim around chest, harness over shoulders and biceps, ANSI 107 Class 3\*, Level 2 performance.
- 80J455 Waist length jacket with storm fly front and hood snaps, 3M Scotchlite 2" reflective trim
  at biceps, sleeve cuffs, around chest and waist, harness over shoulders, ANSI 107 Class 3, Level 2
  performance. Yoke back air flow ventilation system and fall protection access.
- 81P455 Elastic waist and draw cord style trouser with 3M Scotchlite 2" reflective trim, ANSI 107 Class
  E, Level 2 performance.
- H80455 Detachable hood with 5-snap placement
- 80T455 Bib style trouser with snap fly front, 3M Scotchlite 2" reflective trim around knees and ankles, ANSI 107 Class E, Level 2 performance.
- 80C455 48" length coat, with storm fly front and hood snaps, 3M Scotchlite 2" reflective trim at biceps, sleeve cuffs, around chest and waist, harness over shoulders, ANSI 107 Class 3, Level 2 performance.
   Yoke back air flow ventilation system and fall protection access.

\*\* The WorkLite™ HiVis™ # 80J499 is ANSI 107-2004 Class 3 for sizes Medium and higher. The 80J499 size Small is ANSI 107-2004 Class 2 compliant. The WorkLite™ HiVis™ can be customized into ANSI 107-2004 Class 1 and Class 2 versions.

### **WarkChoice HiVis**



WorkChoice™ HiVis is ANSI 107 compliant foul weather gear.

WorkChoice™ is the right choice for economical high visibility protective outerwear.

#### **Features & Benefits**

**ANSI 107 Compliant** 

Waterproof

Soft, Supple Feel

Flexible

Durable

Medium Weight

Limited Chemical Splash Resistance

Limited Flame Resistance

#### Recommended Applications

Departments of Transportation

Construction

Municipalities

Transportation

**Telecommunications** 

CATV

Sanitation Management



















#### WorkChoice™ HiVis™ 500 Items 10 oz/yd² polyester knit, PVC moisture barrier

- 513J221 Waist length jacket, attached hood, mesh vented cape back, fall protection access slit, take up snaps
  at sleeve cuffs, storm fly front with snaps, 3M Scotchlite 2" reflective trim around chest, biceps and harness over
  shoulders, ANSI 107 Class 3, Level 2 performance and compliant design.
- 513C221 48" length coat, attached hood, mesh vented cape back, fall protection access slit, take up snaps at sleeve cuffs, storm fly front with snaps, 3M Scotchlite 2" reflective trim around chest, biceps and harness over shoulders, ANSI 107 Class 3, Level 2 performance and compliant design.
- 501P221 Elastic style trouser with fly front, take up snaps at leg cuffs, 3M Scotchlite 2" reflective trim around knees and ankles, ANSI 107 Class E, Level 2 performance.
- 501T221 Bib style trouser with fly front, elastic suspenders, take up snaps at leg cuffs, 3M Scotchlite 2" reflective trim around knees and ankles, ANSI 107 Class E, Level 2 performance.

#### **Available Colors**





Fluorescent Orange Fluorescent Lime Yellow

WorkLite™ is lightweight yet highly durable foul weather protection designed for many industrial applications. Maintains flexibility in cold weather.

#### Features & Benefits

Waterproof Lightweight Soft & Flexible Durable Non-Conductive

Limited Flame Resistance

#### Recommended **Applications**

Construction Municipalities Tree Trimming Transportation **Telecommunications** CATV Food Processing









WorkLite™ 80 Series Items 4.5 oz/yd² 200-denier nylon oxford, polyurethane

- 80J Waist length jacket, corduroy lined collar, hood snaps, snap front with storm fly.
- 81J Waist length jacket, attached hood, snap front with storm fly.
- 80T Bib style trouser, snap fly front, elastic suspenders with buckles.
- 81T Bib style trouser, plain front, elastic suspenders with buckles.
- 80P Waist style trouser, snap fly front, drawcord waist.
- 81P117 Waist style trouser, plain front, elastic waist.
- 81C468 48" length hooded coat, snap front with storm fly, two pockets with flaps, tail vent.
- H80 Detachable hood, one size fits all.

WorkLite™ 80 Series for Food Processing Items 4.5 oz/yd² 200-denier nylon oxford, reversed polyurethane moisture barrier (on outside of garment)

- 800J117 Waist length jacket, self material collar, hood snaps, snap front with storm fly.
- 801J Waist length jacket, attached hood, snap front with storm fly.
- 801T Bib style trouser, plain front, elastic suspenders with buckles.
- 801P Waist style trouser, plain front, elastic waist.
- H800 Detachable hood, one size fits all.



## Work Fard"

WorkHard™ is a durable, heavy duty protective product designed for food processing and sanitation applications. With an exterior coating, it easily sheds water, oils and sanitation chemicals while it resists being broken down by fats and acids. Sealed seams, metal hardware, and a rugged material extend its life cycle.

#### **Features & Benefits**

Waterproof

Lightweight

Durable

Dielectrically Welded Seams

Abrasion Resistant

Long Life Cycle

#### Recommended Applications

Meat Packing

Poultry Processing

Sanitation Crews

**Produce Processing** 

**Dairy Processing** 





WET ENVIRONMENT



RUGGED ENVIRONMENT



CAUSTIC ENVIRONMENT

WorkHard™ 60 Items 5.5 oz/yd² 210-denier nylon, tough polyurethane moisture barrier

- 60J Waist length jacket, self material collar, hanger loop, metal snap front with storm fly.
- 61J Waist length jacket, attached hood, metal snap front with storm fly.
- 61T Bib style trouser, plain front, elastic suspenders with metal buckles and metal buttons.

#### **Available Colors**





Spanish Green Yellow

## Warkfuff

WorkTuff™ is lightweight yet very rugged and durable. Designed for rough work environments, it will protect the worker from the abrasive nature of the job as well as extreme foul weather.

#### **Features & Benefits**

Waterproof

Lightweight

Durable

**Abrasion Resistant** 

Soft

Flexible

Non-Conductive

#### Recommended Applications

Forestry

**Food Processing** 

Fishing

Park Services







FALLING TIMBER ZONE



#### WorkTuff™ 600 Series Items 4.5 oz/yd² nylon oxford, polyurethane moisture barrier

- 600J Waist length jacket, corduroy lined collar, hood snaps, hanger loop, snap front with storm fly.
- 601J Waist length jacket, attached hood, hanger loop, snap front with storm fly.
- • 601T Bib style trouser, snap fly front, hanger loop, elastic suspenders with buckles.
- • 600T Bib style trouser, plain front, hanger loop, elastic suspenders with buckles.
- 6 12C 38" length parka, attached hood, hanger loop, zipper storm front with snaps, wind cuffs, and two pockets with flaps.
- • H600 Detachable hood, one size fits all.

#### **Available Colors**







Yellow

Green

Electric Blue

## WorkClassic



rkClassic™ offers time-tested durability and protection for workers in ged and demanding industrial work environments. Its soft, reinforced er fabric adds to the comfort, making this a great product for many plications.

#### atures & Benefits

Waterproof
Heavy Duty
Durable
Tear Resistant
Classic Ribbed Exterior
Soft, Fleece-Like Lining
Limited Chemical
Splash Resistance
Limited Flame Resistance

#### Recommended Applications

Construction
General Industry
Pulp & Paper Mills
Food Processing
Municipalities







#### WorkClassic<sup>™</sup> 90 Series Items 11 oz/yd<sup>2</sup> gang-stitched polyester, PVC moisture barriers

- 91JY Waist length jacket, corduroy tipped collar, hood snaps, snap front with storm fly.
- 93JY Waist length jacket, attached hood, snap front with storm fly.
- 90TY Bib style trouser, plain front, elastic suspenders with buckles.
- 91TY Bib style trouser, snap fly front, elastic suspenders with buckles.
- 90CY 48" length coat, self material collar, snap front with storm fly, two patch pockets with flaps, cape back.
- 91CY 54" length coat, self material collar, snap front with storm fly, two patch pockets with flaps, cape back.
- H90Y Detachable hood, one size fits all.

## Work Track<sup>™</sup>

WorkTrack™ is a cost effective way to provide durable, yet comfortable protective outerwear for many work environments. Its soft pile lining pulls moisture away from the body to keep you warm in the winter and cool in the summer.

#### **Features & Benefits**

Waterproof Lightweight Classic Ribbed Exterior Soft, Fleece-Like Lining **Limited Chemical** Splash Resistance Limited Flame Resistance

#### Recommended **Applications**

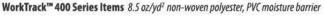
General Industry Agriculture Municipalities Construction











- 401J Waist length jacket, self material collar, hood snaps, snap front with storm fly.
- 403J Waist length jacket, attached hood, snap front with storm fly.
- 405T Bib style trouser, plain front, elastic suspenders with buckles.
- 406T Bib style trouser, snap fly front, elastic suspenders with buckles.
- H400 Detachable hood, one size fits all.

#### **Available Colors**





Yellow

Green





The WorkBasic™ is the classic double-coated, lightweight and economical solution for many industrial needs. Its nylon scrim fabric provides a rip-stop characteristic that keeps punctures from becoming tears.

#### Features & Benefits

Waterproof
Lightweight
Long Lifecycle
Tear Resistant
Abrasion Resistant
Limited Chemical
Splash Resistance
Limited Flame Resistance

#### Recommended Applications

Construction General Industry Municipalities Chemical Handling







RUGGED ENVIRONMENT



#### WorkBasic™ 300 Series Items 9 oz/yd² double coated PVC, nylon scrim

- 9 310J Waist length jacket, self material collar, snap front with storm fly.
- 9 311J Waist length jacket, attached hood, snap front with storm fly.
- 300T Bib style trouser, plain front, elastic suspenders with buckles.
- 301T Bib style trouser, snap fly front, elastic suspenders with buckles.
- 300C 48" length coat, self material collar, snap front with storm fly, two patch pockets.
- H300 Detachable hood, one size fits all.

#### **Available Colors**



Yellow

International Orange

## AcidBasic SULFURIC

AcidBasic<sup>™</sup> is an economical solution for light chemical splash hazards. It is designed to be used where there may be incidental contact with general industrial chemicals. AcidBasic<sup>™</sup> is ideal for chemical handling that requires a reusable product.

#### **Features & Benefits**

Waterproof
Chemical Splash Resistance
Heavy Duty
Durable
Limited Flame Resistance

#### Recommended Applications

Chemical Plant
Maintenance
Chemical Handling
General Industry
Food Processing
Sanitation
Petro-Chemical







AcidBasic™ 50 Series Items 12 oz/yd² polyester knit, heavy PVC coating

- 52JG Waist length jacket, self material collar, hidden snap front with storm fly.
- 512JG Waist length jacket, attached hood, hidden snap front with storm fly.
- 52TG Bib style trouser, plain front, elastic suspenders with buckles.
- 528CVG Premium coverall, attached hood, zipper front with hidden snaps inner splash cuffs.
  in legs and sleeves.
- H52G Detachable hood, one size fits all.

#### **Available Color**



## Wark Best



WorkBest™ is a heavy duty, double coated neoprene rain suit. Ideal for the most rugged industrial environments, WorkBest™ is the premier and most durable neoprene protective outerwear product.

#### **Features & Benefits**

Waterproof

**Heavy Duty** 

Durable

**Abrasion Resistant** 

**Puncture and Tear Resistant** 

**Limited Chemical** 

Splash Resistance

#### Recommended Applications

Fishing

Forestry

Logging

Mining

Petrochemical

Construction

Pulp & Paper Mills







RUGGED ENVIRONMENT

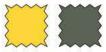


FALLING TIMBER ZONE

#### WorkBest™ 70 Series Items 12 oz/yd² 210-denier nylon, neoprene moisture barriers

- 70J Waist length jacket, corduroy lined collar, snap front with storm fly.
- 71J Waist length jacket, attached hood, snap front with storm fly.
- 70T Bib style trouser, snap fly front, elastic suspenders with buckles.
- 71T Bib style trouser, plain front, elastic suspenders with buckles.
- H70 Detachable hood, one size fits all.

#### **Available Colors**



Yellow Green

#### Size Chart

	9	Jacket/Coat		Bib Trouser/Waist Pant						
Size	Fits Ac Chest Ch Size S		Sleeve Length	Jacket Length	Size	Fits Waist Size	Actual Overall Waist	Inseam Length		
Small	36-38"	46"	33"	29"	Small	32-34"	42"	29"		
Medium	40-42"	50"	33.5"	29"	Medium	36-38"	46"	29"		
Large	44-46"	54"	34"	29"	Large	40-42"	50"	29"		
X Large	48-50"	58"	34.5"	29"	X Large	44-46"	54"	29"		
XX Large	52-54"	62"	35"	29"	XX Large	48-50"	58"	29"		
XXX Large	56-58"	66"	35.5"	29"	XXX Large	52-54"	62"	29"		
XXXX Large	60-62"	70"	36"	29"	XXXX Large	56-58"	66"	29"		
XXXXXL	64-66"	74"	36.5"	29"	XXXXXL	60-62"	70"	29"		

Sizes M-5XL are available in Longs and Talls. Longs have 2 inches added to the jacket length, sleeves and bib trouser or waist pant inseam. Talls have 4 inches added to the jacket length, sleeves and bib overall inseam.

#### All NASCO raingear patterns are digitally mastered and cut ensuring that you get the right size garment every time.

#### **Logo Options**

NASCO has the ability to create high quality corporate images on our products using ink silk-screening, single and multicolor heat transfers, and reflective logos using 3M Scotchlite technologies.

#### Silk-Screen Images

Silk Screen: A one time set-up charge will be applied to your order. There will be charges for artwork designs unless camera-ready artwork is provided.

#### **Heat Transfer Images**

Permanent heat transfer images are available in single and multi-colored options. Heat transfers offer the highest quality image possible for raingear. Camera-ready artwork is necessary for price quotes.

#### Reflective Images

3M Scotchlite reflective images are available for all NASCO raingear. Camera-ready artwork is necessary for price quotes.

## Available Colors Yellow Green Spanish Yellow Kelly Green Navy Black International Orange Fluorescent Lime Yellow Orange

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	AND THE RESIDENCE OF THE PARTY		200			11.5	Sec. 10, 100 mg						-	

Key to Degradation Ratings: E = Excellent; G = Good; F = Fair; P = Poor; NR = Not Recommended; NT = Not Tested

RISK CODES RATINGS: Tx = HIGHLY TOXIC; X = HAZARDOUS TO HEALTH (LESS TOXIC); T = TOXIC; X = IRRITANT; Cx = HIGHLY CORROSIVE; S = SENSITIZATION; C = CORROSIVE; V = POTENTIALLY HARMFUL; Cg = POTENTIAL CARCINOGEN; V = POTENTIALLY HARMFUL; V = POTENTIAL CARCINOGEN; V = POTENTIAL CARCINOGEN

G

G

Phosphoric Acid 86%

7664-93-9

7664-93-9

Cx

Sulfuric Acid 93%

Sulfuric Acid - <30%

This chart is intended to be used only as a guideline. It is the responsibility of the user to determine the specific suitability of any particular product used against any chemical. Please contact NASCO to obtain material swatches for verification of material appropriateness.

## QUALITY SAFETY COMFORT INNOVATION



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