

**NORTH**

**PROTECTIVE**

**CLOTHING**



# **NORTH** Safety Products

North Safety Products is the most diversified manufacturer of Safety and Personal Protective Equipment (PPE) in the world, with fifteen complete product lines, manufactured in ISO 9000 certified plants and employing over 3,000 people throughout the world.

North works closely with distributors and end users alike through innovative product design, quality manufacturing, solid marketing, training and support to our customers. Our goal is to enhance worker safety, improve productivity, and create confidence on the job and in the market place.

## **PROTECTIVE CLOTHING**

North has manufactured protective clothing of a wide variety now for over 30 years. We offer a full line of garments, which are disposable, reusable, rainwear, aluminized high heat clothing or welder's protective clothing. Plus a full line of accessories including aprons or sleeves, made for summer or winter use, with or without fire retardant coating. Most clothing is manufactured and designed in compliance with CSA and ANSI/ISEA 101.1996 or NFPA standard.

North has a close working relationship with DuPont, who is the manufacturer of Tyvek®, NOMEX® and Kevlar® material, which is extensively used in our manufacturing process. North also uses many other well known suppliers such as Westex, Difco, Glen Raven etc. for other fine materials. North's garments offer the ultimate in comfort and performance. North Safety Products strives to develop leading edge products that exceed our customers needs, while ensuring that the work environment is a safer place.

**HEAD PROTECTION**



**EYE & FACE PROTECTION**



**HEARING PROTECTION**



**RESPIRATORY PROTECTION**



**WELDING PRODUCTS**



**HAND PROTECTION**



**DISASTER PREPAREDNESS**



**FALL PROTECTION**



**PROTECTIVE CLOTHING**



**FIRST AID PRODUCTS**



**PROTECTIVE FOOTWEAR**



**TRAFFIC SAFETY PRODUCTS**



**ELECTRICAL SAFETY PRODUCTS**



**SIGNS AND LOCKOUTS**



**CONSUMER PRODUCTS**



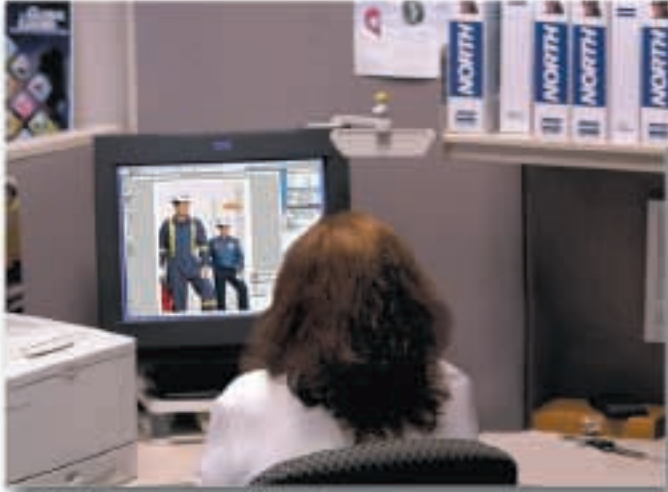
## **Affiliated Companies**



**NORTH**

# Protective Clothing

## Research and Development



Computer-aided design integrates our expertise in ergonomics and manufacturing. New products are developed, manufactured and tested for performance, fit and durability. They are also evaluated by consumers for comfort, performance and fit.

## Manufacturing

North uses state of the art computer designing, cutting equipment and automatic spreader that maximize the use of material and ensures consistency in sizing. We also provide our sewers, the most modern and up to date sewing machines with a spacious and comfortable work environment, equal to none in this industry.

## Training



As a world-class manufacturer of Personal Protective Equipment, North offers a wide variety of comprehensive in-house and on-site training programs on all product lines.



## Quality and Standards Testing

North's experienced work force and management follow the strict guidance of ISO 9001 quality control program, in order to insure the consistency and the quality needed to succeed in this industry. Each and every piece of manufactured goods that leave our facilities have been fully inspected and are guaranteed to be free of any defects.

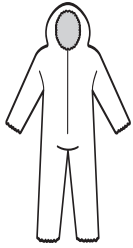
**NORTH** Safety Products

# NORTH GEN

## DISPOSABLE COVERALLS



## NORTH GEN "AIR" SERIES



85596

### CE Type 5 & 6 for noxious dust and splash

The North Gen "AIR" coverall is made from a new revolutionary fabric which is soft and breathable. It offers superior resistance to noxious dust and splash in accordance with CE type 5 and 6. It is low lint and therefore ideal for use in a wide range of application where the wearer needs protection and the environment must not be contaminated with fibers from the garment.

North Gen "AIR" is vented and breathable therefore very comfortable to wear - even for long period of time.

### Features/Benefits

- Knitted cuffs improve interface with glove
- Elastic ankles and waist to reduce inward contaminations
- 2 way zip with a resealable taped storm flap to reuse the garment
- Lint free to limit contamination of surfaces
- Hood and enclosed neck to prevent inward contamination
- Ergonomic pattern for greater user comfort
- Silicon free components to prevent product contamination

Part #	Description	Sizes
85596	Coverall with attached hood, knitted cuff, elastic waist & ankles, 2 way zip and resealable storm flap, white color	S to 4XL

## NORTH GEN "FR" SERIES



25596

### CE Type 5 & 6 for noxious dust and splash

### NFPA701 and EN533 Index 1 for Flame Retardency

The North Gen "FR" Coverall is made from a unique combination of non-woven fabrics and meets with CE Type 5 & 6 protection which means that it is resistant to noxious dust, oil & chemical splashes and also anti-static to meet with EN1149-1. The North Gen "FR" Coverall is also now Flame Retardant to NFPA701 and EN533 Index 1.

The fabric is breathable and therefore very comfortable to wear - even for long periods of time. The North Gen "FR" Coverall is ideal for a wide range of applications and has been designed to be both practical and comfortable with a 2-way zip, elastic waist and a generous cut.

### Features/Benefits

- Elastic wrist to reduce entry of contaminant
- Elastic ankles and waist to reduce inward contaminations
- 2 way zip with a resealable taped storm flap to reuse the garment
- Hood and enclosed neck to prevent inward contamination
- Ergonomic pattern for greater user comfort
- Silicon free components to prevent product contamination

Part #	Description	Sizes
25596	Coverall with attached hood, elastic waist, wrist & ankles, 2 way zip and resealable storm flap, green color	S to 4XL

## NORTH GEN "PRO" SERIES



35596

### CE Type 5 & 6 for noxious dust and splash

The North Gen Pro Coverall is made from a unique combination of non-woven fabrics and meets with CE Type 5 & 6 protection which means that it is resistant to noxious dust and splash.

The fabric is breathable and therefore very comfortable to wear - even for long periods of time.

The North Gen Pro Coverall is ideal for a wide range of applications and has been designed to be both practical and comfortable with a 2-way zip, storm flap and a generous cut.

### Features/Benefits

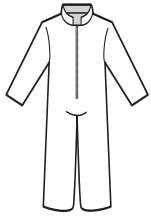
- Knitted cuffs improve interface with glove
- Elastic ankles and waist to reduce inward contaminations
- 2 way zip with a resealable taped storm flap to reuse the garment
- Hood and enclosed neck to prevent inward contamination
- Ergonomic pattern for greater user comfort
- Silicon free components to prevent product contamination

Part #	Description	Sizes
35596	Coverall with attached hood, knitted cuff, elastic waist & ankles, 2 way zip and resealable storm flap, blue color	S to 4XL
35595	Coverall with front zipper, attached hood, chest and hip pocket, elastic waist, closed neck, not CE certified, elastic face opening, wrists & ankles	S to 3XL
35767	Boot cover with elastic top, 10" (25 cm) high	One size

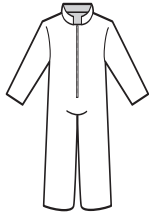
**TYVEK®**

**DISPOSABLE CLOTHING**

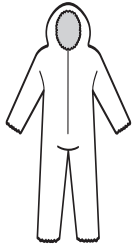




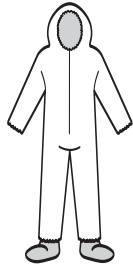
55555



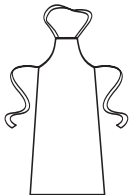
55545



55595



55515



55765



55707



55710



55575



55755



55705



55766



55766FC



55766S



55767



55767S



55615

## A Proven Performer with Generous Sizing

No other limited-use fabrics presently available in the market place offer the comparable protection and comfort as TYVEK®. Unsurpassed for dry particulate protection it is ideal when your workers are exposed to or involved with agriculture, asbestos abatement, dry chemical, dust & dirt, emergency medical service, spray and radioactive dust. Low linting and static-free until laundered.

### Features/Benefits

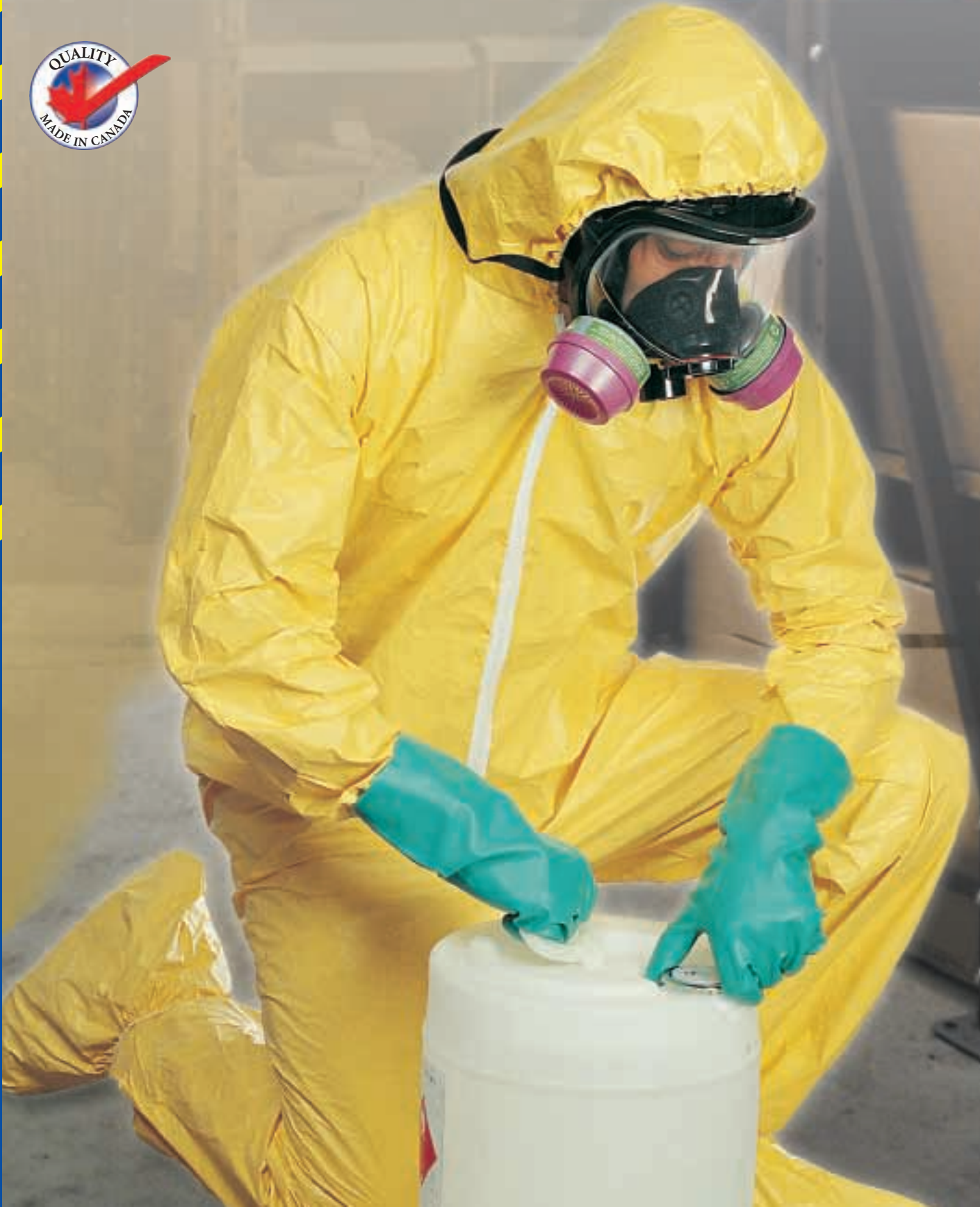
- TYVEK® is made of Spunbonded Olefin
- Ideal for dry particulate protection
- Low-linting and anti-static
- Perform in many industrial and agricultural applications
- Overlock seams
- Generous sizing for added mobility and comfort

Part #	Description	Sizes
55555	Coverall with front zipper, collar	S to 3XL
55545	Coverall with front zipper, collar, elastic wrists & ankles	S to 3XL
55595	Coverall with front zipper, attached, elastic face opening, wrists & ankles	S to 3XL
55515	Coverall with front zipper, attached hood & boots, elastic face & wrists	S to 3XL
55765	Bib apron 30" X 36" (76 cm X 91 cm)	One size
55707	Lab coat (full), 48" (122 cm) length with 4 snaps front, collar	S to 2XL
55710	Shirt, 4 snaps at front, collar	S to XL
55575	Pant with elastic waist band 1/4" (0.6 cm)	S to 2XL
55575/1	Pant with elastic waist band 1" (2.5 cm)	S to XL
55755/18, 21 OR 24*	Sleeves with elastic opening	18", 21" or 24"
55705	Bouffant elasticized	One size
55766	Shoe cover 5" (13 cm) high with elastic top	One size
55766FC	Shoe cover 5" (13 cm) high, friction coated, elastic top, skid resistant sole	One size
55766S	Shoe cover 8.5" (22 cm) high, elastic top, PVC sole (S for ladies and L for men's)	S or L
55767	Boot cover 10" (25 cm) high, elastic top	One size
55767S	Boot cover 17" (43 cm) high, elastic ankle & top, PVC sole (S for ladies and L for men's)	S or L
55615	Hood pullover, elastic face opening, cover shoulders	One size

\*When ordering please add "18" for 18 inches, "21" for 21 inches or "24" for 24 inches at the end of part number.

# POLYETHYLENE

COATED TYVEK®



# SPLASHGUARD 65 SERIES



65545



65595



65515



65765



65615



65767

## Basic Chemical Protection

North Splashguard 65 Series is made with TYCHEM® QC which offers excellent splash protection against many inorganic acids, bases and other liquid chemicals. Combining the toughness of TYVEK® fabric with a quality coating of 1.25 mils of polyethylene, TYCHEM® QC is ideal for general use in industrial plants, pharmaceutical manufacturing and many type of clean-up operations. With a total thickness of 6.25 mm, TYCHEM® QC is virtually unaffected by most organic and inorganic chemicals and particulates and in most commonly used for “LEVEL C” protection. Tested against biohazards.

## Features/Benefits

- Made of TYVEK® with a quality coating of 1.25 mils of polyethylene.
- Provide splash protection from many chemicals and dry particulates.
- Yellow in color North TYCHEM® QC garments are available with overlock seams for basic protection.
- Lightweight and flexible
- Cold weather performance

Part #	Description	Sizes
65545	Coverall with front zipper, collar, elastic wrists & ankles	S to 3XL
65595	Coverall with front zipper, attached hood, elastic face opening, wrists & ankles	S to 3XL
65515	Coverall with front zipper, attached hood & boots, elastic face opening, wrists & ankles	S to 3XL
65765	Apron of 30" X 36" (76 cm X 91 cm)	One size
65615	Hood pullover, elastic face opening, cover shoulders	One size
65767	Boot cover with low elastic top, 10" (25 cm) high	One size

## Tychem® QC

### Permeation Information on Common Industrial Chemicals

CHEMICAL NAME	PHYSICAL STATE	CAS #	AVERAGE NORMALIZED BREAKTHROUGH TIME <sup>1A</sup>	CHEMICAL NAME	PHYSICAL STATE	CAS #	AVERAGE NORMALIZED BREAKTHROUGH TIME <sup>1A</sup>
Acrylonitrile	L	107-13-1	382	Lithium chloride, 20%	L	7447-41-8	>480
Black liquor	L	123465-36-1	>480	Lithium hydroxide, 20%	L	1310-65-2	>480
Chlorine gas, 20ppm	G	7782-50-5	>480	Nitric acid, 70%	L	7697-37-2	410
Chromic acid, 60%	L	1333-82-0	>480	Oleum, 40% free SO <sub>3</sub>	L	8014-95-7	398
Ethylene glycol	L	107-21-1	>480	Sodium hydroxide, 50%	L	1310-73-2	>480
Green liquor	L	68131-30-6	>480	Sodium hypochlorite, 17%	L	7681-52-9	>480
Hydrofluoric acid, 48%	L	7664-39-3	>480	Sulfuric acid	L	766-93-9	>480
Hydrogen peroxide, 70%	L	7722-84-1	>480	White liquor	L	68131-33-9	>480

L = liquid

G = gas

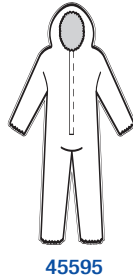
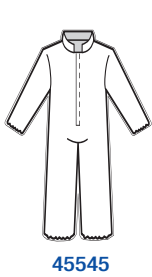
> = greater than

<sup>1A</sup> Normalized Breakthrough Time shown in minutes

# TYCHEM® SL

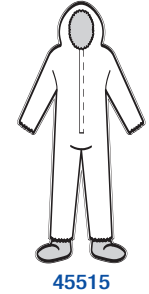
CHEMICAL PROTECTIVE APPAREL





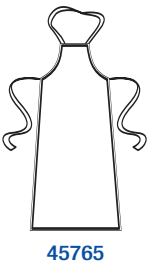
## For Greater Chemical Protection

North Chemguard 45 Series is made of Tyvek® laminated with Saranex 23-P film from Dow Chemical Co. provides protection against a broader range of chemicals than Tyvek® QC. This white multilayered Tyvek® Saranex 23-P 8 mils thick material is superior for barrier protection from hazardous liquids, toxic chemicals and minute particulates. It's high tensile and tear strength plus its good puncture and abrasion resistance make these limited-use garments suitable for LEVEL B protection against many inorganic acids, bases and salts as well as certain hydrocarbons and alcohols. North Tyvek® Saranex® 23-P garments are available with Bound seams and flap over front zipper.



## Features/Benefits

- Multi-layered material.
- Provide protection against a wide range of chemicals, hazardous liquids, minute particles and many other potentially harmful agents.
- Available with Bound seams and storm flap over front zipper.
- Cold weather performance



Part #	Description	Sizes
45545	Coverall with front zipper with storm flap, collar, elastic wrists & ankles	S to 3XL
45595	Coverall with front zipper with storm flap, attached hood, elastic face opening wrists & ankles	S to 3XL
45515	Coverall with front zipper with storm flap, attached hood & boots, elastic face opening and wrists	S to 3XL
45709	Long sleeve apron with open back, snap at neck, elastic wrists, wraparound waist tie	S to XL
45765	Apron of 30" X 36" (76 cm X 91 cm)	One size
45767	Boot cover with low elastic top, 10" (25 cm) high	One size

## Tychem® SL

### Permeation Information on Common Industrial Chemicals

CHEMICAL NAME	PHYSICAL STATE	CAS #	AVERAGE NORMALIZED BREAKTHROUGH TIME <sup>1A</sup>	CHEMICAL NAME	PHYSICAL STATE	CAS #	AVERAGE NORMALIZED BREAKTHROUGH TIME <sup>1A</sup>
Acetic acid	L	64-19-7	>480	Methanol	L	67-56-1	>480
Black liquor	L	123465-36-1	>480	Mineral spirits	L	64475-85-0	>480
Chromic acid, 60%	L	1333-82-0	>480	Nitric acid, 70%	L	7697-37-2	>480
Ethylene glycol	L	107-21-1	>480	Phenol, 85%	L	108-95-2	>480
Green liquor	L	68131-30-6	>480	Phosphoric acid, 85%	L	7664-38-2	>480
Hydrazine	L	302-01-2	>480	Sodium hydroxide, 50%	L	1310-79-2	>480
Hydrochloric acid, 37%	L	7647-01-0	>480	Sodium hypochlorite, 17%	L	7681-52-9	>480
Hydrofluoric acid, 48%	L	7664-39-3	>480	Sulfuric acid	L	7664-93-9	>480
Mercuric chloride, sat. sol. in water	L	7487-94-7	>480	White liquor	L	68131-33-9	>480

L = liquid

G = gas

> = greater than

<sup>1A</sup> Normalized Breakthrough Time shown in minutes

# ARC FLASH 70E

AND FLAME RESISTANT  
PROTECTIVE  
APPAREL



ARCFlash 70E



## ARC FLASH AND FR COVERALLS

NFPA 2112 and 70E compliant



Cool Blue



Navy Blue

### Features/Benefits

- Multiple large pockets
- Comfortable all season, light-weight fabrics
- Action back on coverall for more room and mobility of the shoulders

- Covered buttons and zipper
- Available in various sizes from 38 to 62

Part #	Description	Hazard Risk Category (HRC)	Sizes
CKA176/B	North Arc Flash Coverall, 4.5 oz., cool blue	1	38-62
CKB176/B	North Arc Flash Coverall, 6.5 oz., cool blue	2	38-62
CKA176/N	North Arc Flash Coverall, 4.5 oz., navy blue	1	38-62
CKB176/N	North Arc Flash Coverall, 6.5 oz., navy blue	2	38-62

## ARC FLASH AND FR HIGH-VISIBILITY COVERALLS

NFPA 2112 and 70E compliant



Cool Blue



Navy Blue

### Features/Benefits

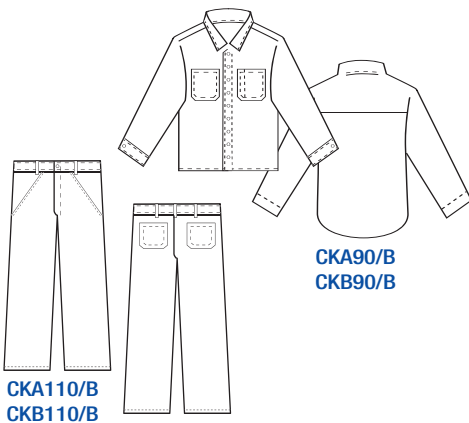
- Multiple large pockets
- Comfortable all season, light-weight fabric
- FR retro-reflective material increases conspicuity in low visibility situations

- Elastic back for better fit
- Covered buttons and zipper
- Available in various sizes from 38 to 62

Part #	Description	Hazard Risk Category (HRC)	Sizes
TKA176/B	North Arc Flash Coverall, 4.5 oz., cool blue, retro-reflective tape	1	38-62
TKB176/B	North Arc Flash Coverall, 6.5 oz., cool blue, retro-reflective tape	2	38-62
TKA176/N	North Arc Flash Coverall, 4.5 oz., navy blue, retro-reflective tape	1	38-62
TKB176/N	North Arc Flash Coverall, 6.5 oz., navy blue, retro-reflective tape	2	38-62

## ARC FLASH AND FR SHIRTS AND PANTS

NFPA 2112 and 70E compliant



CKA90/B  
CKB90/B

CKA110/B  
CKB110/B



Cool Blue



Navy Blue

### Features/Benefits

- Multiple large pockets
- Comfortable all season, light-weight fabric
- Pen and pencil slots

- High quality assembly for a longer life garment
- Available in various sizes from M to 3XL (shirt) and 30 to 46 (pant)

Part #	Description	Hazard Risk Category (HRC)	Sizes
CKA90/B	North Arc Flash Shirt, 4.5 oz., cool blue	1	M to 3XL
CKB90/B	North Arc Flash Shirt, 6.5 oz., cool blue	2	M to 3XL
CKA110/N	North Arc Flash Pant, 4.5 oz., navy blue	1	30-46
CKB110/N	North Arc Flash Pant, 6.5 oz., navy blue	2	30-46

# FLAME RETARDANT & GENERAL USE

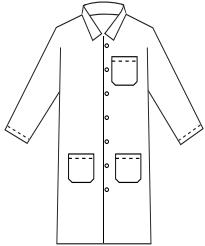
PROTECTIVE CLOTHING



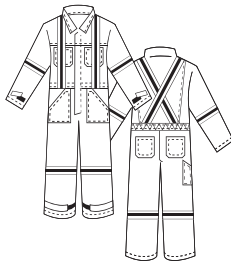
## FLAME RETARDANT & FLAME RESISTANT SUMMER WEIGHT WORK CLOTHING



CW175  
CN175  
CIW175



CN210



TN175YG  
TI175YG



Royal Blue



Navy Blue

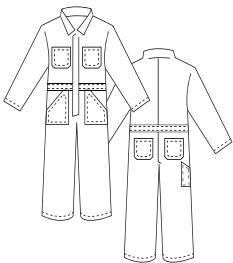
This line of garments are made either of flame retardant Ultrasoft and Proban from Westex or flame resistant NOMEX® from DuPont. These materials have proven track records and are world recognized for their quality and durability.

### Features / Benefits

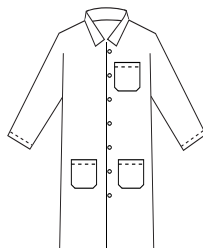
- Excellent design for comfort and durability
- Available in sizes: 38 to 62 or S to 3XL as shown below
- Available in regular and tall lengths
- Available in two popular colors : Navy Blue and Royal Blue

Part #	Description	Sizes
CW175	Flame retardant coverall made of 9 oz Westex Proban Cotton with front zipper closure, royal blue or navy color, regular and tall lengths	38 to 62
CN175	Flame resistant coverall made with 6.2 oz NOMEX® IIIA fabric with front zipper closure, NFPA 70E category 1, NFPA 2112, royal blue or navy color, regular and tall lengths	38 to 62
CN210	Flame resistant men's shop coat made with 6.2 oz NOMEX® IIIA fabric, royal blue color	S to 3XL
TN175YG/ RB	Flame resistant coverall made of 6.2 oz NOMEX® IIIA fabric with 2" yellow/silver retro-reflective stripes, NFPA 70E Category 1, royal blue color	S to 3XL
TI175YGRB	Flame retardant coverall made of 9 oz. Indura Ultra Soft cotton with yellow-green and silver retro-reflective stripes and front zipper closure, NFPA 2112, NFPA 70E, Category 2, Royal blue color	38 to 62
CIW175/RB	Flame retardant coverall made of 9 oz. Indura Ultra Soft cotton with zipper closure, NFPA 2112, NFPA 70E, Category 2, Royal blue color	38 to 62

## COTTON / POLYESTER SUMMER WEIGHT WORK CLOTHING



CPC175/B



CPC210



Navy Blue

These work clothes are made of a high quality polyester/cotton blend (65% polyester/35% cotton). All material used or accessories are of the highest quality. The coveralls are available in standard length in navy blue color only.

### Features / Benefits

- Made of polyester/cotton blend (65% polyester/35% cotton)
- Weight 8 oz
- Coverall has zipper closure and shop coat has snap closure
- Overlock seams
- Coverall has (2) chest pockets (2) hip pockets (2) back pockets (1) tool pocket
- Shop coat has (1) chest pocket (2) hip pockets and snap closure
- Available sizes: Coverall: 38 to 56, Shop coat: S to 3XL

Part #	Description	Sizes
CPC175/B	Coverall with front zipper closure, 8 oz, navy blue color	38 to 56
CPC210	Men's shop coat, 8 oz, navy blue color	S to 3XL

# WINTER WORK

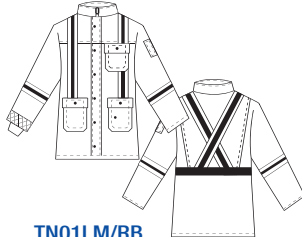
## PROTECTIVE CLOTHING



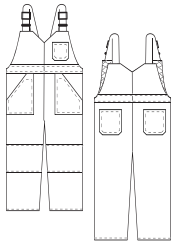
## FLAME RETARDANT & FLAME RESISTANT WINTER WORK CLOTHING



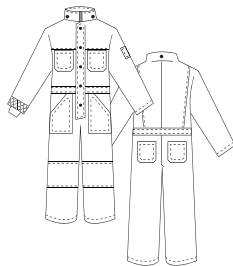
CW01LC  
CN01LM



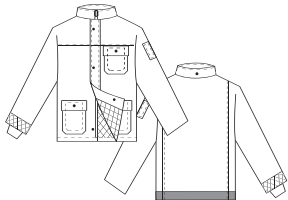
TN01LM/RB



CW130LC  
CN130LM



CN150LM



CW30LC  
CN30LM



Royal Blue



Navy Blue

This insulated line of garments are made either of flame retardant Ultrasoft and Proban from Westex or flame resistant NOMEX® from DuPont. These materials have proven track records and are world recognized for their quality, durability, fire retardant and fire retardant capabilities. Outer shell made of either 9 oz Westex Proban or 6.2 oz fabric made of DuPont NOMEX® fiber. Inner lining made out of FR Modacrylic.

### Features / Benefits

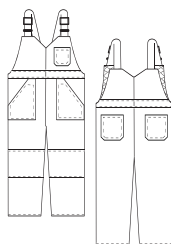
- Designed for comfort and durability
- Available in sizes S to 3XL
- Available in regular and tall lengths
- Available in two popular colors: Navy Blue and Royal Blue

Part #	Description	Sizes
CW01LC	Flame retardant insulated artic parka made of 9 oz Westex Proban Cotton (outer shell), royal blue or navy color	S to 3XL
CN01LM	Flame resistant insulated artic parka made with 6.2 oz NOMEX® IIIA fabric (outer shell) and Modacrylic (lining), royal blue color	S to 3XL
TN01LM/RB	Flame retardant insulated artic parka made of Nomex IIIA (6.2 oz) (outer shell) with FR yellow-green and silver triple trim retro-reflective material and modacrylic lining. NFPA 70E HRC Category 1, royal blue color	S to 3XL
CW130LC	Flame retardant insulated bib overall with leg zipper, made of 9 oz Westex Proban, royal blue or navy color, regular and tall lengths	S to 3XL
CN130LM	Flame resistant insulated bib overall with leg zipper, made with 6.2 oz NOMEX® IIIA fabric (outershell) and Modacrylic (lining), royal blue color, regular and tall lengths	S to 3XL
CN150LM	Flame resistant insulated coverall, made with 6.2 oz NOMEX® IIIA fabric (outer shell) and Modacrylic (lining), royal blue color, regular and tall lengths	S to 3XL
CW30LC	Flame retardant insulated bomber jacket made of 9 oz Westex Proban Cotton (outer shell), royal blue or navy color, regular and tall lengths	S to 3XL
CN30LM	Flame resistant insulated bomber jacket made with 6.0 oz NOMEX® IIIA fabric (outer shell) and Modacrylic (lining), royal blue color, regular and tall lengths	S to 3XL

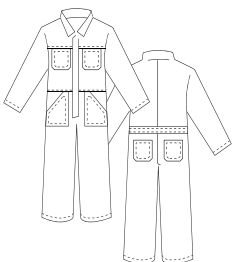
## COTTON / POLYESTER WINTER WORK CLOTHING



CPC01LPH



CPC130LP



CPC157LP



Navy Blue

Insulated work clothes are made of a high quality polyester/cotton blend (65% polyester / 35% cotton). All the accessories, zippers, buttons and treads are of the highest quality and the make up is up to North top quality standard. The coveralls are available in standard length in navy blue color only.

### Features / Benefits

- Made of polyester/cotton blend (65% polyester / 35% cotton)
- Polyester lining 180 gr.
- Overlock seams
- Generous cut
- Comfortable design
- Available in sizes: S to 3XL

Part #	Description	Sizes
CPC01LPH	Insulated artic parka with hood, navy blue color	S to 3XL
CPC130LP	Insulated bib overall with leg zipper, navy blue color, regular lengths	S to 3XL
CPC157LP	Insulated coverall with leg zipper, navy blue color, regular lengths	S to 3XL

# RAINWEAR



## Xtreme FR Rain Gear

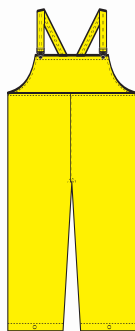
This new high performance rain gear is made of heavy duty PVC on nylon, which is flame retardant, water repellent, abrasion resistant and has good chemical hold out. Sizing is generous, hardware used in its construction is rust proof. Seams are sealed.

### Features/Benefits

- 45mil Flame Retardant PVC on polyester
- Durable construction
- Heat sealed seams
- Available in yellow, orange or light green



A4016Y



A4015Y



Hi-Viz Orange



Light Green



Yellow

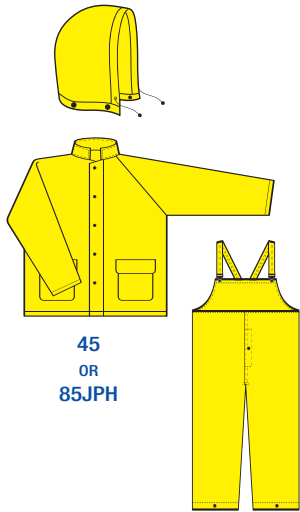
### Jacket

Part #	Description	Sizes
A4016	"Xtreme FR Rain Gear" jacket, 30" (76 cm) long, orange color	S to 3XL
A4016Y	"Xtreme FR Rain Gear" jacket, 30" (76 cm) long, yellow color	S to 3XL
A4015LG	"Xtreme FR Rain Gear" jacket, 30" (76 cm) long, light green color	S to 3XL

### Bib Pants

Part #	Description	Sizes
A4015	"Xtreme FR Rain Gear" bib pant, with suspenders, orange color	S to 3XL
A4015Y	"Xtreme FR Rain Gear" bib pant, with suspenders, yellow color	S to 3XL
A4015LG	"Xtreme FR Rain Gear" bib pant, with suspenders, light green color	S to 3XL

## FR ECONOMY RAINWEAR



45  
OR  
85JPH



### Features/Benefits

#### 45 Series

- Made from unsupported fire retardant PVC
- Light weight suit 20 mil thickness
- Electronically sealed seams
- Come in three pieces: bib pant, jacket and hood
- Economical protection for general clean-up, construction work
- Excellent value

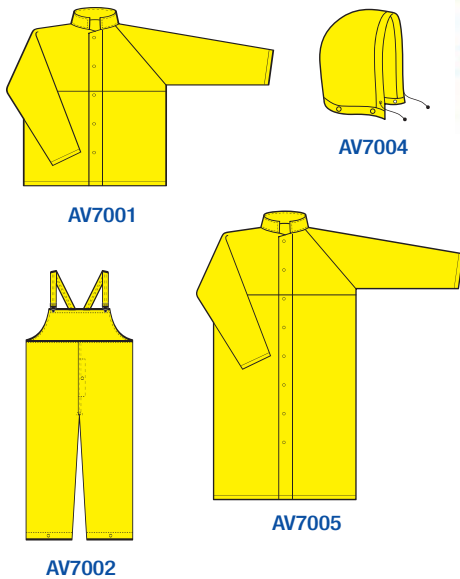


#### 85 Series

- Made from fire retardant PVC coated on polyester foreextra strength
- Heavy weight suit 35 mil thickness
- Electronically sealed seams
- Come in three pieces: bib pant, jacket and hood
- Economical protection for general clean-up, construction work
- Excellent value

Part #	Description	Sizes
45	"FR Rain Suit" PVC rainsuit, 3 pieces (jacket, bib pant and hood)	S to 3XL
85JPH	"FR Rain Gear" fire retardant rainsuit, 3 pieces (jacket, bib pant and hood)	S to 3XL
85C	"FR Rain Gear" fire retardant coat, 48" (122 cm) long, with hood	S to 3XL

## FR ALL TASK RAINWEAR



AV7001

AV7004

AV7002

AV7005



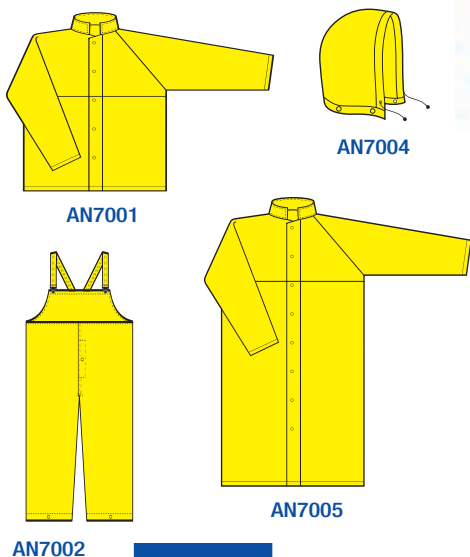
This heavy duty PVC on nylon suit is made of medium weight material, which is flame retardant, water repellent, good abrasion resistance and is not affected by most chemical products and acids. Its cut is generously oversized; hardware used in its construction is rust proof. All seams are double needle stitched and electronically sealed. Excellent for general use and construction.

### Features/Benefits

- Flame retardant, water repellent, good abrasion resistance and not affected by most chemical products and acids.
- Available in yellow color only
- All seams are electronically sealed
- Excellent value with high durability

Part #	Description	Sizes
AV7001	"All-Task" Flame retardant jacket, 30" (76 cm) long, PVC on nylon	S to 3XL
AV7002	"All-Task" Flame retardant bib pant, with suspenders, PVC on nylon	S to 3XL
AV7004	"All-Task" Flame retardant hood, with drawstring, PVC on nylon	One size
AV7005	"All-Task" Flame retardant coat, 48" (132 cm) long, PVC on nylon	S to 3XL

## FR CHEM-TASK RAINWEAR



AN7001

AN7004

AN7002

AN7005



The Chem-Task heavy weight neoprene on nylon suit (neoprene coated on the outside) is very tough and has excellent resistance to oils, solvents and is extremely long wearing. All seams are double sewn and sealed for better tear and permeability resistance.

### Features/Benefits

- Made of neoprene on nylon (neoprene coated on the outside)
- All seams are double sewn and sealed
- Offer excellent resistance to oils and solvents

Part #	Description	Sizes
AN7001	"Chem-Task" jacket, 30" (76 cm) long, neoprene on nylon	S to 3XL
AN7002	"Chem-Task" bib pant, with suspenders, neoprene on nylon	S to 3XL
AN7004	"Chem-Task" hood, with drawstring, neoprene on nylon	One size
AN7005	"Chem-Task" coat, 48" (132 cm) long, neoprene on nylon	S to 3XL

# FISHERMAN

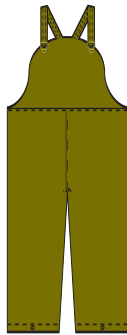
& CHEMICAL



## CAPE ISLANDER FOUL WEATHER GEAR



A3016



A3015LG

Cape Islander is the ultimate in full weather gear, especially engineered for the North American Fisherman. The North Cape Islander is of the highest quality. Super resistant as well as extremely comfortable. This suit is made of a thick PVC coating on a strong fabric made of a blend of 65% polyester and 35% cotton (polyester offering strength, cotton offering that smooth feeling as well as serving as an absorbant). The special PVC coating offers the best resistance to fish oil and salt water. It also maintains its flexibility when used in very cold weather. Electronically sealed and sewn, seams offer the best tear resistance. In addition, we have also made this suit fire retardant.

### Features / Benefits

- Made of PVC coating on 65% polyester and 35% cotton fabric
- Flame retardant, resistance to fish oil, salt water and most chemicals
- All seams are electronically sealed
- Available in size small to 3XL
- Available in 3 colors; hi-viz orange, lime green and yellow

### Jacket

Part #	Description	Sizes
A3016	Cape Islander hooded jacket, 30" (76 cm) long, flame retardant, Hi-Viz orange color	S to 3XL
A3016LG	Cape Islander hooded jacket, 30" (76 cm) long, flame retardant, light green color	S to 3XL
A3016Y	Cape Islander hooded jacket, 30" (76 cm) long, flame retardant, yellow color	S to 3XL



A3005Y



Hi-Viz Orange



Light Green



Yellow

### Bib Pants

Part #	Description	Sizes
A3015	Cape Islander bib pants with removable elasticized suspenders, flame retardant, Hi-Viz orange color	S to 3XL
A3015LG	Cape Islander bib pants with removable elasticized suspenders, flame retardant, light green color	S to 3XL
A3015Y	Cape Islander bib pants with removable elasticized suspenders, flame retardant, yellow color	S to 3XL

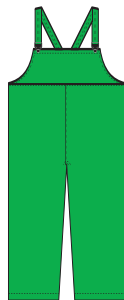
### Long Coat

Part #	Description	Sizes
A3005Y	Cape Islander long coat, 48" (122 cm) flame retardant, yellow color	S to 3XL

## ACID-PRO SUITS



AC1001



AC1002

The Acid-Pro flame retardant suit offers good body protection against chemical splash, made of 35 mil PVC on nylon with all seams double stitched and sealed. The front zipper closure is well protected by a storm flap with a snap button. The sleeves and legs include a double piece with elastic at the bottom preventing liquids from penetrating inside.

### Features / Benefits

- Flame retardant.
- Economical, made of 35 mil PVC on nylon.
- Color is lime green for easy identification.
- Could double as a rainsuit if required.
- All seams double stitched and sealed

Part #	Description	Sizes
AC1001	Hooded jacket, flame retardant, 30" (76 cm) long	S to 3XL
AC1002	Bib pants with suspenders, flame retardant	S to 3XL

# PROTECTIVE **APRONS**



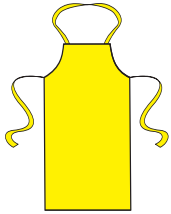
## TPU APRONS



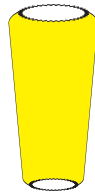
They are a big improvement over PVC products currently available in the marketplace. Accepted by the CFIA (Canadian Food Inspection Agency) for direct food contact.

### Features/Benefits

- TPU (Thermoplastic Polyurethane Elastomer)
- Much higher tear and puncture resistance than PVC
- The aprons are available as die cut or with adjustable straps
- Made in Canada
- Washable



CA1T



CE2T

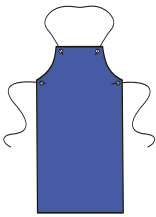
Part #	Description	Sizes
CA1T	TPU apron 5.5 mil 35" x 45" with die cut, yellow, blue or white	One size
CA2T	TPU Apron 35" x 50" with die cut, yellow, blue or white	One size
CA3T	TPU Apron 35" x 45" with adjustable Neck Strap, yellow, blue or white	One size
CA4T	TPU Apron 35" x 50" with adjustable Neck Strap, yellow, blue or white	One size
CE2T	TPU Sleeve, covered elastic at each end 18", yellow, blue or white	One size

## PROTECTIVE APRONS

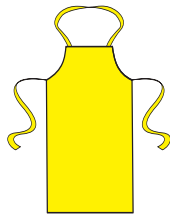
North offers you a complete line of protective aprons, made of various materials, in different thicknesses and cut in different sizes, to meet all your needs. Each material is suited for different usages or needs, such as chemicals, greases, oil or general purpose protection.

### Features/Benefits

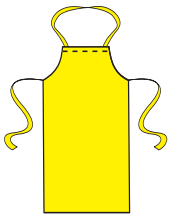
- Material to suit various applications, such as meat cutting, food or cheese processing, woodworking, etc.
- Different material thickness for maximum durability
- Configuration to meet your needs



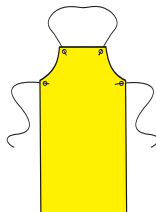
1265/8  
1265/12



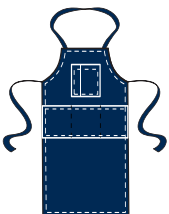
1285



1276



1272



1289

Part #	Description	Sizes
1265/8	Bib style apron 36" X 48" (91 cm X 122 cm), 8 mil (0.20 mm) frosted vinyl, metal grommets, blue or white color	One size
1265/12BLU	Bib style apron 36" X 48" (91 cm X 122 cm), 10 mil (0.25 mm) frosted vinyl, metal grommets, blue or white color	One size
1265SE/12BLU	Bib style apron 36" X 48" (91 cm X 122 cm), 10 mil (0.25 mm) frosted vinyl, metal grommets, hemmed, blue or white color	One size
1285	Bib style apron 36" X 48" (91 cm X 122 cm), PVC coated yellow nylon, sewn on tie	One size
1276	Bib style apron 36" X 48" (91 cm X 122 cm), lightweight neoprene on nylon, sewn on tie, yellow	One size
1272	Bib style apron 36" X 48" (91 cm X 122 cm), polyurethane on nylon, metal grommets and nylon tie, yellow	One size
1289	Bib style carpenter apron 36" X 30" (91 cm X 76 cm), blue denim, one top pocket with pencil holder, 3 waist pockets, sewn on tie	One size

# PROTECTIVE **SLEEVES**

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# PROTECTIVE SLEEVES AND KNEE PADS

North offers you a complete line of protective sleeves, made of various materials, thicknesses and lengths. These products are also made in different configurations to meet every customers needs. Each material and configuration is suited for different usage, according to specific needs.

## Features/Benefits

- Material to suit various applications
- Configuration to suit specific needs



SLE8 - SLE13



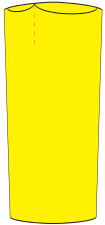
SLE18



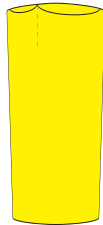
SLE1215V



SLE1215S



SLKW7-SLKW18



SLKW7S-SLKW18S



1360

Part #	Description	Sizes
SLE8BLU	Sleeve made of 8 mil (0.20 mm) vinyl, with elastic at both ends, available in blue	18" (46 cm)
SLE8WHT	Sleeve made of 8 mil (0.20 mm) vinyl, with elastic at both ends, available in white color	18" (46 cm)
SLE9	Sleeve made of PVC on nylon, with elastic at both ends, yellow color	18" (46 cm)
SLE11	Sleeve made of medium weight neoprene, with elastic at both ends, yellow color	18" (46 cm)
SLE12	Sleeve made of 100% cotton flame retardant material, with elastic at both ends, lime green color	18" (46 cm)
SLE13	Sleeve made of PVC on polyester (heat sealed), sewn in elastic at the top and 1" wide elastic at the wrist, green color	18" (46 cm)
SLE18	Sleeve made of canvas cotton, with snap closures at the wrists, reinforced seams at the upper end, beige color	18" (46 cm)
SLE1215V	Sleeve made of 2-ply nylon mesh, velcro closure, cut and abrasive resistant, black color	8" (20 cm)
SLE1215S	Sleeve made of 2-ply nylon mesh, ajustable snap fastener closure, cut and abrasive resistant, black color	8" (20 cm)
SLKW7	Sleeve made of Knitted Kevlar® with thumb hole, cut and heat resistant, double ply, yellow color	7" (18 cm)
SLKW7S	Sleeve made of Knitted Kevlar® with thumb hole, cut and heat resistant, single ply, yellow color	7" (18 cm)
SLKW10	Sleeve made of Knitted Kevlar® with thumb hole, cut and heat resistant, double ply, yellow color	10" (25 cm)
SLKW10S	Sleeve made of Knitted Kevlar® with thumb hole, cut and heat resistant, single ply, yellow color	10" (25 cm)
SLKW14	Sleeve made of Knitted Kevlar® with thumb hole, cut and heat resistant, double ply, yellow color	14" (36 cm)
SLKW14S	Sleeve made of Knitted Kevlar® with thumb hole, cut and heat resistant, single ply, yellow color	14" (36 cm)
SLKW18	Sleeve made of Knitted Kevlar® with thumb hole, cut and heat resistant, double ply, yellow color	18" (46 cm)
SLKW18S	Sleeve made of Knitted Kevlar® with thumb hole, cut and heat resistant, single ply, yellow color	18" (46 cm)

Part #	Description	Sizes
1360	Rubber knee pads	One size

# ALUMINIZED

## HIGH HEAT CLOTHING



# HIGH HEAT CLOTHING & ACCESSORIES

North high heat clothing and accessories are made of aluminized heat resistant rayon fabric. This material is a tough flexible herringbone fabric woven from permanent flame retardant rayon and aluminized film. Aluminized rayon fabric is to be used for radiant heat environments. It is not recommended for molten metal splash exposure. It is good up to 200°C / 392°F.

North high heat clothing and accessories are also made of aluminized aramid fabric (kevlar®) AK308. This fabric is made from a mix of aramid fibers woven in a herringbone style and aluminized with a highly reflective film.

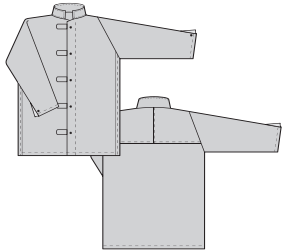
### Thermal protective performance value:

Up to 1100°C / 2012°F for short period such as fire entry

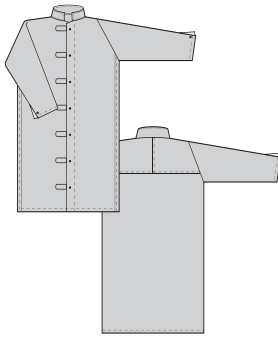
Up to 200°C / 392°F for long periods such as furnace work

### Features / Benefits

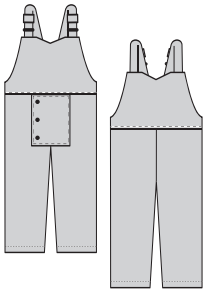
- High reflective qualities
- Superior heat resistance
- Excellent abrasion resistance
- Available in sizes: S. to XL



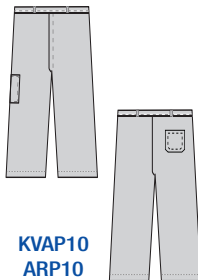
ARC30



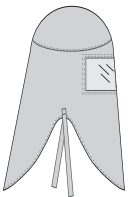
KVAC50  
ARC50



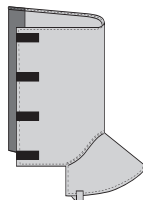
KVAPB10  
ARPB10



KVAP10  
ARP10



KVAH19  
ARH19



KVAL30/1  
ARL30/1

Part #	Description	Sizes
ARC30	Aluminized rayon jacket, snap closure, lapels, liftable collar, 30" (76 cm)	S to 2XL
KVAC50	Aluminized kevlar® coat, snap closure, lapels, liftable collar, 50" (127 cm)	S to 2XL
ARC50	Aluminized rayon coat, snap closure, lapels, liftable collar, 50" (127 cm)	S to 2XL
KVAPB10	Aluminized kevlar® bib pant, braces included	S to 2XL
ARPB10	Aluminized rayon bib pant, brace included	S to 2XL
KVAP10	Aluminized kevlar® waist pant with belt loop, buttons for braces, covered fly	S to 2XL
ARP10	Aluminized rayon waist pant with belt loop, buttons for braces, covered fly	S to 2XL
KVAH19	Aluminized kevlar® hood with full face visor	One size
ARH19	Aluminized rayon hood with full face visor	One size
KVAL30/1	Aluminized kevlar® spats, half leg length legging, 12" (30 cm)	One size
ARL30/1	Aluminized rayon spats, half leg length legging, 12" (30 cm)	One size

# WELDER'S

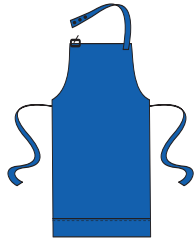
## HIGH HEAT CLOTHING



# WELDER'S CLOTHING AND ACCESSORIES



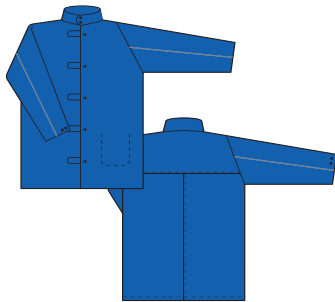
SLH870



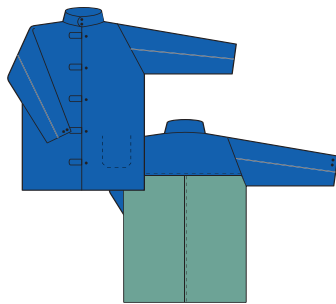
SLA42  
SLA48



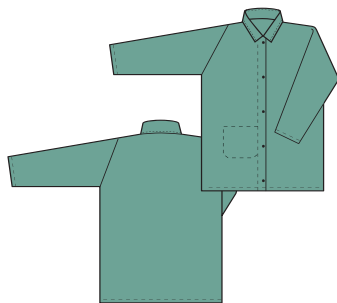
SLA18  
SLA24



SLC24



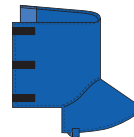
SLC24CB



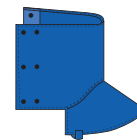
SFC7932



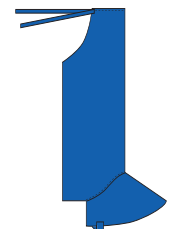
SLS18



SLSP8V



SLSP8B



SLL30

North welder's clothing and accessories are manufactured from premium quality chrome tanned leather and are designed for user comfort, durability, protection and efficiency. For any welding jobs, light or heavy, you will find that North products can handle the job.

## Features / Benefits

- Quality leather specially treated for welding applications
- Well designed garments for comfort, durability and maximum protection
- Highly resistant to sparks and abrasion
- Available in various sizes from Small to X.Large

Part #	Description	Sizes
SLH870	Chrome leather hood with flip front visor	One size
SLA18	Chrome leather waist type apron, 18" (46 cm) length	One size
SLA24	Chrome leather waist type apron, 24" (61 cm) length	One size
SLA42	Chrome leather bib type apron, 42" (107 cm) length	One size
SLA48	Chrome leather bib type apron, 48" (122 cm) length	One size
SLC24	Chrome leather jacket, 24" (61 cm), inside pocket, collar, snap closure in front, blue color	S to 3XL
SLC24CB	Chrome leather jacket, 24" (61 cm), inside pocket, collar, snap closure in front, green proban back	S to 3XL
SFC7932	Westex Proban full jacket, 32" (81 cm), green color	S to 3XL
SLS18	Chrome leather sleeves, dome fasteners at wrist, 18" (46 cm) length	One size
SLSP8B	Chrome leather spats, cover the foot and attaches on the back of the leg with adjustable fasteners, 8" (20 cm)	One size
SLSP8V	Chrome leather spats, cover the foot and attaches on the back of the leg with adjustable velcro closure, 8" (20 cm)	One size
SLL30	Chrome leather waist type leggings, 30" (76 cm)	One size

# NORTH PROTECTIVE CLOTHING

“SAFETY YOU CAN WEAR”

North proudly introduces its new line of Protective Clothing. “Safety you can wear”.

With the evolution of safety awareness in the Canadian and North American industry over the last twenty years, we have seen tremendous changes in the products offered to the workers for better and more complete protection. New clothing designs, coupled with the arrival of technologically advanced fabric compositions have enabled North to offer the ultimate in protection. These fabrics have unparalleled safety characteristics. Some of the basics are; NOMEX®, Westex®, Westex® Ultrasoft®, Proban®, Kevlar®, Ballistic Nylon, Tyvek® and many others. They are either flame resistant, cut resistant, abrasion resistant or offer a barrier against chemicals or dust.

Monitoring this evolution, North has mastered these fabrics and offer you the greatest variety and the most complete line of protective clothing available in North America. General work wear to winter wear, flame resistant clothing of all kinds, rainwear of all types, acid suit, aprons, sleeves, chainsaw operator pants and aprons, disposable clothing of all kinds, traffic clothing and more...

All these garments are either manufactured in our own facilities or by qualified sub-contractors under our close supervision.

Given our commitment to safety, all our garments are manufactured under strict quality control standards and are guaranteed against any manufactured defect.

## **Flame Resistant Garment**

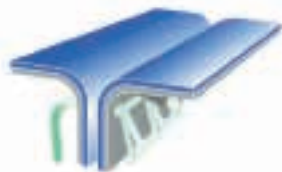
Workers in the utility, oil, gas, petrochemical, and steel industries work in environments that expose them to high risk hazards that can cause severe and fatal burn injuries. The use of flame resistant clothing in recent studies and survey has been proven to provide thermal protection against electric arcs, flash fire and molten metal splash exposure. The level of protection usually rest in the weight of the fabric and composition used in the manufacturing of these flame resistant garments.

Flame resistant garments will self extinguish when the source of ignition is removed, limiting the body burn percentage. Flame resistant clothing will not melt or drip like synthetic fabrics. Synthetic fabrics will continue to burn until the fabric is totally consumed which can cause severe contact burn to the skin. Government reports note that the majority of severe and fatal burn injuries are due to the individuals clothing igniting and continuing to burn, not the exposure itself.

## **SEAM CLOSURES**

North offers four different types of seams closures for its disposable and limited use garments.

Depending on the particular fabrics and applications, user have a choice of either overlock seams for disposable garments, Bound Seams closure for mid-range limited use garments and Heat Sealed Seams or Supra Heat Sealed Seams for high end limited use chemical garments.



### **Serged Seam**

Three threads are interlocked around the edge of the fabric. An economical stitching method



### **Bound Seam**

Two pieces of material are covered with a binding of similar material and are chainstitched through all the layers. Thus providing increased strength and impermeability against liquid splashes and dry particulates.



### **Heat Sealed**

Two pieces of material are sewn and then heat sealed with a strip of material compatible with the garment material. Provides a strong liquid proof seam for chemical protective garments.

## Protective Clothing

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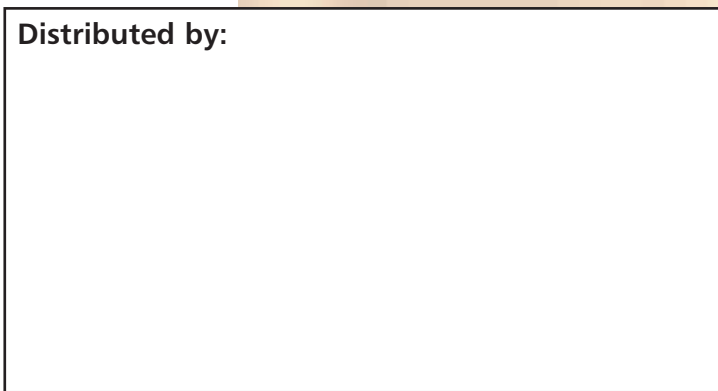
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