





**HEAD PROTECTION** 



**HEARING PROTECTION** 



RESPIRATORY PROTECTION







FIRST AID PRODUCTS



TRAFFIC SAFETY PRODUCTS



101.1996 or NFPA standard.

SIGNS AND LOCKOUTS



NORTH Safety Products

confidence on the job and in the market place.

PROTECTIVE CLOTHING

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

North works closely with distributors and end users alike to provide innovative product design, quality manufacturing, solid marketing, training and support to our customers. Our goal is to enhance worker safety, improve productivity, and create

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

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, Difeo 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.

**FALL PROTECTION** 



PROTECTIVE FOOTWEAR



CONTROLLED ENVIRONMENT PRODUCTS





**ELECTRICAL SAFETY PRODUCTS** 

**Affiliated Companies** 









# 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.

# POLYPROPYLENE

DISPOSABLE CLOTHING



#### LIGHTGUARD 75 SERIES



Lightguard's polypropylene limited-use garments are made of a 1.25 oz/yd2 spunbound polypropylene white fabric. This lightweight breathable material represents economical protection when an inexpensive garment is required for maintenance, general clean-up and non-hazardous dry particulate protection.

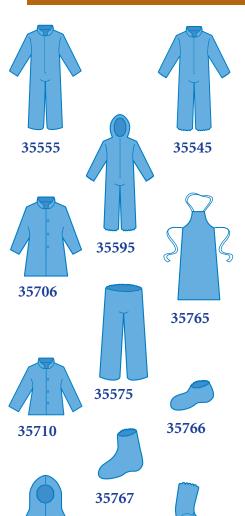
#### Features/Benefits

- · Made of Spunbounded Polypropylene.
- Lightweight barrier material (1.25 oz/yard<sup>2</sup>).
- Economic protection for general clean-up and non-hazardous applications.
- Overlock seams



Part#	Description	Sizes
75555	Coverall with front zipper, collar	S to 3XL
75595	Coverall with front zipper, attached hood, elastic face opening, wrists & ankles	S to 3XL
75707	Lab coat, 48" length, 3 snap front, collar	S to 3XL

#### SAFEGUARD 35 SERIES



35615

Safeguard's heavy duty limited-use garments are constructed of a 2.1 oz/yd² polyolefin (polypropylene / polyethylene) blue fabric. Its anti-static, fire retardant and breathable properties offer a long lasting level of protection against water base liquids and non-hazardous dry particulates. They are the answer in the areas of manufacturing, maintenance, general clean-up and dusty environments.

#### Features/Benefits

- Made of Polyolefin (Polypropylene / Polyethylene), 2.1 oz/yard2
- Anti-static, self-extinguishable
- Longer lasting level of protection against water based liquids and non hazardous dry particulates
- Overlock seams

Part#	Description	Sizes
35555	Coverall with front zipper, collar	S to 3XL
35545	Coverall with front zipper, collar, elastic wrists & ankles.	S to 3XL
35595	Coverall with front zipper, attached hood, elastic face opening, wrists & ankles	S to 3XL
35706	Lab coat of 40" with 3 snap front, collar	S to 2XL
35765	Bib apron 30" X 36"	One size
35710	Shirt with 3 snap front, collar	S to XL
35575	Pants with 1/4" elastic waist band	S to 2XL
35766	Shoe cover with elastic top, 5" high	One size
35767	Boot cover with elastic top, 10" high	One size
35755/18	Sleeve with elastic opening, 18" long	one size
35615	Hood, pullover, elastic face opening, cover shoulder	one size

35755/18



### TYVEK® PROTECTIVE WEAR™ SERIES 55



55616

DuPont® has recently introduced a new TYVEK® spunbounded olefin fabric (TYVEK® 1424A) which offers increased breathability and comfort while maintaining the barrier and durability performance of TYVEK® style 1422L. Increased air-flow is an important factor in garment thermal comfort performance. All garments made of this upgraded fabric will be clearly identified with a blue TYVEK® Protective Wear™ DuPont chest patch. As a licenced garment manufacturer, all of our North TYVEK® Protective Wear™ are complying with the revised ANSI/ISEA 101-1996 sizing standard. No other limiteduse fabrics presently available in the market place offer the comparable protection and comfort as the new TYVEK® Protective Wear™. 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.

- TYVEK® is made of Spunbounded Olefin
- Ideal for dry particulate protection
- Low-linting and anti-static
- Perform in many industrial and agricultiral applications
- · Overlock seams

David#	Description	C:
Part#	Description	Sizes
55555	Coverall with front zipper, collar	S to 3XL
55545	Coverall with front zipper, collar, elastic wrists & ankles	S to 3XL
55525	Coverall with front ziper, attached hood, elastic face opening	S to 3XL
55595	Coverall with front ziper, 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"	One size
55706	Lab coat economy, 40" length with 3 snaps front, collar	S to 2XL
55707	Lab coat (full), 48" length with 4 snaps front, collar	S to 2XL
55565	Shirt poncho, no collar	S to XL
55710	Shirt, 4 snaps at front, collar	S to XL
55575	Pant with elastic waist band 1/4"	S to 2XL
55575/1	Pant with elastic waist band 1"	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" high with elastic top	One size
55766FC	Shoe cover 5" high, friction coated, elastic top, skid resistant sole	One size
55766S	Shoe cover 8.5" high, elastic top, PVC sole (S for ladies and L for men's)	S or L
55767	Boot cover 10" high, elastic top	One size
55767\$	Boot cover 17" high, elastic ankle & top, PVC sole (S for ladies and L for me	n's) S or L
55585	Hood pullover, tie string at side of face opening	One size
55613	Hood pullover, elastic face opening	One size
55615	Hood pullover, elastic face opening, cover shoulders	One size
55616	Hood, snap closure under chin, cover shoulders	One size
*\^/	G PIEASE AND "18" FOR 18 INCHES "21" FOR 21 INCHES OR "24" FOR 24 INCHES AT THE END	

<sup>\*</sup>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 TYCHEM® QC 65 SERIES



65767

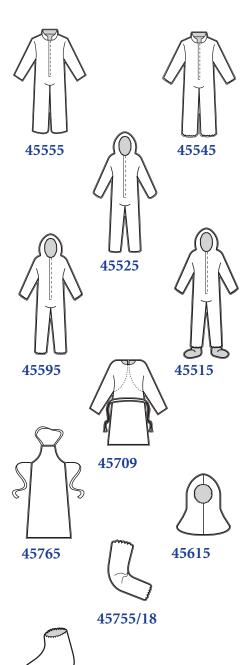
North Splashguard TYCHEM® QC offers excellent splash protection against many inorganic acids, bases and other liquid chemicals. Combining the toughness of TYVEK® fabric with a quality coating of 1.25 mils of polyethylene, TYCHEM® QC is ideal for general use in industrial plants, pharmaceutical manufacturing 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.

- 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.

Part#	Description	Sizes
65555	Coverall with front zipper, collar	S to 3XL
65545	Coverall with front zipper, collar, elastic wrists & ankles	S to 3XL
65525	Coverall with front zipper, attached hood, elastic face opening	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
65710	Shirt with 3 snaps front, collar	S to 2XL
65575/1	Pants with elastic waist band of 1"	S to XL
65709	Long sleeve apron with open back, snap at neck, elastic wrists, wraparound waist tie	S to XL
65765	Apron of 30" X 36"	One size
65615	Hood pullover, elastic face opening, cover shoulders	One size
65755/18	Sleeve with elastic opening	18"
65755/24	Sleeve with elastic opening	24"
65767	Boot cover with low elastic top, 10" high	One size

# TYCHEM® SL

CHEMICAL PROTECTIVE APPAREL WHEREIGH!



45767

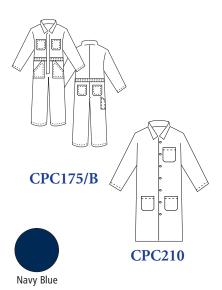
North Chemguard Tyvek® laminated with Saranex 23-P film from Dow Chemical Co. provides protection against a broader range of chemicals than Tyvek® QC. This white multilayered Tyvek® Saranex 23-P 8 mils thick material is superior for barrier protection from hazardous liquids, toxic chemicals and minute particules. 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.

- · 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.

Part#	Description	Sizes
45555	Coverall with front zipper with storm flap, collar	S to 3XL
45545	Coverall with front zipper with storm flap, collar, elastic wrists & ankles	S to 3XL
45525	Coverall with front zipper with storm flap, attached hood, elastic face opening	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"	One size
45755/18	Sleeve with elastic opening	18"
45767	Boot cover with low elastic top, 10" high	One size
45615	Hood pullover, elastic face opening, cover shoulders	One size

# GENERAL USE





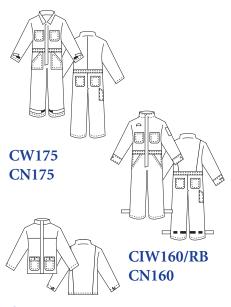
These work clothes are made of high quality polyester/cotton blended (65% polyester / 35% cotton). All the accessories, zippers, buttons and threads are of the best quality and the make up is up to North top quality standard. The coveralls are available in standard length and navy blue color only.

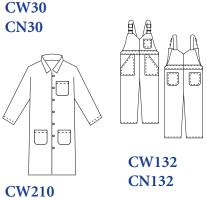
#### Features/Benefits

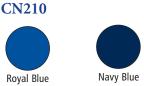
- Made of polyester/cotton blend (65% polyester/35% cotton)
- Weight 8 oz
- Coverall has zipper closure and shop coat has snap closure
- Overlock seams
- Coverall has (2) chest pockets (2) hip pockets (2) back pockets (1) tool pocket
- Shop coat has (1) chest pocket (2) hip pockets and snap closure
- 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

#### FIRE RETARDANT & FLAME RESISTANT SUMMER WEIGHT WORK CLOTHING







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

- Proban 100% cotton 9 oz treated for fire retardant properties
- NOMEX® IIIA 6.2 oz fabric
- · 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	Fire 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	Fire resistant coverall made with 6.2 oz NOMEX® IIIA fabric with front zipper closure, royal blue or navy color, regular and tall lengths	38 to 62
CIW160/RB	Fire retardant deluxe coverall made of 9 oz Indura Soft Cotton with front zipper closure, royal blue color, regular and tall lengths	38 to 62
CN160	Fire resistant deluxe coverall made with 6.2 oz NOMEX® IIIA fabric with front zipper closure, royal blue color, regular and tall lengths	38 to 62
CW30	Fire retardant jacket made of 9 oz Westex Proban Cotton, royal blue or navy color, regular and tall lengyhs	S to 3XL
CN30	Fire resistant jacket made with 6.2 oz NOMEX® IIIA fabric, royal blue color, regular and tall lengths	S to 3XL
CW132	Fire retardant bib overall made of 9 oz Westex Proban Cotton, royal blue or navy color, regular and tall lengths	S to 3XL
CN132	Fire resistant bib overall made with 6.2 oz NOMEX® IIIA fabric, royal blue or navy color	S to 3XL
CW210	Fire retardant men's shop coat made of 9 oz Westex Proban Cotton, royal blue or navy color	S to 3XL
CN210	Fire resistant men's shop coat made with 6.2 oz NOMEX® IIIA fabric, royal blue color	S to 3XL

# WINTER WORK

PROTECTIVE CLOTHING NCRTH. THE PERSON NAMED IN

#### **COTTON / POLYESTER WINTER WORK CLOTHING**



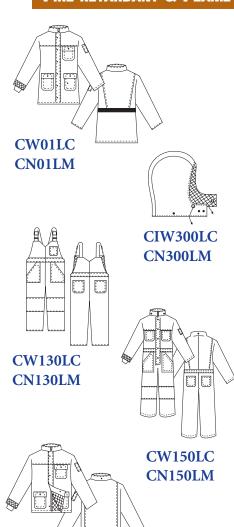
Insulated work clothes are made of high quality polyester/cotton blended (65% polyester / 35% cotton). All the accessories, zippers, buttons and treads are of the best quality and the make up is up to North top quality standard. The coveralls are available in standard length and navy blue color only.

#### 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

#### FIRE RETARDANT & FLAME RESISTANT WINTER WORK CLOTHING



This insulated line of garments are made either of fire retardant Proban from Westex or fire 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 cotton or 6.2 oz fabric made of DuPont NOMEX® fiber. Inner lining made out of either 4 lb. cotton/cotton or FR Modacrylic / FR Cotton lining.

#### Features/Benefits

- Made of Westex Proban 100% 9 oz cotton treated for fire retardant
- Westex Proban garments are lined with 4 lb. cotton/cotton
- NOMEX® IIIA 6.2 oz fabric
- NOMEX® IIIA garments are lined with FR Modacrylic / FR Cotton
- 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	Fire retardant insulated artic parka made of 9 oz Westex Proban Cotton (outer shell) and 4 lb Cotton (lining), royal blue or navy color	S to 3XL
CN01LM	Fire resistant insulated artic parka made with 6.2 oz NOMEX® IIIA fabric (outer and Modacrylic (lining), royal blue color	shell) S to 3XL
CW300LC	Fire retardant insulated hood made of 9 oz Westex Proban Cotton (outer shell) and 4 lb Cotton (lining), royal blue or navy color	One size
CN300LM	Fire resistant insulated hood made with 6.2 oz NOMEX® IIIA fabric (outer shell) and Modacrylic (lining), royal blue color	One size
CW130LC	Fire retardant insulated bib overall with leg zipper, made of 9 oz Westex Proban Cotton (outer shell) and Cotton (lining), royal blue or navy color, regular and tall lengths	S to 3XL
CN130LM	Fire resistant insulated bib overall with leg zipper, made with 6.2 oz NOMEX® IIIA fa (outershell) and Modacrylic (lining), royal blue color, regular and tall lengths	ıbric S to 3XL
CW150LC	Fire retardant insulated coverall, made of 9 oz Westex Proban Cotton (outer shell) and 4 lb Cotton (lining), royal blue or navy color, regular and tall lengths	S to 3XL
CN150LM	Fire 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	Fire retardant insulated bomber jacket made of 9 oz Westex Proban Cotton (outer s and 4 lb Cotton (lining), royal blue or navy color, regular and tall lengths	hell) S to 3XL
CN30LM	Fire resistant insulated bomber jacket made with 6.0 oz NOMEX® IIIA fabric (outer and Modacrylic (lining), royal blue color, regular and tall lengths	shell) S to 3XL

Navy Blue

CW30LC CN30LM

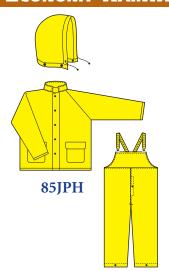
Royal Blue

# RAINWEAR

PROTECTIVE CLOTHING



#### ECONOMY RAINWEAR



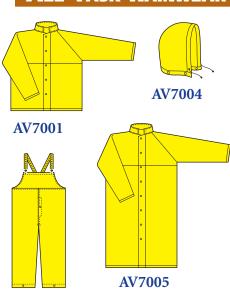
These suits are made of PVC and all seams are electronically sealed. Both type of suits are available as complete set (jacket, bib pants, hood) unit only.

#### Features/Benefits

- Model 45 is made of unsupported PVC
- Model 85 is made of PVC coated on polyester for extra strength
- Model 45 is light weight suit 20 mil thickness
- Model 85 is heavier weight suit 35 mil thickness
- · Both have electronically sealed seams
- Both come in three pieces: bib pant, jacket and hood
- Economical protection for general clean-up, construction work
- · Excellent value

Part#	Description	Sizes
45	Super Econo rainsuit, 3 pieces (jacket, bib pant and hood), 20 mil unsuported PVC	S to 3XL
85JPH	Econo rainsuit, 3 pieces (jacket, bib pant and hood), 35 mil PVC on polyester	S to 3XL
85C	Econo raincoat, 48" (122 cm) long, with hood, 35 PVC on polyester	S to 3XL

#### **A**LL **T**ASK **R**AINWEAR



This heavy duty PVC on nylon suit is made of medium weight material, which is flame resistant, water repellant, 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

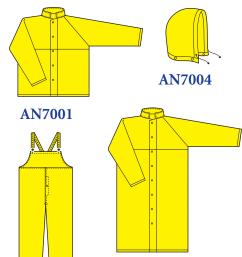
- Flame resistant, water repellant, good abrasion resistance and not affected by most chemical products and acids.
- · All seams are electronically sealed
- · Available in yellow color only
- Excellent value with high durability

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

#### CHEM-TASK RAINWEAR

AV7002

AN7002



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)
- · Offer excellent resistance to oils and solvents
- · All seams are double sewn and sealed

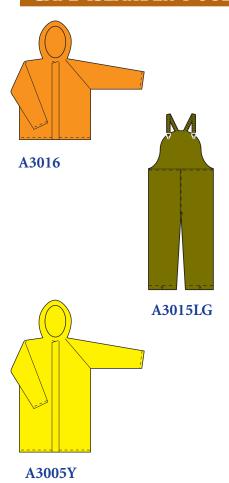
Part#	Description	Sizes
AN7001	Chem-Task jacket, 30" (76 cm) long, neoprene on nylon	S to 3XL
AN7002	Chem-Task bib pant, with suspenders, neoprene on nylon	S to 3XL
AN7004	Chem-Task hood, with drawstring, neoprene on nylon	One size
AN7005	Chem-Task coat, 48" (132 cm) long, neoprene on nylon	S to 3XL

AN7005

# FISHERMAN



#### **CAPE ISLANDER FOUL WEATHER GEAR**



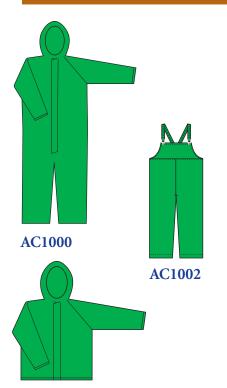
Cape Islander is the ultimate in full weather gear, especially engineered for the North American Fisherman. The North Cape Islander is of the highest quality. Super resistant as well as extremely comfortable. This suit is made of a thick PVC caoting on a strong fabric made of a blend of 65% polyester 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
- Fire 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

Part#	Description	Sizes
A3016	Cape Islander hooded jacket, 30" (76 cm) long, fire retardant, Hi-Viz orange color	S to 3XL
A3016LG	Cape Islander hooded jacket, 30" (76 cm) long, fire retardant, light green color	S to 3XL
A3016Y	Cape Islander hooded jacket, 30" (76 cm) long, fire retardant, yellow color	S to 3XL
A3015	Cape Islander bib pants with removable elasticized suspenders, fire retardant, Hi-Viz orange color	S to 3XL
A3015LG	Cape Islander bib pants with removable elasticized suspenders, fire retardant, light green color	S to 3XL
A3015Y	Cape Islander bib pants with removable elasticized suspenders, fire retardant, yellow color	S to 3XL
A3005Y	Cape Islander long coat, 48" (122 cm) fire retardant, yellow color	S to 3XL

#### **Acid-Pro Suits**



AC1001

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.

- Fire 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 stiched and sealed

Part#	Description	Sizes
AC1000	Hooded coverall, fire resistant with front zipper closure with storm flap	S to 3XL
AC1001	Hooded jacket, fire resistant, 30" (76 cm) long	S to 3XL
AC1002	Bib pants with suspenders, fire resistant	S to 3XL

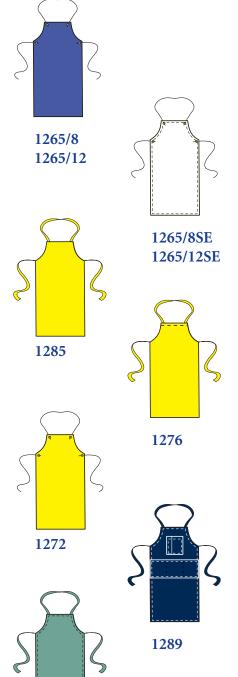
# PROTECTIVE APRONS



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.
- Configuration to meet your needs
- Different material thickness for maximum durability



**AFC/79** 

Part#	Description	Sizes
1265/8 BLU or WHT*	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
1265/8SE BLU or WHT*	Bib style apron 36" X 48" (91 cm X 122 cm), 8 mil (0.20 mm) frosted vinyl, metal grommets, hemmed, blue or white color	One size
1265/12 BLU or WHT*	Bib style apron 36" X 48" (91 cm X 122 cm), 12 mil (0.30 mm) frosted vinyl, metal grommets, blue or white color	One size
1265SE/12 BLU or WHT*	Bib style apron 36" X 48" (91 cm X 122 cm), 12 mil ( 0.30 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
AFC/79	Bib style apron 36" X 30" (91 cm X 76 cm), green flame retardant cotton westex proban, sewn on tie	One size

<sup>\*</sup>When ordering please add "BLU" for blue color or "WHT" for white color at the end of part number.

# PROTECTIVE SLEEVES



## 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



Part#	Description	Length
SLE8 BLU or WHT*	Sleeve made of 8 mil vinyl, with elastic at both ends, available in blue or 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" (23 cm)
SLKW7S	Sleeve made of Knitted Kevlar® with thumb hole, cut and heat resistant, single ply, yellow color	7" (23 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)

<sup>\*</sup>When ordering please add "BLU" for blue color or "WHT" for white color at the end of part number.



SLKW18S

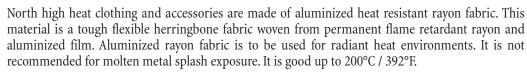
Part#	Description	Size
1360	Rubber knee pads	One size



# ALUMINIZED



### **HIGH HEAT CLOTHING & Accessories**

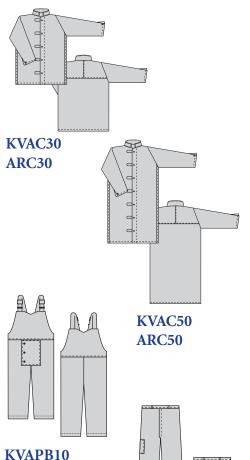


North high heat clothing and accessories are also made of aluminized aramid fabric (kevlar®) AK308. This fabric is made from a mix of aramid fibers woven in a herringbone style and aluminized with a highly reflective film.

#### 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

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



Part#	Description	Sizes
KVAC30	Aluminized kevlar® jacket, snap closure, lapels, liftable collar, 30" (76 cm)	S to 2XL
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



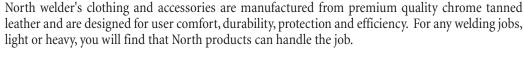
# WELDER'S

HIGH HEAT CLOTHING



# WELDER'S CLOTHING AND ACCESSORIES





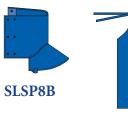
- Quality leather specially treated for welding applications
- Well designed garments for comfort, durability and maximum protection
- Highly resistant to sparks and abrasion
- · Available in various sizes from Small to X.Large

Part#	Description	Sizes
SLH870	Chrome leather hood with flip front visor	One size
SLA18	Chrome leather waist type apron, 18" (45 cm) length	One size
SLA24	Chrome leather waist type apron, 24" (60 cm) length	One size
SLA42	Chrome leather bib type apron, 42" (105 cm) length	One size
SLA48	Chrome leather bib type apron, 48" (120 cm) length	One size
SLC24	Chrome leather jacket, 24" (60 cm), inside pocket, collar, snap closure in front, blue color	S to 3XL
SLC30	Chrome leather jacket, 30" (75 cm), inside pocket, collar, snap closure in front, blue color	S to 3XL
SLC24CB	Chrome leather jacket, 24" (60 cm), inside pocket, collar, snap closure in front, green proban back	S to 3XL
SLC30CB	Chrome leather jacket, 30" (75 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
SLS14	Chrome leather sleeves, dome fasteners at wrist, 14" (36 cm) length	One size
SLS18	Chrome leather sleeves, dome fasteners at wrist, 18" (46 cm) length	One size
SLS23	Chrome leather sleeves, dome fasteners at wrist, covering shoulder, 23" (57 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









SLL30

# DISPOSABLE CLOTHING

#### POLYPROPYLENE 75 SERIES

#### Lightguard (Spunbounded / Polypropylene)

This lightweight 1.25 oz/yard2, barrier material offers an economic protection for general clean-up and non-hazardous applications.

#### PHYSICAL PROPERTY DATA

35 gsy/oz/yo
13.62 mils
10373 g/m
8246 g/m
123 %
134 %

\*MD = Trame / \*CD = Chaine

#### **APPLICATIONS**

- Maintenance
- · Protection against dust and grime
- · General clean-up

White

Overlock

#### Polyolefin 35 Series

#### Safeguard (Polypropylene / Polyethylene)

This anti-static self-extinguishable 2.1 oz/yard2 offers a longer lasting level of protection against water based liquids and non-hazardous dry particulates.

#### PHYSICAL PROPERTY DATA

• Basic weight: . . . . . . . . . . . . 2.10 oz/yd² \*CD: 45 lb • Elongation: . . . . . . . . . . . . . . . . \*MD: 90 % \*CD: 70 % • Air permeability: . . . . . . . . . . . . 48 CFM • Static decay: . . . < 0.5 sec (Anti-static)

\*MD = Trame / \*CD = Chaîne

#### **APPLICATIONS**

- Manufacturing
- Maintenance General clean-up · Protection for dusty environements with grinding,

filing or sanding

COLOR Blue

Overlock

#### TYVEK® 55 SERIES

#### Tyvek® Protective Wear™ (Spunbounded / Olefin)

Recently introduced by DuPont, those new Tyvek® 1424A offers increased breathability. It is the ideal fabric for dry particulate protection. Low-lining and anti-static Tyvek® Protective Wear™ performs better than any other similar fabrics in many industrial and agricultural applications.

#### PHYSICAL PROPERTY DATA

- Basic weight: . . . . . . . (ASTM D3776) 1.2 oz/yd²
- Thickness: ......(ASTM D1777) 5.5 mils Tensile: ....\*MD/\*CD: (ASTM D1682) 7.8/8.9 lb
- Tongue tear: .\*MD/\*CD: (ASTM D2261) 2.3/2.3 lb • Flammability: . . . . . . . . (16CFR1610) Classe 1

\*MD = Trame / \*CD = Chaîne

#### **APPLICATIONS**

- Light splash protection
- Body shop
- Paint spraying
- Manufacturing
- Asbestos removal

COLOR White protection Maintenance

· General clean-up

Dry particulate

SEAMS Overlock

## Tychem® QC 65 Series

#### Splashguard

Tyvek® coated with polyethylene, this fabric is made into garments that provide splash protection from many chemicals and dry particulates.

#### **PHYSICAL PROPERTY DATA**

- Basic weight: .....(ASTM D3776-85) 2.1 oz/v<sup>2</sup> • Thickness: . . . . . . . . . . . (ASTM D1777-64) 6 mils • Mullen Burst: ......(ASTM D3786-87) 66 mils
- \*MD/\*CD (ASTM D1682-64, sec 5.3)25/35 lb
- \*MD/\*CD (ASTM D1117-80)

\*MD = Trame / \*CD = Chaîne

#### **APPLICATIONS**

- Acid handling
- Tank cleaningMixing agrichemicalsOil refining

Yellow

Overlock

### TYCHEM® SL 45 SERIES

#### Chemguard (Tyvek® / Saranex® 23-P)

This multi-layered material provides protection against a wide range of chemicals, hazardous liquids, minute particles and many other potentially harmful agents.

#### PHYSICAL PROPERTY DATA

- Basic weight: . . . . . . . . . . . . . (ASTM D3776-85) 3.1 oz/yd² • Thickness: . . . . . . . . . . . . (ASTM D1777-64) 8 mils
- Mullen Burst: . . . . . . . . . . . . (ASTM D3786-87) 65 psi • Breaking Strength:
- ......MD / \*CD (ASTM D1682-64, sec 5.3) 43/45 lb • Tearing Strength - Trapezoid: .....\*MD / \*CD (ASTM D1117-80) 11/10 lb
- \*MD = Trame / \*CD = Chaîne

#### **APPLICATIONS**

- · Chemical handling
- PCB clean-up
- Fire department Hazmat teams
- Industrial Hazardous materials waste clean-up

Yellow

Overlock

# REUSABLE CLOTHING

#### **POLYCOTTON**

Polycotton fabric is a widely used product for regular non fire retardant general work needs. The blend is made of 65% polyester for higher tear resistance and prevents shrinkage, and 35% cotton for comfort. The polycotton for general work clothes is the common answer because it is easy to wash and easy to maintain.

### PROBAN® / FR-7A®

#### By Westex Inc.

Westex Proban®/FR-7A® fabrics have maintained broad based use primarily in the ferrous metal production or fabrication industries including numerous applications or welding in associated industries. Also widely used by utilities.

The durability of flame resistance to either home washing at 140°F or industrial washes up to 165°F is evaluated in appropriate laboratory tests for samples from each lot of Westex Proban/FR-7A fabric. Proban/FR-7A fabrics are certified by Westex to retain their original flame resistance through fifty (50) home washes or twenty-five (25) industrial washes under the conditions mentioned above. These fabrics should not be bleached with hypochlorite (chlorine) bleaches because repeated bleaching not only may remove the finish, but will be destructive to the fabric and its color.

#### NOMEX®

#### By DuPont™

For more than 30 years, protective apparel from DuPont NOMEX® fiber has provided superior thermal protection from flames, flash fires and electric arcs. The unique molecular structure of the NOMEX® fiber makes it inherently flame resistant. Garments of NOMEX® protect workers in the petroleum, petrochimical, electronic and gas utility industries.

The effectiveness of NOMEX® has been proven and documented in laboratories, field tests and real-life flash fire and electric arc situations. Garments made of NOMEX® consistently provide outstanding thermal performance because the NOMEX® fiber:

- Is inherently flame resistant
- Does not burn, melt or drip
- Provides permanent protection that won't wash out or wear away
- Resist break open and maintains a stable, inert barrier between the fire and skin, protecting the wearer from direct exposure
- Forms a tough, protective barrier when exposed to flame, and the garment itself stays supple until it cools

Normal home, commercial and industrial laundering and dry cleaning techniques are suitable. Because the flame-resistant protection is an inherant part of the NOMEX® fiber, it cannot be washed or worn out. Garment made of NOMEX® are extremely durable and stand up well to repeated launderings and use. Fabrics made of NOMEX® have very low initial shrinkage (1% to 3%) and maintain their size and shape over the life of the garment. In order to preserve garment strength and prolong garment life, chlorine bleach should not be used on garments of NOMEX®.



# 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®, Kevlar®, Balistic 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 manfactured 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

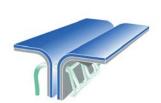
Workers in the utility, oil, gas, petrochemical, and steel industries work in environments that expose them to high risk hazards that can cause severe and fatal burn injuries. The use of flame resistant clothing in recent studies and survey has been proven to provide thermal protection against electric 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 chainstiched 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.

NOTE: NOMEX®, Kevlar®, Tyvek® and Tychem® are registered trademarks of E.I. DuPont de Nemours and Company. DuPont Canada Inc. is a licensee.



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