



## PROTECTIVE CLOTHING



### Selection of Protective Clothing

Protective Clothing are specially designed, fabricated, or treated to protect personnel against hazards caused by chemical handling, fire hazards, particulates such as lead, asbestos, and other dangerous working conditions. Workers who deal with hazardous materials need the utmost confidence in their protective apparel.

Protective Clothing for industry has numerous standards. These standards include those standards applicable to chemical protection, hot work, protection from cuts, and molten metal as well as other types of hazards. They provide guidance for selection use, proper care, and maintenance.

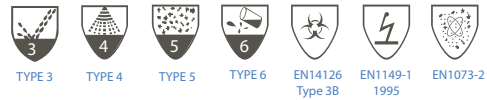
While both EN and NFPA standards provide a guaranteed level of safety and performance, it is important to note they are not the same. Each certification requires different testing procedures, each with its own methodology to simulate the real-life hazmat incidents

Types of Protective Apparel available for selection range from chemical resistant clothing for hazmat handling; flame resistant clothing for highly flammable environment; fire fighting clothing, cryogenic, cold room clothing, reflective vest and rain wear

# PROTECTIVE APPARELS

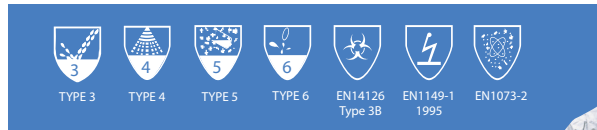
## Dupont™ Tychem® 2000 DP-TYCHEM-C

- Protection against numerous inorganic chemicals
- Resists liquid splashes up to 2 bar
- Particle tight fabric
- Biological protection-meets the EN14126 requirements in the highest performance class
- Protection against particulate radioactive contamination
- Lightweight Type 3B protection
- Garment design provides the right fit and ease of movement for the wearer
- For applications where decontamination is needed: the fabric is resistant to certain commonly used decontamination substances
- Does not contain halogen compounds, so can be disposed of via standard means



## Dupont™ Tychem® 6000 DP-TYCHEM-F

- Protection against numerous organic and highly concentrated inorganic chemicals
- Resists liquid splashes up to 5 bar
- Particle tight clothing material
- Biological protection-meets the EN14126 requirements in the highest performance class
- Protection against particulate radioactive contamination.
- Ease of movement and correct fit
- Lightweight Type 3B protection, only 450g for Tychem® F - size L
- For applications where decontamination is needed: the fabric is resistant to commonly used decontamination substances
- Does not contain halogen compounds, so can be disposed of via standard means



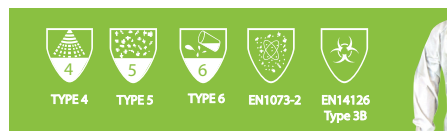
## Dupont™ Tyvek® 400 DP-TYVEK

- Barrier against many inorganic chemicals in low concentrations and particles larger than 1µm
- Protection against particulate radioactive contamination
- Reliable Type 5 and 6 protection
- As a result of its unique manufacturing process, TYVEK® is permeable to air and water vapour
- Easy to dispose off, does not contain halogen compounds
- Garment design offers ease of movement to the wearer



## QB MicroPz Disposable Chemical Coverall QB-5026-356D

- Breathable
- Electrostatic dissipative
- Anti-bacterial
- Protect against solid particulates, liquid chemicals, infective agents, chemical and radio active particles





## QB Tecasafe Plus FR Garments

- Inherently flame resistant: FR properties are built in, and won't wash or wear out
- Compliance: Exceeds NFPA 70E HRC1, HRC2 and NFPA 2112 performance standards
- Comfortable to wear: Soft and breathable. Superior moisture management because of special cellulosic fibre content
- Exceptional durability: Outstanding abrasion resistance and better strength retention after multiple commercial washes
- Outstanding laundered appearance: Fabric retains its new look and maintains permanent pressed appearance better than other protective fabrics
- Excellent value: Long life cycle and competitive price
- Design option: Jacket and pants, coverall
- Colour available: Orange, navy blue and other colour option upon request



## TECASAFE Overall Chart Sizes

QB-TCS580-CL-NB / QB-TCS580-CL-OR

	S	M	L	XL	2XL	3XL	4XL	5XL
SHOULDER	17.5"	18.5"	19.5"	20.5"	21.5"	22.5"	23.5"	24"
CHEST	40"	42"	44"	46"	48"	50"	52"	54"
WAIST (after elastic)	35"	37"	39"	41"	43"	45"	47"	49"
BODY LENGTH	18.5"	19"	19.5"	20"	20.5"	21"	21.5"	22"
LENGTH OF PANT	39"	40"	41"	42"	43"	43"	44"	44"

## TECASAFE Jacket Chart Sizes

QB-TCS580-JK-NB / QB-TCS580-JK-OR

	S	M	L	XL	2XL	3XL	4XL	5XL
SHOULDER	17.5"	18.5"	19.5"	20.5"	21.5"	22.5"	23"	23.5"
CHEST	39"	41"	43"	45"	47"	49"	51"	53"
SLEEVE	22.5"	23"	23.5"	24"	24.5"	25"	25.5"	26"
WAIST	38"	40"	42"	44"	46"	48"	50"	52"
LENGTH	25.5"	26"	27"	28"	29"	29.5"	30"	30.5"



## TECASAFE Pants Chart Sizes

QB-TCS580-PT-NB / QB-TCS580-PT-OR

	S	M	L	XL	2XL	3XL	4XL	5XL
WAIST	28"	30"	32"	34"	36"	38"	40"	42"
LENGTH	38.5"	39.5"	40.5"	41.5"	42.5"	43"	43.5"	44"

Quebee Fire Fighting suit are made of Multi – layer structure using Nomex as the outer shell, lined with CONEX & TWARON moisture barrier and insulating thermal barrier resistant lining.

*Photos are for illustration purposes only. Actual colors may vary.*

## TenCate Genesis protective fabrics

Genesis with tri-blend comprised of 93% Meta-Aramid, 5% Para-Aramid and 2% Anti-Static fiber to provide head-to-toe protection against heat, flash fire, electric arc and other dangerous conditions.

Ideal for electric and gas utilities, fire service stationwear, emergency medical services, petroleum refineries, chemical, racing or military; Genesis® is lightweight, breathable fabrics. It is flame resistance and durability wash after wash for the ultimate in durability.

- Good resistance to tears and abrasion
- Proprietary wicking finish stays soft, keep cool and dry
- Unbeatable durability retains professional look even after rugged use
- Genesis® is available in 2 weights; 4.5 osy and 6.0 osy
- NFPA2112 and ASTM1506 certified





# PROTECTIVE APPARELS

## QB-UXF-X6-968-NB

Outer Shelf : 6.0oz Nomex IIIA; 93% Nomex / 5% Kevlar / 2% P140; Twill Weave (200 gm)  
Moisture Barrier : 70% Conex / 30% Twaron Laminated to FR PTFE Membrane 70gm)  
Thermal Felt : 95% Nomex / 5% Kevlar (150gm)  
Lining : 50% Nomex / 50% FR Viscose (130gm)  
Reflective Tape : 3M Scotchlite Fluorescent Line-Yellow Fire Coated  
Color : Navy Blue  
Packaging : 1 suit per bag  
Sizes : M, L & XL Only (other sizes on request)  
Approval : EN 340: 2003, EN 469: 2005

### Fire Fighting Suit, Trouser

- Two large Front Flapped Pockets
- Flapped bellow pocket on each leg
- Leg Cuffs with leather trimming
- 3M Scotchlite Reflective Tapes were installed to enhance high visibility

### Fire Fighting Suit, Jacket / Coat

- Upright collar closed with Velcro tabs can be turned down
- Chest pocket on the jackets installed with radio pockets and microphone bracket
- The front opening closed with brass zipper which is covered by a Velcro-sealed plate
- Cuff with inner rib sleeve to prevent fire incursion
- 3M Scotchlite Reflective Tapes were installed to enhance high visibility



## QB firefighter Glove

- Outer Shelf: 6.0oz Nomex IIIA; 93% Nomex / 5% kevlar / 2% P140; Twill Weave (200gm)
- Moisture Barrier: 70% Conex / 30% Twaron Laminated to FR PTFE Membrane (70gm)
- Thermal Felt: 95% Nomex / 5% Kevlar (150gm)
- Lining: 50% Nomex / 50% FR Viscose (130gm)
- Reflective tape: 3M Scotchlite fluorescent line-yellow fire coated tape
- Color: Navy blue
- Packaging: 1 pair / poly bag
- Sizes: M & L only







## Flame Resistance (Coverall / Jacket & Pants) Protective Apparels

Quebee Flame Resistance (QFR) garments are made from 98% cotton and 2% Anti-static blend fabrics that combines the durability and the comfort of cotton. Despite their soft texture and pleasant next-to-skin comfort, Quebee® QFR garments are highly durable due to their strong abrasion resistance.

QFR garments provide limited protection in the event of a flash fire or electric arc flash. In other words, the purpose of QFR garments is to limit damage done to the body and to provide extra crucial seconds to get away from the flash fire. Its two main function is to slow down the transfer of heat through the garment and insulating the body against the heat source. Secondly, self-extinguishing and not continuing to burn when the flame/heat source is removed.



Quebee Flame Resistance (Coverall)

QB-QFR-CL-NB / QB-QFR-CL-OR

Quebee Flame Resistance (Coverall)

QB-QFR-JK-NB / QB-QFR-JK-OR  
QB-QFR-PT-NB / QB-QFR-PT-OR

### Specifications

Fabric Material:	FR Cotton Treated. 98% cotton and 2% Anti-Static
Type & Weight:	Twill 220 gsm
Wash count:	50 wash
Colour:	Orange & Navy Blue in
Design:	Jackets & Pants and Coverall
Reflective Tape:	2 inches Silver Flame Resistant Reflective Tape

### Compliances

- EN ISO 11612:2015:** Protection against Industrial Heat and Flame Hazards
- EN ISO 11611:2015:** Protection against Welding Hazards
- EN 1149-5:2008 :** Electrostatic Properties according to Charge Decay Method

# PROTECTIVE APPARELS

## Chemical Protective Clothing & Headgear

### Alpha Solway Chemmaster Clothing

Chemmaster is the well established and proven range of chemical protective clothing from Alpha Solway. The range offers a robust, practical and economical range of garments, including coveralls, jackets, trousers, bibs and brace, surgical coats, leggings, sleeves, headgear and aprons.

- Manufactured from a high tear / abrasion resistant
- 380 gm<sup>2</sup> PVC coated nylon fabric
- Stitched and high frequency welded seams
- Exceptional chemical resistant properties against many acids & alkalis
- Ideal for a wide variety of chemical handling operations

#### Suggested Usage

Manufactured in a robust and practical fabric, Chemmaster garments will protect against many acids, alkalis and solvents.



BD-CMBH



BD-CMH10



### Chemmaster Protective Headgear (Apollo)

Chemical splash hood, with fixed double skin wide angle- anti-mist visor system, ventilation ports and extended front and back apron, with velcro closure. Designed to wear with safety helmet. Conforms to BS EN467:1995



BD-CMH4

### Chemmaster Protective Headgear

Chemical splash hood, with neck and shoulder cape, visor and apron front. Conforms to BS EN467:1995



BD-CMH8

### Chemmaster Protective Headgear

Chemical splash hood, with neck and shoulder cape, apron front, with anti-mist visor and ventilation ports. Conforms to BS EN467:1995



Chemicals, fats, oils, grease, punctures and abrasions are just some of the hazards industrial handlers are exposed to in their daily work. To shield their bodies from unwanted harm, they need effective protection. Made of high quality vinyl and neoprene that is soft and flexible, Quebee aprons have the versatility to meet medium to heavy duty protective needs.

### QB Heavy Duty Neoprene Apron

QB-BSA300-56411

- Made from 19oz. heavy duty black neoprene
- Offer broad spectrum protection from a wide range of chemicals
- Sizes : 35" X 43"
- Thickness : 22 mils
- Color : Black



### QB Heavy Duty Vinyl Apron

QB-BSA500-460-54742

- Made from heavy duty vinyl
- Offers greater resistance to chemicals, fats, oils, grease, punctures and abrasion
- Sizes : 35" X 45"
- Thickness : 20 mils
- Color : Green



### QB Regular Duty Vinyl Apron

QB-BEA06-R-54441

- Premium Quality Industrial Apron
- Made from high quality vinyl
- Combines flexible and resistance to chemicals, fats, oils and punctures
- Sizes : 35" X 48"
- Thickness : 7.5 mils
- Color : Blue



### QB Vinyl Coat Apron

QB-BSA900-56910

- Made from high quality vinyl with dielectrically welded seams
- Provide chemical resistance and frontal protection
- Full sleeves with elastic wrists for additional arm protection
- Very good for high-tech applications, labs, FAB rooms and many chemicals used in electronics manufacturing
- Size : 51" X 27"
- Thickness : 8 mils
- Color : Blue





# PROTECTIVE APPARELS

## Black Stallion 36AHS Aluminium Kevlar Apron

BS-36AHS

- Standard high temperature bib apron
- 19 oz. aluminized carbon/Kevlar®
- 36" length"
- Size(s): One size



## QB PVC Apron QB-AP-42X29-YW

- Supported PVC / Polyester
- Bib Ties
- Approx. Size: 29" x 42"
- Available in Yellow and White



## Ansell Disposable Polyethylene Aprons

Economical protection for light to medium duty use

AE-54-290

- High quality virgin material combines flexibility and resistance to chemicals, fat and oils
- Easy to clean, conveniently packaged and available in embossed or smooth styles
- Component materials comply with FDA regulations for food contact
- Available in model: 54-290 white polyethylene embossed, 1.75mil  
Size: 28" x 45"



## Tempshield Cryo Apron

Protection from cryogenic atmospheres and splashes  
TS-CA42-APRON

- Superior thermal protection
- Waterproof
- Comfortable/ Lightweight/ Breathable
- Warmth and splash protection for torso and upper legs
- Adjustable straps at neck and waist
- Side release buckles for quick on/off
- Available in sizes: 24" x 42", 24" x 48"





## Protective Sleeves

### QB Vinyl Sleeves

QB-ASC06-59001-BU

- A full 18 inches sleeve, 8 mil.
- Vinyl styles are completely heat sealed with no exposed elastic
- Excellent protection against chemicals, snaps, punctures and abrasions



### Dupont Tyvek Sleeves

DP-14500

#### Features:

- Elastic at both ends
- Providing forearm protection when required
- Length: 17", one size fits all



### Black Stallion 18" Kevlar® Knit Sleeve

BS-KK-18S

- SafSleevez™ Kevlar® knit sleeves
- 18" length
- Double layer
- Cut, abrasion and flame-resistant
- ANSI cut level 3
- **CAUTION:** User must determine if this product provides adequate protection
- Size(s): 18" length



### Black Stallion Aluminized carbon/ Kevlar® High Temp Sleeves

BS-AHS14 / BS-AHS18

- Standard high temperature sleeves
- 19 oz. aluminized carbon/Kevlar®
- Pull strap
- 14" / 18" length



# PROTECTIVE APPARELS

## QB PVC/Polyester Yellow Rainsuit [QB-HD3512](#)

- Jacket with nylon zip
- Closure front with plastic snaps
- Attached hood with drawstring
- Raglan sleeves with plastic snaps
- 2 flapped pockets and vented yoke back
- Pants with elasticized waist
- Bottom plastic snaps
- 100% waterproof
- Comfortable wear



## QB HD3543 PVC/Polyester Raincoat [QB-HD3543](#)

- Attached hood with drawstring
- Raglan sleeves with plastic snaps
- Closure front with plastic snaps
- 2 flap pockets in front
- Ventilation opening on back
- 100% waterproof
- Comfortable wear



## Reflective Waist Coat



### Panda Safety Vest [PD-195-YM/WTXB](#)

- High-visibility fluorescent mesh material
- Two horizontal bands of 50mm wide reflective tape
- Two vertical bands over each shoulder joining the upper body band front and crossing at the back
- Silver reflective strip (PD195) and yellow reflective strip (PD194)
- Conforms to EN471
- Color: fluorescent yellow (PD195) or orange red (PD194)
- Size: One size fits all



### Panda Fabric Safety Vest [PD-295-YF/WTXB](#)

- Polyester tricot high-visibility material
- Two horizontal bands of 50mm reflective tape
- Two vertical bands over each shoulder joining the upper body band front and crossing at the back
- Silver reflective strip
- Conforms to EN471
- Color: fluorescent yellow
- Size: One size fits all



### Panda Elastic Reflective Brace c/w Buckle [PD-637-STXB](#)

- Easy adjust for a secure and comfortable fit
- Retain its color under toughest weather
- Quick release buckle for easy donning and doffing
- Suitable for construction workers, street workers, traffic control, public utilities and safety patrols
- Color: Fluorescent Yellow, orange
- Material: Nylon, Polyester
- Tape: Silver reflective







Tempex classic line has proven its worth over the course of many years of use in cold stores. Certification according to EN342 and the high-quality materials used-for example, the hard-wearing NR-Classic polyamide outer fabric-give its wearer the certainty that they will be perfectly protected, whatever they do, added to this is the fact that the individual products are so well coordinated that they complement each other intelligently, forming a complete protection system. Further advantages of our Classic line include the Tempex Thermosoft high-bulk insulating non-woven developed specially for work clothing, reflective tapes for outstanding visibility and the comfortable, functional styles.

### Trousers TP-30006-1026

- With kidney guard and fixed elastic braces. Slit closure (not included on womens trousers). Full lengths side zipper with inner flaps. 2 side pockets. Seam reinforcement made of outer fabric. Reflective tape around the legs
- Adjustable suspenders
- Raised back
- Front zipper
- Full-length leg zippers with inner flaps
- Side pockets
- Reinforced hem made of the outer fabric
- Circumferential reflective tape on the legs

Seam reinforcement for long durability. Acrylic fur knee insulation.



Care:-----



### Order Picker's Coverall TP-30012-1026

- Tightly fitting acrylic fur collar with velcro fastener. Sleeves with knitted cuffs. 2-way-front zipper with additional covering flaps with press studs. Legs with long side zippers with inner flaps. Elastic waistband at the back. Waist adjustable at the side. 2 breast pockets and 2 side pockets with flaps. With additional acrylic fur knee insulation. Seam reinforcement made of outer fabric. Reflective tape around chest arms and legs
- Tight-fitting collar of faux fur with a velcro fastener
- 2 chest pockets
- 2 front pockets
- Covered 2-way front zipper
- Knitted cuffs
- Elastic waistband in the back
- Adjustable hip size
- Leg zippers with inner flaps
- Knee insulation made of acrylic fur lining
- Reinforced hem made of the outer fabric
- Circumferential reflective tape on chest and legs

Care:-----



### Jacket TP-30001-1026

- Tightly fitting acrylic fur collar with velcro fastener. Sleeves with knitted cuffs.
- Front zipper with additional covering flaps with press studs. Elastic waistband at the back. 2 side pockets with flap. Reflective tape around chest and arms
- Hood with faux fur lining and tight-fitting knit edge
- Left-side chest pocket with zipper
- 2 front pockets
- Covered 2-way front zipper
- Knitted cuffs
- Elastic waistband in the back
- Circumferential reflective tape

Care:-----



# PROTECTIVE APPARELS



## Supervisor's Coat TP-30011-1026

- Fixed hood with acrylic fur lining. Tightly closing with flap. Sleeves with knitted cuffs. Front with 2-way-zipper and additional covering flaps with press studs. Elastic waistband at the back. 2 side pockets with flap. One breast pocket. Reflective tape around chest and arms
- Tight-fitting collar faux fur with a Velcro fastener
- Left-side chest pocket with zipper
- knitted cuffs
- Elastic waistband in the back
- Circumferential reflective tape

Care: -----



## Hood, Classic TP-30051-1026

- Tightly closing. With drawstring and adjustable tab closure. 2 button holes for fixing to jacket. Suitable for jacket and coverall
- Tight-fitting knit edge
- Front press button
- Drawcord
- 2 button holes for securing to a jacket
- Suitable for Classic jackets and overalls

Care: \_\_\_\_\_



## Tempex Cold Protection Sizes

Men's sizes

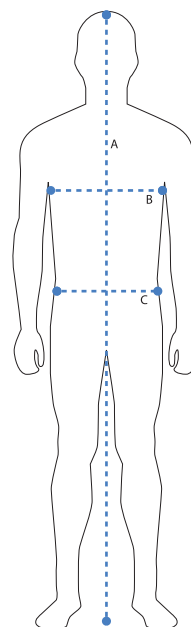
Clothing size		Body size	Waist	Chest
46/48	S	170 - 176	76 - 84	88 - 96
50/52	M	176 - 182	84 - 92	96 - 104
54/56	L	182 - 188	92 - 104	104 - 112
58/60	XL	182 - 188	104 - 112	112 - 120
62/64	XXL	182 - 194	112 - 124	120 - 128

For sizes larger than 58/60, we charge an additional +10% oversize fee.

Women's sizes

Clothing size		Body size	Waist	Chest
36/38	S	158 - 174	64 - 72	82 - 90
40/42	M	158 - 174	72 - 80	90 - 98
44/46	L	158 - 174	80 - 89	98 - 107
48/50	XL	158 - 174	89 - 101	107 - 119

For sizes larger than 48/50, we charge an additional +10% oversize fee.



A = Body size  
Measured from head to toe

B = Chest circumference  
Measured around over the chest or under the arms

C = Waist size  
Measured around the waist  
(Narrowest point)