


Chemical manufacturing



# Personal protective solutions for chemical manufacturing industry applications







# Because everyone has someone depending on them to get home safely

DuPont is more focused than ever on providing innovative protection solutions and expert technical support tailored to meet the specific needs of workers in chemical manufacturing industries around the world.

Because their safety is our business, workers in the chemical manufacturing industries can rely on the world-class people, products and innovation that have made DuPont a trusted partner in personal protection.

With a wide range of industry-leading personal protective equipment (PPE) solutions and a global network of PPE specialists, technical experts and manufacturing, DuPont is uniquely suited to provide the protection and comfort every worker deserves to face a range of workplace hazards with confidence.

## Our brands

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### Nomex®

DuPont™ Nomex® offers a tested and proven portfolio of protective solutions that continues to meet or exceed global standards for heat, flame and electric arc flash protection.\*

### Kevlar®

Gloves made with DuPont™ Kevlar® offer industry-leading cut protection, built-in heat and flame resistance and electric arc flash protection, while providing the dexterity and comfort workers want.

### Tyvek®

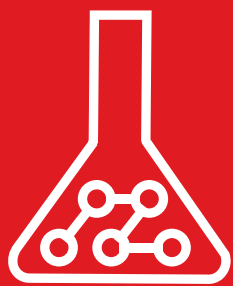
DuPont™ Tyvek® garments provide workers with superior protection from small-sized hazardous particles, including lead, asbestos and mold. And because protection is built into the fabric itself, there are no films or laminates to abrade or wear away.

### Tychem®

DuPont™ Tychem® garments deliver durable protection and offer strong permeation barrier against a wide range of chemicals. Together with Tychem® gloves and tape, they create the Tychem® Trusted Chemical System™ for complete protection.

\*For high arc-rated solutions, visit [dpp.dupont.com](http://dpp.dupont.com) for available Nomex® layering systems.

# Are your workers really protected?

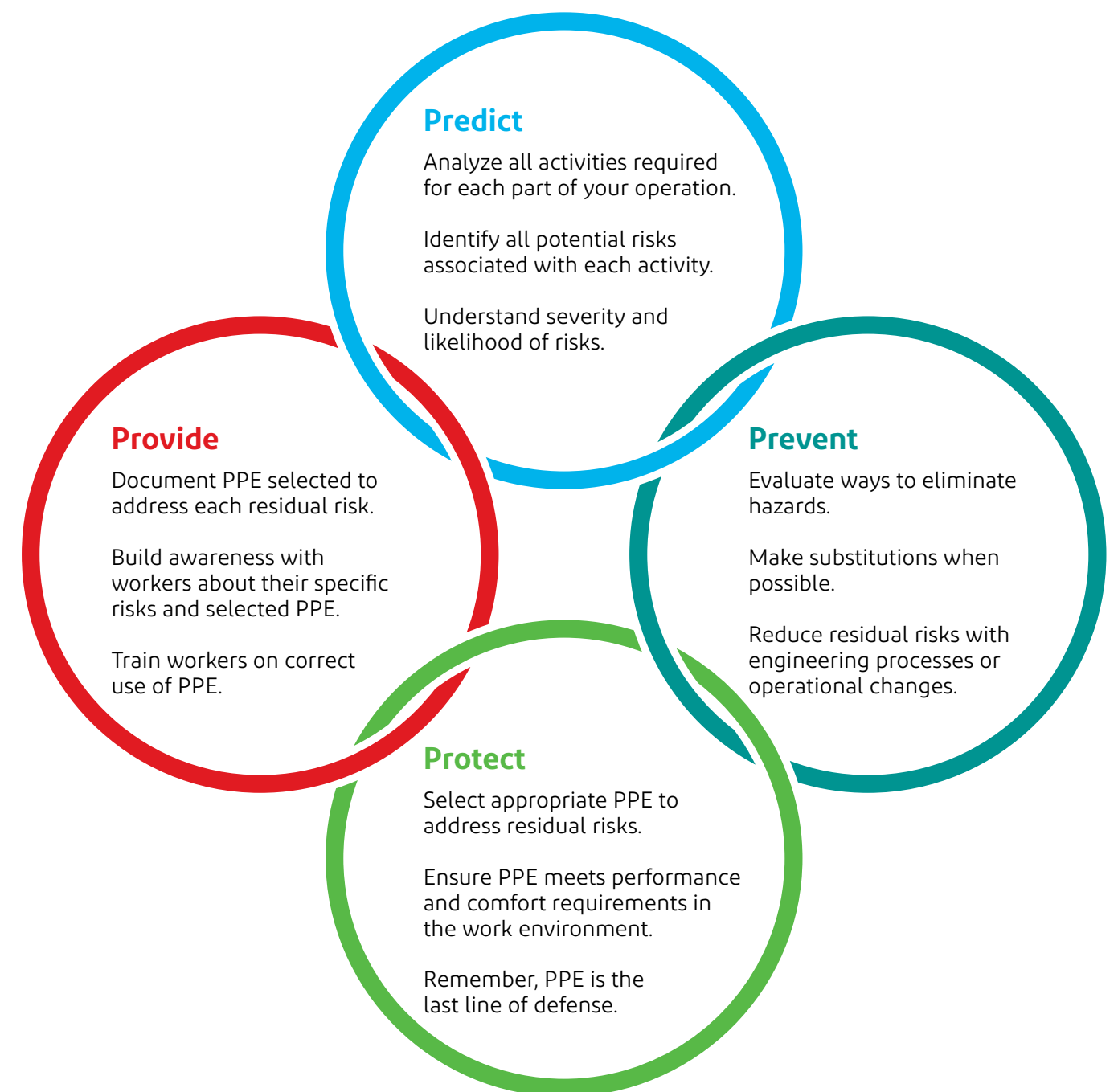


Workers in chemical manufacturing industries face a variety of on-the-job hazards, including flash fire, sharp edges, punctures and exposure to hazardous chemicals, dust and solvents—to name just a few.

Providing workers with the protection they need for the hazards they face is a major responsibility. DuPont Personal Protection has the in-depth knowledge, unparalleled expertise and broad portfolio of PPE solutions to help keep your workers safe.

DuPont PPE solutions are designed to meet or exceed global standards for protection and performance, including National Fire Protection Association (NFPA), ASTM International, Canadian General Standards Board (CGSB), American National Standards Institute (ANSI), International Organization for Standardization (ISO) and China GB National Standards.

**To help you in the decision-making process, from risk assessment through implementation, we recommend using the 4P methodology:**





# Chemical manufacturing—creating a variety of products means a variety of hazards

There are five main chemical manufacturing subsegments—commodities, agrochemical, pharmaceutical, specialty and consumer. Workers in each of these subsegments manufacture a multitude of different products that are critical to our daily lives.

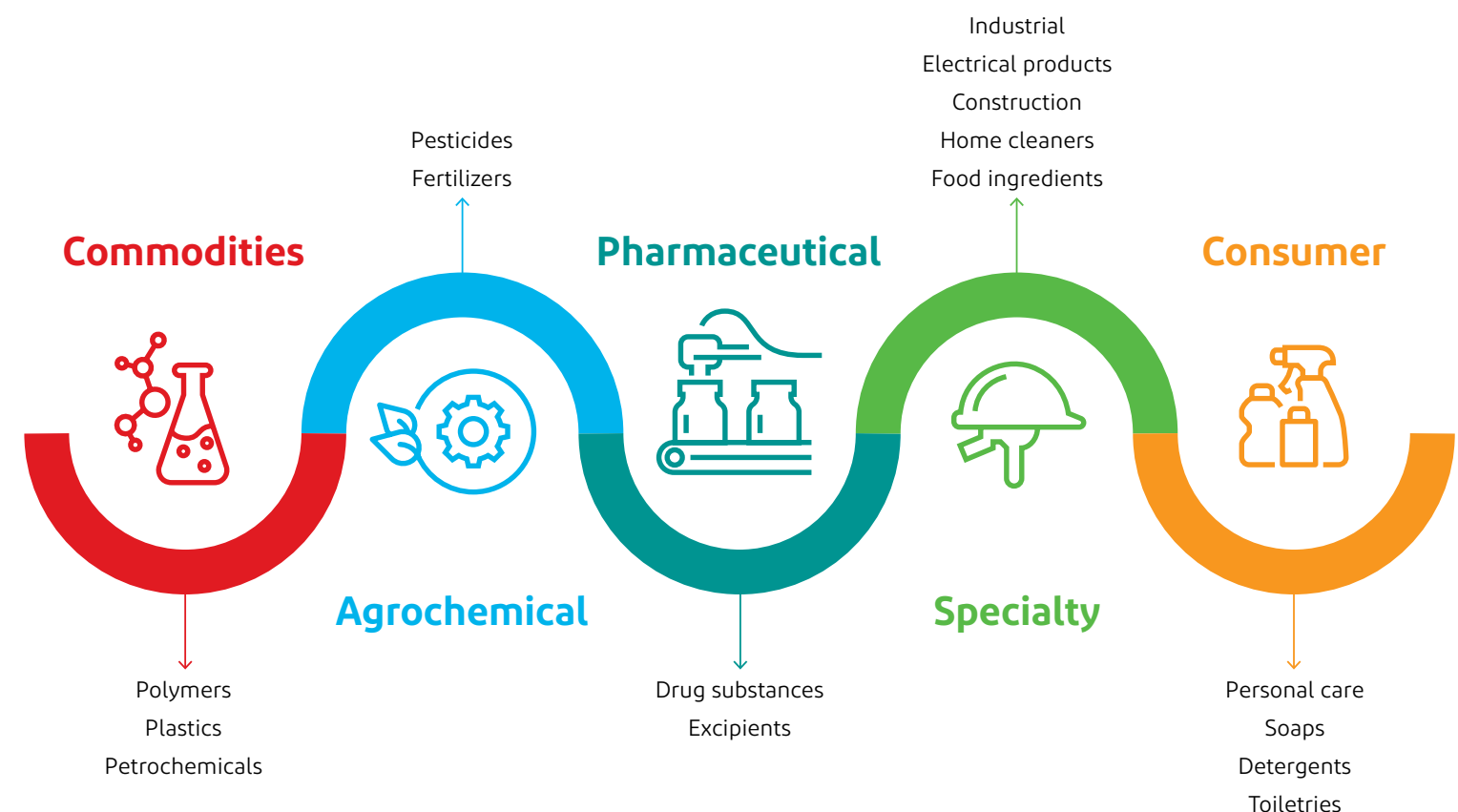
While doing this critical work, these essential workers are exposed to a variety of hazards ranging from flash fire and hazardous chemicals, dust and solvents to sharp edges and punctures. As a result, health, safety and environment (HSE) managers have many tasks to balance.

DuPont offers a broad range of comprehensive, one-stop PPE solutions to address these hazards and help simplify the PPE selection process, including: Nomex® garments for flash fire hazards; Tyvek® garments for protection against fine particle hazards and low level liquid splashes; Tychem® garments, gloves and tape for protection against concentrated chemicals; and gloves made with Kevlar® for cut and multi-hazard protection.

DuPont™ SafeSPEC™, our powerful web-based tool, has a full permeation test results database for Tychem® fabrics and allows you to search by hazard to help find the right protection. DuPont™ Thermo-Man®, the world's most advanced life-sized thermal burn injury evaluation unit, is used in our technical centers around the world to evaluate the heat and flame resistance that FR garments can deliver in a simulated flash fire.

As an industry leader in chemical manufacturing, DuPont also has a large team of experts around the globe who are available to work side by side with HSE managers to help them navigate the available PPE solutions for each site based on the specific hazards workers face.

## Chemical subsegments







# Protection for every task

DuPont products and PPE solutions are identified by our licensees' branded names.



## Laboratory

### Tasks

Perform analytical testing on all types of manufacturing raw materials, products and intermediate streams

### Hazards

Chemical exposures

Flash fire

Cut hazards requiring either cut level A2 or A3 protection  
OR cut level A2 protection with thermal level 4 protection.

For a full list of PPE solutions, visit [SafeSPEC™](#).



### Available PPE options

#### Flame-resistant (FR) garments



##### Nomex® Comfort

Nomex® Comfort is a lightweight, quick-drying innovative fabric that delivers extreme heat and flame protection, maximum comfort and excellent durability. Garments are available in men's and women's styles and sizes.



**NOTE:** Certifications listed here are for Nomex® Comfort fabric; consult with garment manufacturer for garment certifications.



##### Nomex® Essential

A highly durable protective solution that helps minimize break-open and offers excellent heat and flame protection.



**NOTE:** Certifications listed here are for Nomex® Essential fabric; consult with garment manufacturer for garment certifications.



##### Nomex® FR/CP lab coat

Made of innovative Westex® ShieldCXP™ fabric with Nomex® Essential fibers, this lightweight, breathable flame-resistant/chemical-protective (FR/CP) lab coat helps provide protection against multiple hazards and is comfortable to wear. It won't ignite during short-duration thermal incidents or emergency exposure to flame and repels small amounts of liquid chemicals. This innovative lab coat offers 5.6 cal/cm² arc thermal performance value (ATPV) protection.

**NOTE:** Please consult with fabric and garment manufacturers for certifications.



##### FR face mask made with Nomex®

Made with Nomex® Comfort fabric, this FR face mask from PGI Safety may help meet guidance from the U.S. Centers for Disease Control and Prevention (CDC) for wearing masks in environments that require FR protection while social distancing. This FR face mask offers exceptional breathability and durability with inherent, built-in flame resistance that cannot be washed out or worn away.

**\*FR face masks are for use while social distancing and may be used for other tasks identified by a site hazard risk assessment.**





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## Non-FR/chemical-protective garments



### Tychem® 2000

Tychem® 2000 is a lightweight and durable fabric that uses the strength of Tyvek® fabric and polyethylene coating. Tychem® 2000 offers permeation barrier protection for at least 30 minutes against more than 40 chemical challenges.



### Tychem® 4000

Tychem® 4000 offers effective protection against a range of chemical environments, offering at least 30 minutes of protection against more than 120 chemical challenges.



### Tychem® 5000 C3275

This knee-length apron with attached sleeves offers enhanced frontal protection. It is made with Tychem® 5000 fabric, a multi-layer film barrier laminated to a durable polypropylene substrate. Strong and durable, Tychem® 5000 offers an effective barrier to a broad range of (>145) chemicals.



### Tychem® 6000

Tychem® 6000 garments are made of a proprietary barrier film laminated to a Tyvek® substrate. The fabric offers at least 30 minutes of protection against more than 180 chemical challenges. Tychem® 6000 garments are strong, durable and lightweight.

## Chemical-resistant (CR) gloves\*



### Tychem® NT470

These unlined, 15-mil nitrile gloves offer protection against a wide range of solvents, oils, hydrocarbons, greases and other chemicals. Thin and lightweight, Tychem® NT470 gloves are ergonomically designed to maximize comfort. The bisque finish grip makes working in humid environments easier.

Cat. III



2777

EN 388:2016



2001X

EN ISO 374-1:2016  
Type A



JKLOPT

EN ISO 374-5:2016



VIRUS



### Tychem® NP570 CT

These 68-mil neoprene gloves, which feature an engineered yarn liner, provide protection against the dual risk of chemical exposure and cut. Tychem® NP570 CT gloves provide ANSI level A5 and EN level E cut protection, as well as first-class defense against acids, caustics, solvents, greases and oils.

Cat. III



2777

EN 388:2016



3X43E

EN ISO 374-1:2016  
Type A



AJKLMT

EN ISO 374-5:2016



Cut



# Laboratory

## Tasks

Perform analytical testing on all types of manufacturing raw materials, products and intermediate streams

## Hazards

Chemical exposures

Flash fire

Cut hazards requiring either cut level A2 or A3 protection  
OR cut level A2 protection with thermal level 4 protection.

For a full list of PPE solutions, visit SafeSPEC™.



### Tychem® BT730

These unlined, 14-mil butyl gloves provide protection against a wide array of chemicals, including acids, ketones and alcohols. Light and thin with a “second-skin” feel, anatomical shape and rough surface, Tychem® BT730 gloves are comfortable and enable optimal grip. Impermeable for working in damp or greasy environments.

Cat. III



2777

EN 388:2016



0110X

EN ISO 374-1:2016  
Type A



ABCIKLMNPST

EN ISO 374-5:2016



VIRUS



### Tychem® 2000 Tape

Tychem® 2000 Tape helps hold a sleeve over a glove, a pant leg over a boot or a closure flap closed, while providing protection against a variety of inorganic acids and bases, as well as common industrial cleaning agents, such as bleach. The tape tears easily for quick and convenient application. Repositionable once applied, the tape’s elasticity enables tight adhesion to help prevent leaks.

\*Tychem® gloves and tape should not be used around heat, open flame, sparks or in potentially flammable environments. For professional use only.

## Cut-resistant gloves



### Superior Glove® Dexterity® S18KGPU

Seamless knit glove, yellow 18-gauge Kevlar® engineered blend shell, gray polyurethane palm dip coating. Knit cuff.

ANSI/ISEA  
105:2016



Cut

EN 388:2016  
+A1:2018



2X21B



### PIP G-Tek® KEV™ 09-K1250

This glove is a Kevlar® and elastane seamless knit with polyurethane coated flat grip on palm and fingers. Knit wrist.



Cut

EN 388:2016



4231BX

## Thermal gloves



### Superior Glove® Dexterity® SKG/PXNE

Made with a blend of Kevlar® and Protex® yarns, these winter-lined arc flash gloves provide excellent heat and cut resistance. Neoprene palm coating features great FR properties and good oil resistance. These gloves provide 25 cal/cm² ATPV protection.



Cut



Heat



Arc flash level

EN 388



2X43E

EN 407



312XXX



### Ironclad Heatworx® Heavy Duty HW6X

These heavy-duty gloves have a full Kevlar® shell for extra heat protection and improved cut resistance combined with a Kovenex® palm liner and silicone-laminated Kevlar® blend finger sidewalls for extreme heat protection in critical areas.

Cat. II



EN 388:2016  
+A1:2018



4143B



Cut



Heat





# Loading/ unloading rail cars or trucks

## Tasks

Loading/unloading bulk raw materials and products

Transfer and monitor material transfers

## Hazards

Flash fire

Particle exposures

Chemical exposures

Cut hazards requiring cut level A2 and thermal level 4 protection

For a full list of PPE solutions, visit SafeSPEC™.



## Available PPE options

### Flame-resistant (FR) garments



#### Nomex® Comfort

Nomex® Comfort is a lightweight, quick-drying innovative fabric that delivers extreme heat and flame protection, maximum comfort and excellent durability. Garments are available in men's and women's styles and sizes.



**NOTE:** Certifications listed here are for Nomex® Comfort fabric; consult with garment manufacturer for garment certifications.



#### Nomex® Essential

A highly durable protective solution that helps minimize break-open and offers excellent heat and flame protection.



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#### FR face mask made with Nomex®

Made with Nomex® Comfort fabric, this FR face mask from PGI Safety may help meet guidance from the U.S. CDC for wearing masks in environments that require FR protection while social distancing. This FR face mask offers exceptional breathability and durability with inherent, built-in flame resistance that cannot be washed out or worn away.

**\*FR face masks are for use while social distancing and may be used for other tasks identified by a site hazard risk assessment.**

### Particle garments



#### Tyvek® 400

Tyvek® 400 garments are composed of flashspun high-density polyethylene, which creates a unique, nonwoven material. Tyvek® 400 fabric offers an inherent barrier against particles (down to 1.0 micron in size). Protection is built into the fabric itself; there are no films or laminates to abrade or wear away.



#### Tyvek® 800

Tyvek® 800 garments combine resistance to low-concentration, water-based inorganic chemicals with the strength and durability of Tyvek®. The coveralls provide an effective barrier against many water-based inorganic chemicals in low concentration and particles (down to 1.0 micron in size).



Type 3-B



Type 4-B



Type 5-B



Type 6-B

### Non-FR/chemical-protective garments



#### Tychem® 2000

Tychem® 2000 is a lightweight and durable fabric that uses the strength of Tyvek® fabric and polyethylene coating. Tychem® 2000 offers permeation barrier protection for at least 30 minutes against more than 40 chemical challenges.



# Loading/ unloading rail cars or trucks

## Tasks

Loading/unloading bulk raw materials and products

Transfer and monitor material transfers

## Hazards

Flash fire

Particle exposures

Chemical exposures

Cut hazards requiring cut level A2 and thermal level 4 protection

For a full list of PPE solutions, visit SafeSPEC™.



#### Tychem® 4000

Tychem® 4000 offers effective protection against a range of chemical environments, offering at least 30 minutes of protection against more than 120 chemical challenges.



#### Tychem® 6000

Tychem® 6000 garments are made of a proprietary barrier film laminated to a Tyvek® substrate. The fabric offers at least 30 minutes of protection against more than 180 chemical challenges. Tychem® 6000 garments are strong, durable and lightweight.



#### Tychem® 10000

Tychem® 10000, an extremely durable fabric that is puncture- and tear-resistant, offers at least 30 minutes of barrier protection against 322 chemical challenges with no observed breakthrough. Tychem® 10000 is specifically designed for protection against toxic, corrosive gases, liquids and solid chemicals.

### Chemical-resistant/flame-resistant (CR/FR) garments



#### Tychem® 2000 SFR

Tychem® 2000 SFR offers chemical and secondary flame protection in a lightweight garment. Worn over primary FR garments such as Nomex® Comfort, they won't ignite if a flash fire occurs and won't contribute to additional burn injury.



#### Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that offer triple hazard protection against liquid chemical splash, flash fire and electric arc flash. Tychem® 6000 FR offers at least 30 minutes of protection against more than 180 toxic industrial chemicals and may be used as a primary FR garment.



Cat 2

### Chemical-resistant (CR) gloves\*



#### Tychem® PV350

Extremely durable, these 55-mil polyvinyl chloride (PVC) gloves provide protection against chemicals, oils and greases. The cotton/jersey knit lining adds comfort and flexibility while the textured grip makes it easier to grasp wet objects.

Cat. III



2777

EN 388:2016



3111X

EN ISO 374-1:2016 Type B



AKLMP

EN ISO 374-5:2016





# Loading/ unloading rail cars or trucks

## Tasks

Loading/unloading bulk raw materials and products

Transfer and monitor material transfers

## Hazards

Flash fire

Particle exposures

Chemical exposures

Cut hazards requiring cut level A2 and thermal level 4 protection

For a full list of PPE solutions, visit SafeSPEC™.



### Tychem® NT470

These unlined, 15-mil nitrile gloves offer protection against a wide range of solvents, oils, hydrocarbons, greases and other chemicals. Thin and lightweight, Tychem® NT470 gloves are ergonomically designed to maximize comfort. The bisque finish grip makes working in humid environments easier.



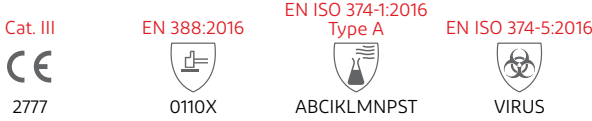
### Tychem® NP570 CT

These 68-mil neoprene gloves, which feature an engineered yarn liner, provide protection against the dual risk of chemical exposure and cut. Tychem® NP570 CT gloves provide ANSI level A5 and EN level E cut protection, as well as first-class defense against acids, caustics, solvents, greases and oils.



### Tychem® BT730

These unlined, 14-mil butyl gloves provide protection against a wide array of chemicals, including acids, ketones and alcohols. Light and thin with a “second-skin” feel, anatomical shape and rough surface, Tychem® BT730 gloves are comfortable and enable optimal grip. Impermeable for working in damp or greasy environments.



### Tychem® 2000 Tape

Tychem® 2000 Tape helps hold a sleeve over a glove, a pant leg over a boot or a closure flap closed, while providing protection against a variety of inorganic acids and bases, as well as common industrial cleaning agents, such as bleach. The tape tears easily for quick and convenient application. Repositionable once applied, the tape’s elasticity enables tight adhesion to help prevent leaks.

\*Tychem® gloves and tape should not be used around heat, open flame, sparks or in potentially flammable environments. For professional use only.

## Thermal gloves



### Superior Glove® Dexterity® SKG/PXNE

Made with a blend of Kevlar® and Protex® yarns, these winter-lined arc flash gloves provide excellent heat and cut resistance. Neoprene palm coating features great FR properties and good oil resistance. These gloves provide 25 cal/cm² ATPV protection.



### Ironclad Heatworx® Heavy Duty HW6X

These heavy-duty gloves have a full Kevlar® shell for extra heat protection and improved cut resistance combined with a Kovenex® palm liner and silicone-laminated Kevlar® blend finger sidewalls for extreme heat protection in critical areas.



# Packaging operations

## Tasks

Collection of intermediates and products into various size containers other than tanks

## Hazards

Chemical exposures

Particle exposures

Flash fire

For a full list of PPE solutions, visit SafeSPEC™.



## Available PPE options

### Flame-resistant (FR) garments



#### Nomex® Comfort

Nomex® Comfort is a lightweight, quick-drying innovative fabric that delivers extreme heat and flame protection, maximum comfort and excellent durability. Garments are available in men’s and women’s styles and sizes.



**NOTE:** Certifications listed here are for Nomex® Comfort fabric; consult with garment manufacturer for garment certifications.



#### Nomex® Essential

A highly durable protective solution that helps minimize break-open and offers excellent heat and flame protection.



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#### FR face mask made with Nomex®

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### Particle garments



#### Tyvek® 400

Tyvek® 400 garments are composed of flashspun high-density polyethylene, which creates a unique, nonwoven material. Tyvek® 400 fabric offers an inherent barrier against particles (down to 1.0 micron in size). Protection is built into the fabric itself; there are no films or laminates to abrade or wear away.



#### Tyvek® 800

Tyvek® 800 garments combine resistance to low-concentration, water-based inorganic chemicals with the strength and durability of Tyvek®. The coveralls provide an effective barrier against many water-based inorganic chemicals in low concentration and particles (down to 1.0 micron in size).







# Packaging operations

## Tasks

Collection of intermediates and products into various size containers other than tanks

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Chemical exposures

Particle exposures

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## Non-FR/chemical-protective garments



### Tychem® 2000

Tychem® 2000 is a lightweight and durable fabric that uses the strength of Tyvek® fabric and polyethylene coating. Tychem® 2000 offers permeation barrier protection for at least 30 minutes against more than 40 chemical challenges.



### Tychem® 4000

Tychem® 4000 offers effective protection against a range of chemical environments, offering at least 30 minutes of protection against more than 120 chemical challenges.



### Tychem® 6000

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## Chemical-resistant/flame-resistant (CR/FR) garments



### Tychem® 2000 SFR

Tychem® 2000 SFR offers chemical and secondary flame protection in a lightweight garment. Worn over primary FR garments such as Nomex® Comfort, they won't ignite if a flash fire occurs and won't contribute to additional burn injury.



### Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that offer triple hazard protection against liquid chemical splash, flash fire and electric arc flash. Tychem® 6000 FR offers at least 30 minutes of protection against more than 180 toxic industrial chemicals and may be used as a primary FR garment.



Cat 2



# Packaging operations

## Tasks

Collection of intermediates and products into various size containers other than tanks

## Hazards

Chemical exposures

Particle exposures

Flash fire

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## Chemical-resistant (CR) gloves\*



### Tychem® PV350

Extremely durable, these 55-mil PVC gloves provide protection against chemicals, oils and greases. The cotton/jersey knit lining adds comfort and flexibility while the textured grip makes it easier to grasp wet objects.

Cat. III



2777

EN 388:2016



3111X

EN ISO 374-1:2016



AKLMP

EN ISO 374-5:2016



### Tychem® NT470

These unlined, 15-mil nitrile gloves offer protection against a wide range of solvents, oils, hydrocarbons, greases and other chemicals. Thin and lightweight, Tychem® NT470 gloves are ergonomically designed to maximize comfort. The bisque finish grip makes working in humid environments easier.

Cat. III



2777

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VIRUS



### Tychem® NP570 CT

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3X43E

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Cut



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VIRUS



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# Product separation/ purification

## Tasks

Open and closed product purification and isolation (distillation, filtration, centrifugation, precipitation, drying, etc.)

## Hazards

Chemical exposures

Particle exposures

Flash fire

Pressurized equipment

Cut hazards requiring cut level A2 and thermal level 4 protection

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## Available PPE options

### Flame-resistant (FR) garments



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Type 3-B



Type 4-B



Type 5-B



Type 6-B

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Cat 2

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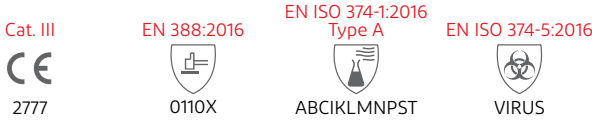
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## Thermal gloves



### Superior Glove® Dexterity® SKG/PXNE

Made with a blend of Kevlar® and Protex® yarns, these winter-lined arc flash gloves provide excellent heat and cut resistance. Neoprene palm coating features great FR properties and good oil resistance. These gloves provide 25 cal/cm² ATPV protection.



### Ironclad Heatworx® Heavy Duty HW6X

These heavy-duty gloves have a full Kevlar® shell for extra heat protection and improved cut resistance combined with a Kovenex® palm liner and silicone-laminated Kevlar® blend finger sidewalls for extreme heat protection in critical areas.



# Raw material/process sampling

## Tasks

Collection of raw material, process and other samples (closed or open)

## Hazards

Flash fire

Chemical exposures

Particle exposures

For a full list of PPE solutions, visit SafeSPEC™.



## Available PPE options

### Flame-resistant (FR) garments



#### Nomex® Comfort

Nomex® Comfort is a lightweight, quick-drying innovative fabric that delivers extreme heat and flame protection, maximum comfort and excellent durability. Garments are available in men’s and women’s styles and sizes.



**NOTE:** Certifications listed here are for Nomex® Comfort fabric; consult with garment manufacturer for garment certifications.



#### Nomex® Essential

A highly durable protective solution that helps minimize break-open and offers excellent heat and flame protection.



**NOTE:** Certifications listed here are for Nomex® Essential fabric; consult with garment manufacturer for garment certifications.



#### FR face mask made with Nomex®

Made with Nomex® Comfort fabric, this FR face mask from PGI Safety may help meet guidance from the U.S. CDC for wearing masks in environments that require FR protection while social distancing. This FR face mask offers exceptional breathability and durability with inherent, built-in flame resistance that cannot be washed out or worn away.

\*FR face masks are for use while social distancing and may be used for other tasks identified by a site hazard risk assessment.

### Particle garments



#### Tyvek® 400

Tyvek® 400 garments are composed of flashspun high-density polyethylene, which creates a unique, nonwoven material. Tyvek® 400 fabric offers an inherent barrier against particles (down to 1.0 micron in size). Protection is built into the fabric itself; there are no films or laminates to abrade or wear away.



#### Tyvek® 800

Tyvek® 800 garments combine resistance to low-concentration, water-based inorganic chemicals with the strength and durability of Tyvek®. The coveralls provide an effective barrier against many water-based inorganic chemicals in low concentration and particles (down to 1.0 micron in size).





# Raw material/ process sampling

## Tasks

Collection of raw material,  
process and other samples  
(closed or open)

## Hazards

Flash fire

Chemical exposures

Particle exposures

For a full list of PPE solutions,  
visit [SafeSPEC™](#).



## Non-FR/chemical-protective garments



### Tychem® 2000

Tychem® 2000 is a lightweight and durable fabric that uses the strength of Tyvek® fabric and polyethylene coating. Tychem® 2000 offers permeation barrier protection for at least 30 minutes against more than 40 chemical challenges.



### Tychem® 4000

Tychem® 4000 offers effective protection against a range of chemical environments, offering at least 30 minutes of protection against more than 120 chemical challenges.



### Tychem® 6000

Tychem® 6000 garments are made of a proprietary barrier film laminated to a Tyvek® substrate. The fabric offers at least 30 minutes of protection against more than 180 chemical challenges. Tychem® 6000 garments are strong, durable and lightweight.



### Tychem® 10000

Tychem® 10000, an extremely durable fabric that is puncture- and tear-resistant, offers at least 30 minutes of barrier protection against 322 chemical challenges with no observed breakthrough. Tychem® 10000 is specifically designed for protection against toxic, corrosive gases, liquids and solid chemicals.

## Chemical-resistant/flame-resistant (CR/FR) garments



### Tychem® 2000 SFR

Tychem® 2000 SFR offers chemical and secondary flame protection in a lightweight garment. Worn over primary FR garments such as Nomex® Comfort, they won't ignite if a flash fire occurs and won't contribute to additional burn injury.



### Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that offer triple hazard protection against liquid chemical splash, flash fire and electric arc flash. Tychem® 6000 FR offers at least 30 minutes of protection against more than 180 toxic industrial chemicals and may be used as a primary FR garment.



Cat 2



# Raw material/ process sampling

## Tasks

Collection of raw material,  
process and other samples  
(closed or open)

## Hazards

Flash fire

Chemical exposures

Particle exposures

For a full list of PPE solutions,  
visit [SafeSPEC™](#).



## Chemical-resistant (CR) gloves\*



### Tychem® PV350

Extremely durable, these 55-mil PVC gloves provide protection against chemicals, oils and greases. The cotton/jersey knit lining adds comfort and flexibility while the textured grip makes it easier to grasp wet objects.

Cat. III



2777

EN 388:2016



3111X

EN ISO 374-1:2016



AKLMP

EN ISO 374-5:2016



### Tychem® NT470

These unlined, 15-mil nitrile gloves offer protection against a wide range of solvents, oils, hydrocarbons, greases and other chemicals. Thin and lightweight, Tychem® NT470 gloves are ergonomically designed to maximize comfort. The bisque finish grip makes working in humid environments easier.

Cat. III



2777

EN 388:2016



2001X

EN ISO 374-1:2016



JKLOPT

EN ISO 374-5:2016



VIRUS



### Tychem® NP530

Tychem® NP530 gloves are resistant to a range of chemicals. Neoprene over natural rubber construction enhances dexterity and reduces hand fatigue. The cotton flock lining increases comfort and the embossed grip encourages runoff of fluid.

Cat. III



0321

EN 388:2016



2021X

EN ISO 374-1:2016



AKLMNT

EN ISO 374-5:2016



### Tychem® BT730

These unlined, 14-mil butyl gloves provide protection against a wide array of chemicals, including acids, ketones and alcohols. Light and thin with a “second-skin” feel, anatomical shape and rough surface, Tychem® BT730 gloves are comfortable and enable optimal grip. Impermeable for working in damp or greasy environments.

Cat. III



2777

EN 388:2016



0110X

EN ISO 374-1:2016



ABCIKLMNPST

EN ISO 374-5:2016



VIRUS

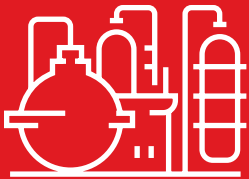


### Tychem® 2000 Tape

Tychem® 2000 Tape helps hold a sleeve over a glove, a pant leg over a boot or a closure flap closed, while providing protection against a variety of inorganic acids and bases, as well as common industrial cleaning agents, such as bleach. The tape tears easily for quick and convenient application. Repositionable once applied, the tape's elasticity enables tight adhesion to help prevent leaks.

\*Tychem® gloves and tape should not be used around heat, open flame, sparks or in potentially flammable environments. For professional use only.





# Reactor operations

## Tasks

Open and closed charging of raw materials into reaction equipment

## Hazards

Chemical exposures (powder and liquid)

Particle exposures

Flash fire

Pressurized equipment

Cut hazards requiring cut level A2 and thermal level 3 protection

For a full list of PPE solutions, visit SafeSPEC™.



## Available PPE options

### Flame-resistant (FR) garments



#### Nomex® Comfort

Nomex® Comfort is a lightweight, quick-drying innovative fabric that delivers extreme heat and flame protection, maximum comfort and excellent durability. Garments are available in men's and women's styles and sizes.



**NOTE:** Certifications listed here are for Nomex® Comfort fabric; consult with garment manufacturer for garment certifications.



#### Nomex® Essential

A highly durable protective solution that helps minimize break-open and offers excellent heat and flame protection.



**NOTE:** Certifications listed here are for Nomex® Essential fabric; consult with garment manufacturer for garment certifications.



#### FR face mask made with Nomex®

Made with Nomex® Comfort fabric, this FR face mask from PGI Safety may help meet guidance from the U.S. CDC for wearing masks in environments that require FR protection while social distancing. This FR face mask offers exceptional breathability and durability with inherent, built-in flame resistance that cannot be washed out or worn away.

\*FR face masks are for use while social distancing and may be used for other tasks identified by a site hazard risk assessment.

### Particle garments



#### Tyvek® 400

Tyvek® 400 garments are composed of flashspun high-density polyethylene, which creates a unique, nonwoven material. Tyvek® 400 fabric offers an inherent barrier against particles (down to 1.0 micron in size). Protection is built into the fabric itself; there are no films or laminates to abrade or wear away.



#### Tyvek® 800

Tyvek® 800 garments combine resistance to low-concentration, water-based inorganic chemicals with the strength and durability of Tyvek®. The coveralls provide an effective barrier against many water-based inorganic chemicals in low concentration and particles (down to 1.0 micron in size).



Type 3-B



Type 4-B



Type 5-B



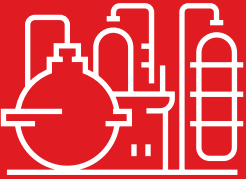
Type 6-B

### Non-FR/chemical-protective garments



#### Tychem® 2000

Tychem® 2000 is a lightweight and durable fabric that uses the strength of Tyvek® fabric and polyethylene coating. Tychem® 2000 offers permeation barrier protection for at least 30 minutes against more than 40 chemical challenges.



# Reactor operations

## Tasks

Open and closed charging of raw materials into reaction equipment

## Hazards

Chemical exposures (powder and liquid)

Particle exposures

Flash fire

Pressurized equipment

Cut hazards requiring cut level A2 and thermal level 3 protection

For a full list of PPE solutions, visit SafeSPEC™.



#### Tychem® 4000

Tychem® 4000 offers effective protection against a range of chemical environments, offering at least 30 minutes of protection against more than 120 chemical challenges.



#### Tychem® 6000

Tychem® 6000 garments are made of a proprietary barrier film laminated to a Tyvek® substrate. The fabric offers at least 30 minutes of protection against more than 180 chemical challenges. Tychem® 6000 garments are strong, durable and lightweight.



#### Tychem® 10000

Tychem® 10000, an extremely durable fabric that is puncture- and tear-resistant, offers at least 30 minutes of barrier protection against 322 chemical challenges with no observed breakthrough. Tychem® 10000 is specifically designed for protection against toxic, corrosive gases, liquids and solid chemicals.

### Chemical-resistant/flame-resistant (CR/FR) garments



#### Tychem® 2000 SFR

Tychem® 2000 SFR offers chemical and secondary flame protection in a lightweight garment. Worn over primary FR garments such as Nomex® Comfort, they won't ignite if a flash fire occurs and won't contribute to additional burn injury.



#### Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that offer triple hazard protection against liquid chemical splash, flash fire and electric arc flash. Tychem® 6000 FR offers at least 30 minutes of protection against more than 180 toxic industrial chemicals and may be used as a primary FR garment.



NFPA 1992



NFPA 2112



NFPA 70E Cat 2

### Chemical-resistant (CR) gloves\*



#### Tychem® PV350

Extremely durable, these 55-mil PVC gloves provide protection against chemicals, oils and greases. The cotton/jersey knit lining adds comfort and flexibility while the textured grip makes it easier to grasp wet objects.

Cat. III



2777

EN 388:2016



3111X

EN ISO 374-1:2016

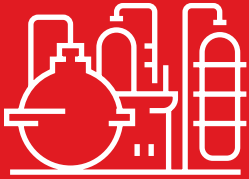
Type B



AKLMP

EN ISO 374-5:2016





# Reactor operations

## Tasks

Open and closed charging of raw materials into reaction equipment

## Hazards

Chemical exposures (powder and liquid)

Particle exposures

Flash fire

Pressurized equipment

Cut hazards requiring cut level A2 and thermal level 3 protection

For a full list of PPE solutions, visit SafeSPEC™.



### Tychem® NT470

These unlined, 15-mil nitrile gloves offer protection against a wide range of solvents, oils, hydrocarbons, greases and other chemicals. Thin and lightweight, Tychem® NT470 gloves are ergonomically designed to maximize comfort. The bisque finish grip makes working in humid environments easier.

Cat. III



2777

EN 388:2016



2001X

EN ISO 374-1:2016 Type A



JKLOPT

EN ISO 374-5:2016



VIRUS



### Tychem® NP570 CT

These 68-mil neoprene gloves, which feature an engineered yarn liner, provide protection against the dual risk of chemical exposure and cut. Tychem® NP570 CT gloves provide ANSI level A5 and EN level E cut protection, as well as first-class defense against acids, caustics, solvents, greases and oils.

Cat. III



2777

EN 388:2016



3X43E

EN ISO 374-1:2016 Type A



AJKLMT

EN ISO 374-5:2016



Cut



### Tychem® BT730

These unlined, 14-mil butyl gloves provide protection against a wide array of chemicals, including acids, ketones and alcohols. Light and thin with a “second-skin” feel, anatomical shape and rough surface, Tychem® BT730 gloves are comfortable and enable optimal grip. Impermeable for working in damp or greasy environments.

Cat. III



2777

EN 388:2016



0110X

EN ISO 374-1:2016 Type A



ABCIKLMNPST

EN ISO 374-5:2016



VIRUS



### Tychem® 2000 Tape

Tychem® 2000 Tape helps hold a sleeve over a glove, a pant leg over a boot or a closure flap closed, while providing protection against a variety of inorganic acids and bases, as well as common industrial cleaning agents, such as bleach. The tape tears easily for quick and convenient application. Repositionable once applied, the tape’s elasticity enables tight adhesion to help prevent leaks.

\*Tychem® gloves and tape should not be used around heat, open flame, sparks or in potentially flammable environments. For professional use only.

## Thermal gloves



### Superior Glove® Dexterity® SKG/PXNE

Made with a blend of Kevlar® and Protex® yarns, these winter-lined arc flash gloves provide excellent heat and cut resistance. Neoprene palm coating features great FR properties and good oil resistance. These gloves provide 25 cal/cm² ATPV protection.



Cut



Heat



Arc flash level

EN 388



2X43E

EN 407



312XXX



### Ironclad Heatworx® Heavy Duty HW6X

These heavy-duty gloves have a full Kevlar® shell for extra heat protection and improved cut resistance combined with a Kovenex® palm liner and silicone-laminated Kevlar® blend finger sidewalls for extreme heat protection in critical areas.

Cat. II



EN 388:2016 +A1:2018



4143B



Cut



Heat



# Confined space entry

## Tasks

Entering tanks, vessels or pits that may contain hazardous atmospheres to perform work

## Hazards

Chemical exposures

Particle exposures

Flash fire

For a full list of PPE solutions, visit SafeSPEC™.



## Available PPE options

### Flame-resistant (FR) garments



#### Nomex® Comfort

Nomex® Comfort is a lightweight, quick-drying innovative fabric that delivers extreme heat and flame protection, maximum comfort and excellent durability. Garments are available in men’s and women’s styles and sizes.



**NOTE:** Certifications listed here are for Nomex® Comfort fabric; consult with garment manufacturer for garment certifications.



#### Nomex® Essential

A highly durable protective solution that helps minimize break-open and offers excellent heat and flame protection.



**NOTE:** Certifications listed here are for Nomex® Essential fabric; consult with garment manufacturer for garment certifications.



#### FR face mask made with Nomex®

Made with Nomex® Comfort fabric, this FR face mask from PGI Safety may help meet guidance from the U.S. CDC for wearing masks in environments that require FR protection while social distancing. This FR face mask offers exceptional breathability and durability with inherent, built-in flame resistance that cannot be washed out or worn away.

\*FR face masks are for use while social distancing and may be used for other tasks identified by a site hazard risk assessment.

### Particle garments



#### Tyvek® 400

Tyvek® 400 garments are composed of flashspun high-density polyethylene, which creates a unique, nonwoven material. Tyvek® 400 fabric offers an inherent barrier against particles (down to 1.0 micron in size). Protection is built into the fabric itself; there are no films or laminates to abrade or wear away.



#### Tyvek® 800

Tyvek® 800 garments combine resistance to low-concentration, water-based inorganic chemicals with the strength and durability of Tyvek®. The coveralls provide an effective barrier against many water-based inorganic chemicals in low concentration and particles (down to 1.0 micron in size).



Type 3-B



Type 4-B



Type 5-B



Type 6-B





# Confined space entry

## Tasks

Entering tanks, vessels or pits that may contain hazardous atmospheres and other hazards to perform work

## Hazards

Chemical exposures

Particle exposures

Flash fire

For a full list of PPE solutions, visit SafeSPEC™.



## Non-FR/chemical-protective garments



### Tychem® 2000

Tychem® 2000 is a lightweight and durable fabric that uses the strength of Tyvek® fabric and polyethylene coating. Tychem® 2000 offers permeation barrier protection for at least 30 minutes against more than 40 chemical challenges.



### Tychem® 4000

Tychem® 4000 offers effective protection against a range of chemical environments, offering at least 30 minutes of protection against more than 120 chemical challenges.



### Tychem® 6000

Tychem® 6000 garments are made of a proprietary barrier film laminated to a Tyvek® substrate. The fabric offers at least 30 minutes of protection against more than 180 chemical challenges. Tychem® 6000 garments are strong, durable and lightweight.



### Tychem® 10000

Tychem® 10000, an extremely durable fabric that is puncture- and tear-resistant, offers at least 30 minutes of barrier protection against 322 chemical challenges with no observed breakthrough. Tychem® 10000 is specifically designed for protection against toxic, corrosive gases, liquids and solid chemicals.

## Chemical-resistant/flame-resistant (CR/FR) garments



### Tychem® 2000 SFR

Tychem® 2000 SFR offers chemical and secondary flame protection in a lightweight garment. Worn over primary FR garments such as Nomex® Comfort, they won't ignite if a flash fire occurs and won't contribute to additional burn injury.



### Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that offer triple hazard protection against liquid chemical splash, flash fire and electric arc flash. Tychem® 6000 FR offers at least 30 minutes of protection against more than 180 toxic industrial chemicals and may be used as a primary FR garment.



# Confined space entry

## Tasks

Entering tanks, vessels or pits that may contain hazardous atmospheres and other hazards to perform work

## Hazards

Chemical exposures

Particle exposures

Flash fire

For a full list of PPE solutions, visit SafeSPEC™.



## Chemical-resistant (CR) gloves\*



### Tychem® PV350

Extremely durable, these 55-mil PVC gloves provide protection against chemicals, oils and greases. The cotton/jersey knit lining adds comfort and flexibility while the textured grip makes it easier to grasp wet objects.

Cat. III



2777

EN 388:2016



3111X

EN ISO 374-1:2016



AKLMP

EN ISO 374-5:2016



### Tychem® NT470

These unlined, 15-mil nitrile gloves offer protection against a wide range of solvents, oils, hydrocarbons, greases and other chemicals. Thin and lightweight, Tychem® NT470 gloves are ergonomically designed to maximize comfort. The bisque finish grip makes working in humid environments easier.

Cat. III



2777

EN 388:2016



2001X

EN ISO 374-1:2016



JKLOPT

EN ISO 374-5:2016



VIRUS



### Tychem® NP530

Tychem® NP530 gloves are resistant to a range of chemicals. Neoprene over natural rubber construction enhances dexterity and reduces hand fatigue. The cotton flock lining increases comfort and the embossed grip encourages runoff of fluid.

Cat. III



0321

EN 388:2016



2021X

EN ISO 374-1:2016



AKLMNT

EN ISO 374-5:2016



### Tychem® BT730

These unlined, 14-mil butyl gloves provide protection against a wide array of chemicals, including acids, ketones and alcohols. Light and thin with a “second-skin” feel, anatomical shape and rough surface, Tychem® BT730 gloves are comfortable and enable optimal grip. Impermeable for working in damp or greasy environments.

Cat. III



2777

EN 388:2016



0110X

EN ISO 374-1:2016



ABCIKLMNPST

EN ISO 374-5:2016



VIRUS



### Tychem® 2000 Tape

Tychem® 2000 Tape helps hold a sleeve over a glove, a pant leg over a boot or a closure flap closed, while providing protection against a variety of inorganic acids and bases, as well as common industrial cleaning agents, such as bleach. The tape tears easily for quick and convenient application. Repositionable once applied, the tape's elasticity enables tight adhesion to help prevent leaks.

\*Tychem® gloves and tape should not be used around heat, open flame, sparks or in potentially flammable environments. For professional use only.



# Insulation work— asbestos or non-asbestos

## Tasks

Handle thermal system insulation, metal bands and jacketing

## Hazards

- Sharp edges
- Hazardous particles
- Thermal hazards

Cut hazards requiring cut level A6 or A7 protection and/or thermal level 4 protection

For a full list of PPE solutions, visit [SafeSPEC™](#).  
 DuPont™ SafeSPEC™

### Available PPE options

#### Particle garments



##### Tyvek® 400

Tyvek® 400 garments are composed of flashspun high-density polyethylene, which creates a unique, nonwoven material. Tyvek® 400 fabric offers an inherent barrier against particles (down to 1.0 micron in size). Protection is built into the fabric itself; there are no films or laminates to abrade or wear away.



##### Tyvek® 800

Tyvek® 800 garments combine resistance to low-concentration, water-based inorganic chemicals with the strength and durability of Tyvek®. The coveralls provide an effective barrier against many water-based inorganic chemicals in low concentration and particles (down to 1.0 micron in size).



Type 3-B



Type 4-B



Type 5-B



Type 6-B

#### Chemical-resistant/flame-resistant (CR/FR) garments



##### Tychem® 2000 SFR

Tychem® 2000 SFR offers chemical and secondary flame protection in a lightweight garment. Worn over primary FR garments such as Nomex® Comfort, they won't ignite if a flash fire occurs and won't contribute to additional burn injury.



##### Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that offer triple hazard protection against liquid chemical splash, flash fire and electric arc flash. Tychem® 6000 FR offers at least 30 minutes of protection against more than 180 toxic industrial chemicals and may be used as a primary FR garment.



NFPA 1992



NFPA 2112



NFPA 70E™ Cat 2

#### Cut-resistant gloves



##### PIP G-Tek® KEV™ 09-K1600

The seamless knit construction of these PIP G-Tek® KEV™ gloves provides comfort without sacrificing dexterity. The Kevlar® fiber shell provides high tensile strength, excellent cut resistance and it won't melt, ignite or conduct electricity. The nitrile foam grip is compatible with light oils and provides excellent abrasion resistance.



ANSI A7 Cut



EN 388:2003 4543



# Insulation work— asbestos or non-asbestos

## Tasks

Handle thermal system insulation, metal bands and jacketing

## Hazards

- Sharp edges
- Hazardous particles
- Thermal hazards

Cut hazards requiring cut level A6 or A7 protection and/or thermal level 4 protection

For a full list of PPE solutions, visit [SafeSPEC™](#).  
 DuPont™ SafeSPEC™



##### Ansell HyFlex® 11-542

These lightweight Ansell HyFlex® gloves provide high levels of protection against lacerations and are comfortable to wear. Exclusive dirt masking design and high abrasion resistance make these gloves ideal for long-term use.



0493

##### EN 388



4X32F

##### EN 407



X1XXXX

##### EN 420:2003 +A1:2009



Cat III



Abrasion



Cut

#### Cut-resistant sleeves



##### MCR Safety Cut Pro® 9318K7T

This Cut Pro® sleeve with Hero™ Technology offers high levels of protection and comfort for workers in tough environments. Made with blended Kevlar®, stainless steel and nylon fibers, this 18-inch sleeve with thumb slot provides excellent cut and abrasion resistance.

##### EN 388



Tear 3



Heat



Cut



Contact Heat



Abrasion



##### PIP Kut Gard® 10-KVSYBH

This Kut Gard® single-ply Kevlar® armor blended sleeve protects arms without sacrificing comfort or dexterity. Kevlar® provides excellent cut protection, heat resistance and inherent flame resistance.



Cut



ASTM F2992-15

#### Thermal gloves



##### Superior Glove® Dexterity® SKG/PXNE

Made with a blend of Kevlar® and Protex® yarns, these winter-lined arc flash gloves provide excellent heat and cut resistance. Neoprene palm coating features great FR properties and good oil resistance. These gloves provide 25 cal/cm² ATPV protection.



Cut



Heat



Arc flash level 3

##### EN 388



2X43E

##### EN 407



312XXX



##### Ironclad Heatworx® Heavy Duty HW6X

These heavy-duty gloves have a full Kevlar® shell for extra heat protection and improved cut resistance combined with a Kovenex® palm liner and silicone-laminated Kevlar® blend finger sidewalls for extreme heat protection in critical areas.

##### Cat. II



##### EN 388:2016 +A1:2018



4143B



Cut



Heat





# Line breaking/ vessel opening

## Tasks

- Shut down process
- Determine hazards
- Lockout/tagout (LOTO)
- Monitor hazardous atmospheres
- Perform work

## Hazards

- Chemical exposures
- Particle exposures
- Flash fire
- Pressurized equipment
- Cut hazards requiring cut level A2 and thermal level 4 protection

For a full list of PPE solutions, visit [SafeSPEC™](#).

 DuPont...SafeSPEC™

### Available PPE options

#### Flame-resistant (FR) garments



##### Nomex® Comfort

Nomex® Comfort is a lightweight, quick-drying innovative fabric that delivers extreme heat and flame protection, maximum comfort and excellent durability. Garments are available in men's and women's styles and sizes.



**NOTE:** Certifications listed here are for Nomex® Comfort fabric; consult with garment manufacturer for garment certifications.



##### Nomex® Essential

A highly durable protective solution that helps minimize break-open and offers excellent heat and flame protection.



**NOTE:** Certifications listed here are for Nomex® Essential fabric; consult with garment manufacturer for garment certifications.



##### FR face mask made with Nomex®

Made with Nomex® Comfort fabric, this FR face mask from PGI Safety may help meet guidance from the U.S. CDC for wearing masks in environments that require FR protection while social distancing. This FR face mask offers exceptional breathability and durability with inherent, built-in flame resistance that cannot be washed out or worn away.

**\*FR face masks are for use while social distancing and may be used for other tasks identified by a site hazard risk assessment.**

#### Particle garments



##### Tyvek® 400

Tyvek® 400 garments are composed of flashspun high-density polyethylene, which creates a unique, nonwoven material. Tyvek® 400 fabric offers an inherent barrier against particles (down to 1.0 micron in size). Protection is built into the fabric itself; there are no films or laminates to abrade or wear away.



##### Tyvek® 800

Tyvek® 800 garments combine resistance to low-concentration, water-based inorganic chemicals with the strength and durability of Tyvek®. The coveralls provide an effective barrier against many water-based inorganic chemicals in low concentration and particles (down to 1.0 micron in size).



Type 3-B



Type 4-B



Type 5-B



Type 6-B

#### Non-FR/chemical-protective garments



##### Tychem® 2000

Tychem® 2000 is a lightweight and durable fabric that uses the strength of Tyvek® fabric and polyethylene coating. Tychem® 2000 offers permeation barrier protection for at least 30 minutes against more than 40 chemical challenges.



# Line breaking/ vessel opening

## Tasks

- Shut down process
- Determine hazards
- Lockout/tagout (LOTO)
- Monitor hazardous atmospheres
- Perform work

## Hazards

- Chemical exposures
- Particle exposures
- Flash fire
- Pressurized equipment
- Cut hazards requiring cut level A2 and thermal level 4 protection

For a full list of PPE solutions, visit [SafeSPEC™](#).

 DuPont...SafeSPEC™



##### Tychem® 4000

Tychem® 4000 offers effective protection against a range of chemical environments, offering at least 30 minutes of protection against more than 120 chemical challenges.



##### Tychem® 6000

Tychem® 6000 garments are made of a proprietary barrier film laminated to a Tyvek® substrate. The fabric offers at least 30 minutes of protection against more than 180 chemical challenges. Tychem® 6000 garments are strong, durable and lightweight.



##### Tychem® 10000

Tychem® 10000, an extremely durable fabric that is puncture- and tear-resistant, offers at least 30 minutes of barrier protection against 322 chemical challenges with no observed breakthrough. Tychem® 10000 is specifically designed for protection against toxic, corrosive gases, liquids and solid chemicals.

#### Chemical-resistant/flame-resistant (CR/FR) garments



##### Tychem® 2000 SFR

Tychem® 2000 SFR offers chemical and secondary flame protection in a lightweight garment. Worn over primary FR garments such as Nomex® Comfort, they won't ignite if a flash fire occurs and won't contribute to additional burn injury.



##### Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that offer triple hazard protection against liquid chemical splash, flash fire and electric arc flash. Tychem® 6000 FR offers at least 30 minutes of protection against more than 180 toxic industrial chemicals and may be used as a primary FR garment.



Cat 2

#### Chemical-resistant (CR) gloves\*



##### Tychem® PV350

Extremely durable, these 55-mil PVC gloves provide protection against chemicals, oils and greases. The cotton/jersey knit lining adds comfort and flexibility while the textured grip makes it easier to grasp wet objects.

Cat. III



2777

EN 388:2016



3111X

EN ISO 374-1:2016

Type B



AKLMP

EN ISO 374-5:2016





# Line breaking/ vessel opening

## Tasks

- Shut down process
- Determine hazards
- Lockout/tagout (LOTO)
- Monitor hazardous atmospheres
- Perform work

## Hazards

- Chemical exposures
- Particle exposures
- Flash fire
- Pressurized equipment
- Cut hazards requiring cut level A2 and thermal level 4 protection

For a full list of PPE solutions, visit [SafeSPEC™](#).

 DuPont...SafeSPEC™



**Tychem® NT470**

These unlined, 15-mil nitrile gloves offer protection against a wide range of solvents, oils, hydrocarbons, greases and other chemicals. Thin and lightweight, Tychem® NT470 gloves are ergonomically designed to maximize comfort. The bisque finish grip makes working in humid environments easier.

Cat. III

  
2777

EN 388:2016

  
2001X

EN ISO 374-1:2016  
Type A

  
JKLOPT

EN ISO 374-5:2016

  
VIRUS



**Tychem® NP570 CT**

These 68-mil neoprene gloves, which feature an engineered yarn liner, provide protection against the dual risk of chemical exposure and cut. Tychem® NP570 CT gloves provide ANSI level A5 and EN level E cut protection, as well as first-class defense against acids, caustics, solvents, greases and oils.

Cat. III

  
2777

EN 388:2016

  
3X43E

EN ISO 374-1:2016  
Type A

  
AJKLMT

EN ISO 374-5:2016

  
Cut

ANSI  
A5  
Cut



**Tychem® BT730**

These unlined, 14-mil butyl gloves provide protection against a wide array of chemicals, including acids, ketones and alcohols. Light and thin with a “second-skin” feel, anatomical shape and rough surface, Tychem® BT730 gloves are comfortable and enable optimal grip. Impermeable for working in damp or greasy environments.

Cat. III

  
2777

EN 388:2016

  
0110X

EN ISO 374-1:2016  
Type A

  
ABCIKLMNPST

EN ISO 374-5:2016

  
VIRUS



**Tychem® 2000 Tape**

Tychem® 2000 Tape helps hold a sleeve over a glove, a pant leg over a boot or a closure flap closed, while providing protection against a variety of inorganic acids and bases, as well as common industrial cleaning agents, such as bleach. The tape tears easily for quick and convenient application. Repositionable once applied, the tape’s elasticity enables tight adhesion to help prevent leaks.

\*Tychem® gloves and tape should not be used around heat, open flame, sparks or in potentially flammable environments. For professional use only.

## Thermal gloves



**Superior Glove® Dexterity® SKG/PXNE**

Made with a blend of Kevlar® and Protex® yarns, these winter-lined arc flash gloves provide excellent heat and cut resistance. Neoprene palm coating features great FR properties and good oil resistance. These gloves provide 25 cal/cm² ATPV protection.

ANSI  
A5  
Cut

ANSI  
4  
Heat

  
Arc flash level

EN 388

  
2X43E

EN 407

  
312XXX



**Ironclad Heatworx® Heavy Duty HW6X**

These heavy-duty gloves have a full Kevlar® shell for extra heat protection and improved cut resistance combined with a Kovenex® palm liner and silicone-laminated Kevlar® blend finger sidewalls for extreme heat protection in critical areas.

Cat. II

  
4143B

EN 388:2016  
+A1:2018

  
Cut

ANSI  
A2  
Cut

ANSI  
5  
Heat



# Maintenance— electrical work

## Tasks

- Performing electrical work

## Hazards

- Arc flash

For a full list of PPE solutions, visit [SafeSPEC™](#).

 DuPont...SafeSPEC™

## Available PPE options

### Flame-resistant (FR) garments



**Nomex® Essential Arc**

Nomex® Essential Arc is engineered to provide >8 cal/cm² ATPV protection combined with enhanced durability against abrasion. Nomex® is resistant to many chemicals and oil stains are washed out easier than with standard cotton garments.

ASTM  
F1506

NFPA  
2112

CGSB  
155.20

NFPA  
70E®  
Cat 2

**NOTE:** Certifications listed here are for Nomex® Essential Arc fabric; consult with garment manufacturer for garment certifications.



**Evolv™ built with Nomex®**

This lightweight Nomex® blended fabric is CAT 2 arc-rated/flame-resistant (AR/FR) and NFPA 2112 compliant, providing workers with comfortable protection. Garments are available in men’s and women’s styles and sizes.

NFPA  
2112

NFPA  
70E®  
Cat 2

**NOTE:** Please consult with fabric and garment manufacturers for certifications.



**Nomex® Essential Arc High-Arc Suit**

These multi-layer garments built with Nomex® are used for protection against high incident energy hazard levels and meet U.S. Occupational Safety and Health Administration (OSHA) 1910.269 and NFPA 70E® standards.

**NOTE:** For additional high-arc rated solutions, consult *Use of layered solutions to address COVID-19 contamination concerns with high-arc suits* to see currently available Nomex® layering systems.

### Chemical-resistant/flame-resistant (CR/FR) garments



**Tychem® 6000 FR**

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that offer triple hazard protection against liquid chemical splash, flash fire and electric arc flash. Tychem® 6000 FR offers at least 30 minutes of protection against more than 180 toxic industrial chemicals and may be used as a primary FR garment.

NFPA  
1992

NFPA  
2112

NFPA  
70E®  
Cat 2





# Maintenance— electrical work

## Tasks

Performing electrical work

## Hazards

Arc flash

For a full list of PPE solutions,  
visit [SafeSPEC™](#).



### Arc-rated, cut-resistant gloves



#### Superior Glove® Dexterity® S18KGDNE

Made with Kevlar® fiber, these Dexterity® 18-gauge FR arc flash gloves provide 25 cal/cm² ATPV protection and dual cut protection—the glove body has an ANSI level A3 cut rating and the cuff has a level A6 cut rating. A neoprene palm coating enables excellent grip—both wet and dry. Electrostatic dissipating (ESD) carbon filament imparts anti-static properties.



#### SHOWA 240

Lightweight and comfortable, 13-gauge glove lined with Kevlar® with sponge neoprene palm coating. Flame-resistant Kevlar® enables protection against arc flash up to level 2. Flat dipped sponge neoprene coating provides enhanced grip and the anatomical design helps prevent hand fatigue.

EN 388:2016  
+A1:2018



EN 407:2011



# Preventive maintenance

## Tasks

Unit shutdown or start-up

Regularly scheduled  
preventive maintenance (PM)

Troubleshooting

## Hazards

Flash fire

Chemical exposures

Struck-by hazards

Cut hazards requiring either  
cut level A2 or A3 protection  
OR cut level A2 protection with  
thermal level 4 protection

For a full list of PPE solutions,  
visit [SafeSPEC™](#).



### Available PPE options

#### Flame-resistant (FR) garments



##### Nomex® Comfort

Nomex® Comfort is a lightweight, quick-drying innovative fabric that delivers extreme heat and flame protection, maximum comfort and excellent durability. Garments are available in men's and women's styles and sizes.



**NOTE:** Certifications listed here are for Nomex® Comfort fabric; consult with garment manufacturer for garment certifications.



##### Nomex® Essential

A highly durable protective solution that helps minimize break-open and offers excellent heat and flame protection.



**NOTE:** Certifications listed here are for Nomex® Essential fabric; consult with garment manufacturer for garment certifications.



##### FR face mask made with Nomex®

Made with Nomex® Comfort fabric, this FR face mask from PGI Safety may help meet guidance from the U.S. CDC for wearing masks in environments that require FR protection while social distancing. This FR face mask offers exceptional breathability and durability with inherent, built-in flame resistance that cannot be washed out or worn away.

**\*FR face masks are for use while social distancing and may be used for other tasks identified by a site hazard risk assessment.**

#### Non-FR/chemical-protective garments



##### Tychem® 2000

Tychem® 2000 is a lightweight and durable fabric that uses the strength of Tyvek® fabric and polyethylene coating. Tychem® 2000 offers permeation barrier protection for at least 30 minutes against more than 40 chemical challenges.



##### Tychem® 4000

Tychem® 4000 offers effective protection against a range of chemical environments, offering at least 30 minutes of protection against more than 120 chemical challenges.



##### Tychem® 6000

Tychem® 6000 garments are made of a proprietary barrier film laminated to a Tyvek® substrate. The fabric offers at least 30 minutes of protection against more than 180 chemical challenges. Tychem® 6000 garments are strong, durable and lightweight.



##### Tychem® 10000

Tychem® 10000, an extremely durable fabric that is puncture- and tear-resistant, offers at least 30 minutes of barrier protection against 322 chemical challenges with no observed breakthrough. Tychem® 10000 is specifically designed for protection against toxic, corrosive gases, liquids and solid chemicals.



# Preventive maintenance

## Tasks

Unit shutdown or start-up

Regularly scheduled preventive maintenance (PM)

Troubleshooting

## Hazards

Flash fire

Chemical exposures

Struck-by hazards

Cut hazards requiring either cut level A2 or A3 protection  
OR cut level A2 protection with thermal level 4 protection

For a full list of PPE solutions, visit SafeSPEC™.



## Chemical-resistant/flame-resistant (CR/FR) garments



### Tychem® 2000 SFR

Tychem® 2000 SFR offers chemical and secondary flame protection in a lightweight garment. Worn over primary FR garments such as Nomex® Comfort, they won't ignite if a flash fire occurs and won't contribute to additional burn injury.



### Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that offer triple hazard protection against liquid chemical splash, flash fire and electric arc flash. Tychem® 6000 FR offers at least 30 minutes of protection against more than 180 toxic industrial chemicals and may be used as a primary FR garment.



## Chemical-resistant (CR) gloves\*



### Tychem® PV350

Extremely durable, these 55-mil PVC gloves provide protection against chemicals, oils and greases. The cotton/jersey knit lining adds comfort and flexibility while the textured grip makes it easier to grasp wet objects.



### Tychem® NT470

These unlined, 15-mil nitrile gloves offer protection against a wide range of solvents, oils, hydrocarbons, greases and other chemicals. Thin and lightweight, Tychem® NT470 gloves are ergonomically designed to maximize comfort. The bisque finish grip makes working in humid environments easier.



### Tychem® NP570 CT

These 68-mil neoprene gloves, which feature an engineered yarn liner, provide protection against the dual risk of chemical exposure and cut. Tychem® NP570 CT gloves provide ANSI level A5 and EN level E cut protection, as well as first-class defense against acids, caustics, solvents, greases and oils.



# Preventive maintenance

## Tasks

Unit shutdown or start-up

Regularly scheduled preventive maintenance (PM)

Troubleshooting

## Hazards

Flash fire

Chemical exposures

Struck-by hazards

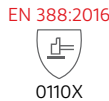
Cut hazards requiring either cut level A2 or A3 protection  
OR cut level A2 protection with thermal level 4 protection

For a full list of PPE solutions, visit SafeSPEC™.



### Tychem® BT730

These unlined, 14-mil butyl gloves provide protection against a wide array of chemicals, including acids, ketones and alcohols. Light and thin with a “second-skin” feel, anatomical shape and rough surface, Tychem® BT730 gloves are comfortable and enable optimal grip. Impermeable for working in damp or greasy environments.



### Tychem® 2000 Tape

Tychem® 2000 Tape helps hold a sleeve over a glove, a pant leg over a boot or a closure flap closed, while providing protection against a variety of inorganic acids and bases, as well as common industrial cleaning agents, such as bleach. The tape tears easily for quick and convenient application. Repositionable once applied, the tape's elasticity enables tight adhesion to help prevent leaks.

\*Tychem® gloves and tape should not be used around heat, open flame, sparks or in potentially flammable environments. For professional use only.

## Cut-resistant gloves



### Superior Glove® Endura® 375GKGVB

These goatskin Endura® driver gloves lined with Kevlar® offer excellent cut resistance and feature impact-resistant back-of-hand protection and gel pad palm inserts for vibration dampening. These gloves provide protection without impeding flexibility or dexterity and are treated with Oilbloc™ for outstanding oil and water resistance.



### Ironclad Kong® Pro A6 SDX2P

The Kong® Pro A6 glove features a high-strength palm fabric and a Kevlar® liner for exceptional cut protection, high durability and maximum dexterity. Full TPR coverage delivers up to 80% reduction in impact forces and patented design provides complete fingertip pinch protection.



## Thermal gloves



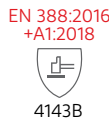
### Superior Glove® Dexterity® SKG/PXNE

Made with a blend of Kevlar® and Protex® yarns, these winter-lined arc flash gloves provide excellent heat and cut resistance. Neoprene palm coating features great FR properties and good oil resistance. These gloves provide 25 cal/cm² ATPV protection.



### Ironclad Heatworx® Heavy Duty HW6X

These heavy-duty gloves have a full Kevlar® shell for extra heat protection and improved cut resistance combined with a Kovenex® palm liner and silicone-laminated Kevlar® blend finger sidewalls for extreme heat protection in critical areas.







# Emergency response— fire, spill or release

## Tasks

Stop hazardous material release  
and neutralize/clean up

## Hazards

Chemical exposures

Particle exposures

Flash fire

For a full list of PPE solutions,  
visit [SafeSPEC™](#).



## Available PPE options

### Flame-resistant (FR) garments



#### Nomex® Comfort

Nomex® Comfort is a lightweight, quick-drying innovative fabric that delivers extreme heat and flame protection, maximum comfort and excellent durability. Garments are available in men's and women's styles and sizes.



**NOTE:** Certifications listed here are for Nomex® Comfort fabric; consult with garment manufacturer for garment certifications.



#### Nomex® Essential

A highly durable protective solution that helps minimize break-open and offers excellent heat and flame protection.



**NOTE:** Certifications listed here are for Nomex® Essential fabric; consult with garment manufacturer for garment certifications.



#### FR face mask made with Nomex®

Made with Nomex® Comfort fabric, this FR face mask from PGI Safety may help meet guidance from the U.S. CDC for wearing masks in environments that require FR protection while social distancing. This FR face mask offers exceptional breathability and durability with inherent, built-in flame resistance that cannot be washed out or worn away.

**\*FR face masks are for use while social distancing and may be used for other tasks identified by a site hazard risk assessment.**



#### Hoods made with Nomex® Nano Flex

Thin, lightweight and durable, hoods made with Nomex® Nano Flex help prevent potentially harmful particulates from being absorbed through the skin on the neckline and upper jaw, which are areas that historically are known to be the most vulnerable and least protected. When added to a firefighter hood composite structure, hoods made with Nomex® Nano Flex result in up to a 4X increase in particle barrier efficiency.

This game-changing barrier protection is achieved without compromising thermal resistance, breathability, comfort or situational awareness.

**DuPont is proud to collaborate with these manufacturers of hoods made with Nomex® Nano Flex:**

Fire-Dex

Veridian

PGI

Viking



# Emergency response— fire, spill or release

## Tasks

Stop hazardous material release  
and neutralize/clean up

## Hazards

Chemical exposures

Particle exposures

Flash fire

For a full list of PPE solutions,  
visit [SafeSPEC™](#).



#### Turnout gear made with Nomex®, Nomex® Nano and Kevlar®

Nomex®, Nomex® Nano and Kevlar® fibers can be found in each layer of most firefighter turnout gear. Together, these innovative fibers help provide proven protection, durability and comfort from the inside out.

Nomex®, Nomex® Nano and Kevlar® fibers help manufacturers create fire resistant liners, outer shells and accessories that not only stand up to the thermal hazards that firefighters may face, but also help them to get the job done without getting in the way of mobility.

**DuPont is proud to collaborate with these manufacturers of turnout gear made with Nomex®, Nomex® Nano and Kevlar®:**

Fire-Dex

Innotex

Quaker Safety

Globe

Lakeland

Veridian

Honeywell

Lion

### Non-FR/chemical-protective garments



#### Tychem® 10000

Tychem® 10000, an extremely durable fabric that is puncture- and tear-resistant, offers at least 30 minutes of barrier protection against 322 chemical challenges with no observed breakthrough. Tychem® 10000 is specifically designed for protection against toxic, corrosive gases, liquids and solid chemicals.



#### Tychem® 6000

Tychem® 6000 garments are made of a proprietary barrier film laminated to a Tyvek® substrate. The fabric offers at least 30 minutes of protection against more than 180 chemical challenges. Tychem® 6000 garments are strong, durable and lightweight.



#### Tychem® 4000

Tychem® 4000 offers effective protection against a range of chemical environments, offering at least 30 minutes of protection against more than 120 chemical challenges.

### Chemical-resistant/flame-resistant (CR/FR) garments



#### Tychem® 10000 FR

“Single skin” fully encapsulated Level A garment offers broad chemical holdout. This garment offers 30 minutes of protection against more than 290 chemicals. Tychem® 10000 FR is certified to NFPA 1991 with chemical flash fire protection option and liquefied gas protection option requirements of NFPA 1991.



#### Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that offer triple hazard protection against liquid chemical splash, flash fire and electric arc flash. Tychem® 6000 FR offers at least 30 minutes of protection against more than 180 toxic industrial chemicals and may be used as a primary FR garment.



Cat 2





# Emergency response— fire, spill or release

## Tasks

Stop hazardous material release  
and neutralize/clean up

## Hazards

Chemical exposures

Particle exposures

Flash fire

For a full list of PPE solutions,  
visit [SafeSPEC™](#).



### Tychem® 2000 SFR

Tychem® 2000 SFR offers chemical and secondary flame protection in a lightweight garment. Worn over primary FR garments such as Nomex® Comfort, they won't ignite if a flash fire occurs and won't contribute to additional burn injury.

### Chemical-resistant (CR) gloves\*



#### Tychem® PV350

Extremely durable, these 55-mil PVC gloves provide protection against chemicals, oils and greases. The cotton/jersey knit lining adds comfort and flexibility while the textured grip makes it easier to grasp wet objects.

Cat. III	EN 388:2016	EN ISO 374-1:2016 Type B	EN ISO 374-5:2016
CE	3111X	AKLMP	BIOHAZARD
2777			



#### Tychem® NT470

These unlined, 15-mil nitrile gloves offer protection against a wide range of solvents, oils, hydrocarbons, greases and other chemicals. Thin and lightweight, Tychem® NT470 gloves are ergonomically designed to maximize comfort. The bisque finish grip makes working in humid environments easier.

Cat. III	EN 388:2016	EN ISO 374-1:2016 Type A	EN ISO 374-5:2016
CE	2001X	JKLOPT	VIRUS
2777			



#### Tychem® NP570 CT

These 68-mil neoprene gloves, which feature an engineered yarn liner, provide protection against the dual risk of chemical exposure and cut. Tychem® NP570 CT gloves provide ANSI level A5 and EN level E cut protection, as well as first-class defense against acids, caustics, solvents, greases and oils.

Cat. III	EN 388:2016	EN ISO 374-1:2016 Type A	EN ISO 374-5:2016	ANSI A5 Cut
CE	3X43E	AJKLMT	BIOHAZARD	
2777				



#### Tychem® BT730

These unlined, 14-mil butyl gloves provide protection against a wide array of chemicals, including acids, ketones and alcohols. Light and thin with a "second-skin" feel, anatomical shape and rough surface, Tychem® BT730 gloves are comfortable and enable optimal grip. Impermeable for working in damp or greasy environments.

Cat. III	EN 388:2016	EN ISO 374-1:2016 Type A	EN ISO 374-5:2016
CE	0110X	ABCIKLMPST	VIRUS
2777			



#### Tychem® 2000 Tape

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# Protection in the most extreme environments

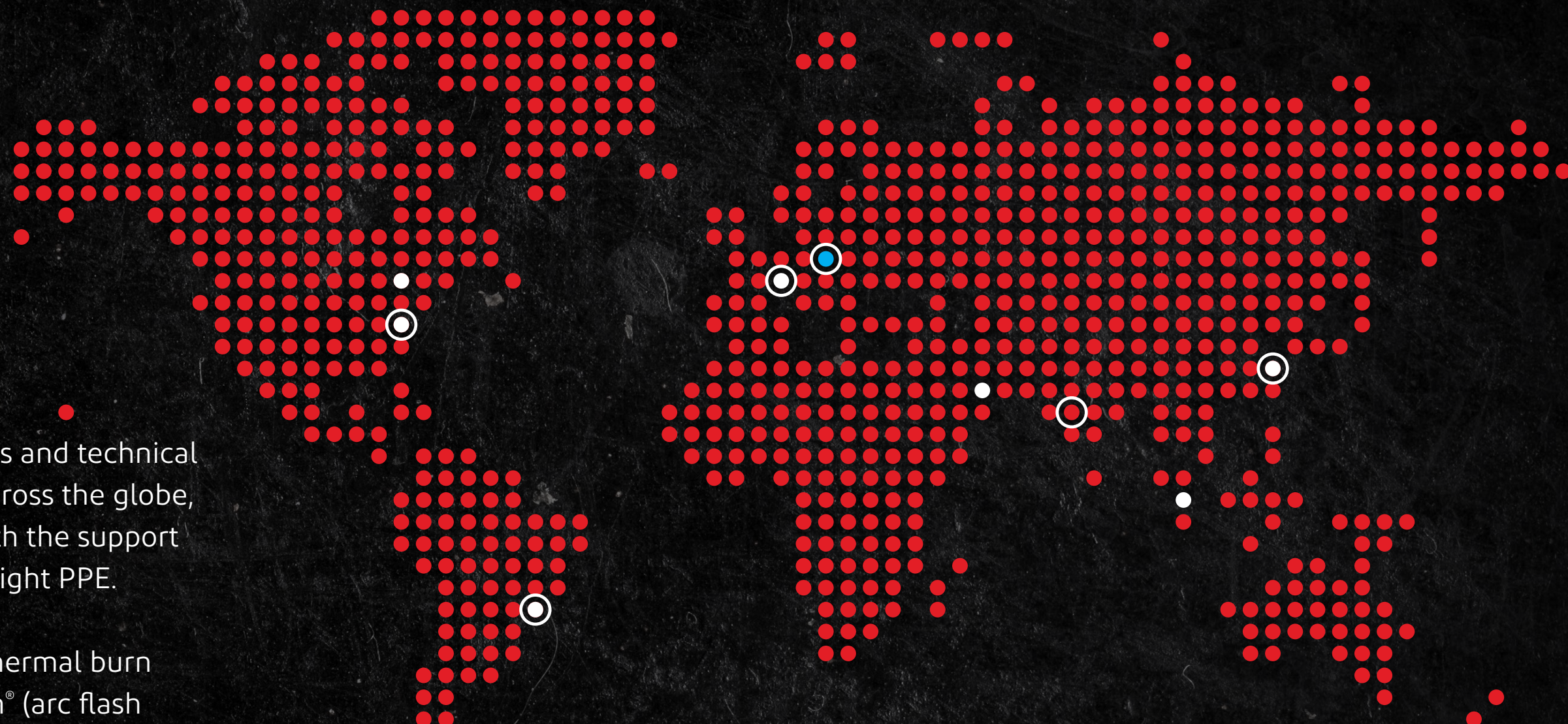


# Global reach

With operations in 96 countries and technical centers staffed with experts across the globe, we are here to provide you with the support you need when choosing the right PPE.

Our Thermo-Man® (life-sized thermal burn injury evaluation) and Arc-Man® (arc flash injury evaluation) units provide compelling demonstrations that help educate industrial workers about the durability and heat, flame and electric arc resistance that DuPont Safety PPE delivers.

○ Technical centers   ● Thermo-Man® Units   ● Arc-Man® Units



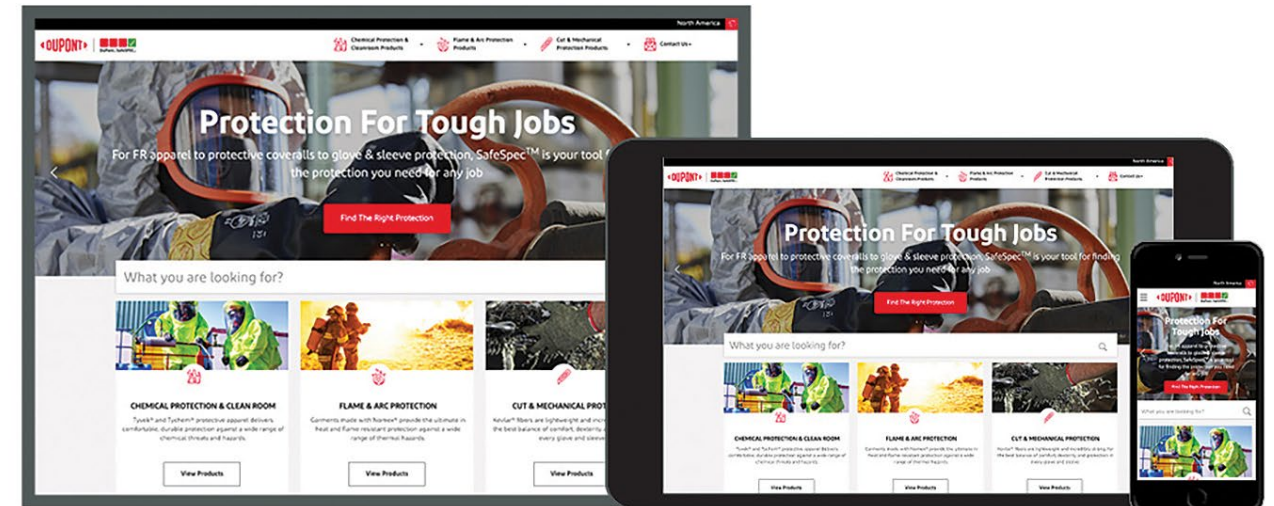


# We're here to help

DuPont™ SafeSPEC™, our powerful web-based tool, can assist you with finding the appropriate DuPont garments for chemical, controlled environment, thermal, electric arc and mechanical hazards.

SafeSPEC™ has a full permeation test results database for Tychem® fabrics & gloves and allows you to search by either hazard or industry to help you find the right protection for the job at hand.

[safespec.dupont.com](https://safespec.dupont.com)





«DUPONT»

**Kevlar** | **Nomex** | **Tyvek** | **Tychem**

**DuPont Personal Protection**

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**dpp.dupont.com**

**in. DuPont Personal Protection**

**@DuPontPPE**

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