


Oil & Gas



Personal protective solutions for oil & gas 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 the oil & gas industry around the world.

Because their safety is our business, workers in the oil & gas industry 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

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.

*For high arc-rated solutions, visit dpp.dupont.com for available Nomex® layering systems.

Are your workers really protected?

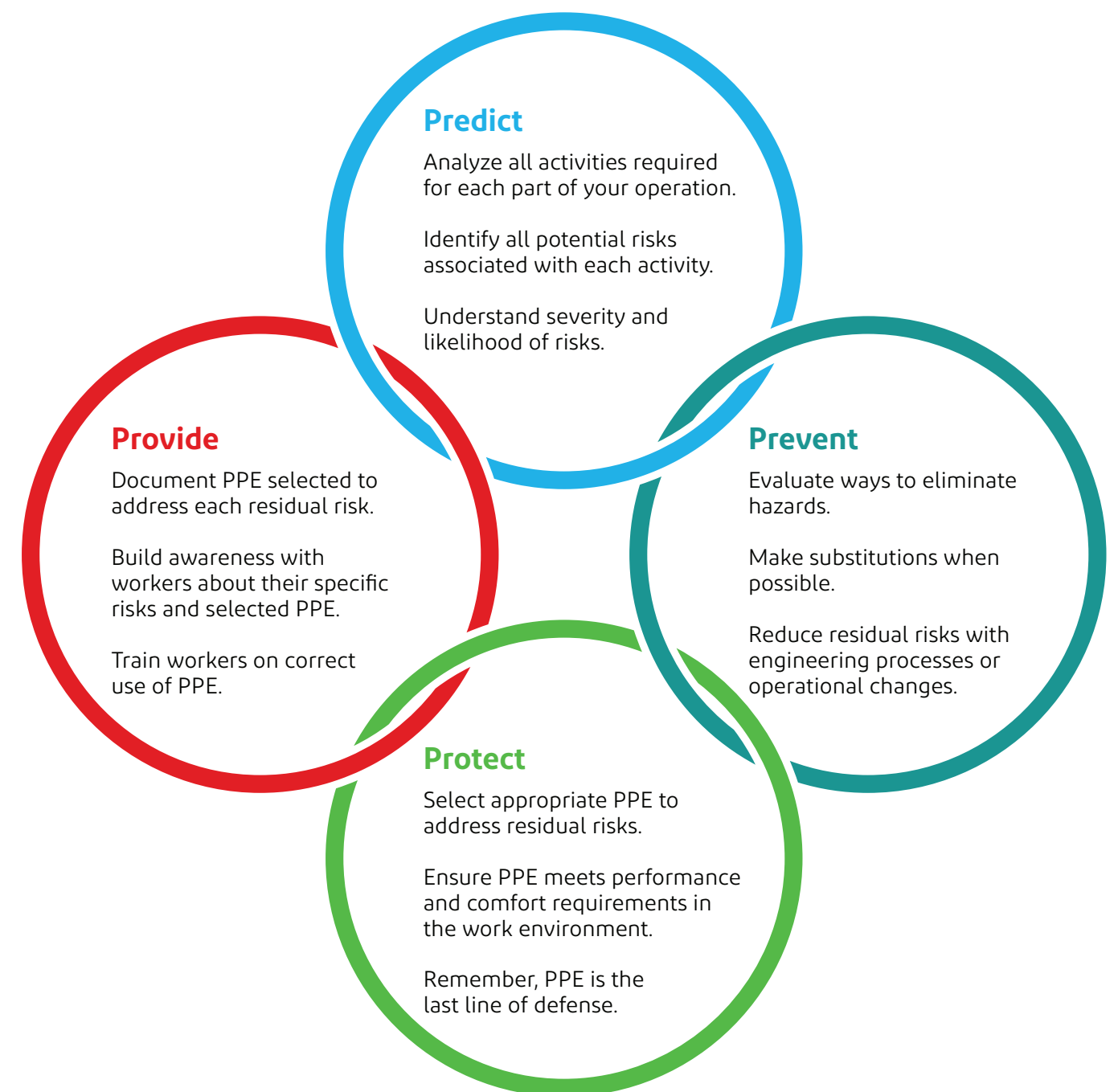


Workers in the oil & gas industry face many on-the-job hazards, including flash fire; slick, oily surfaces; sharp edges; punctures; heat contact; uncontrolled pressure release; and exposure to hazardous chemicals, dust and solvents—to name just a few.

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:



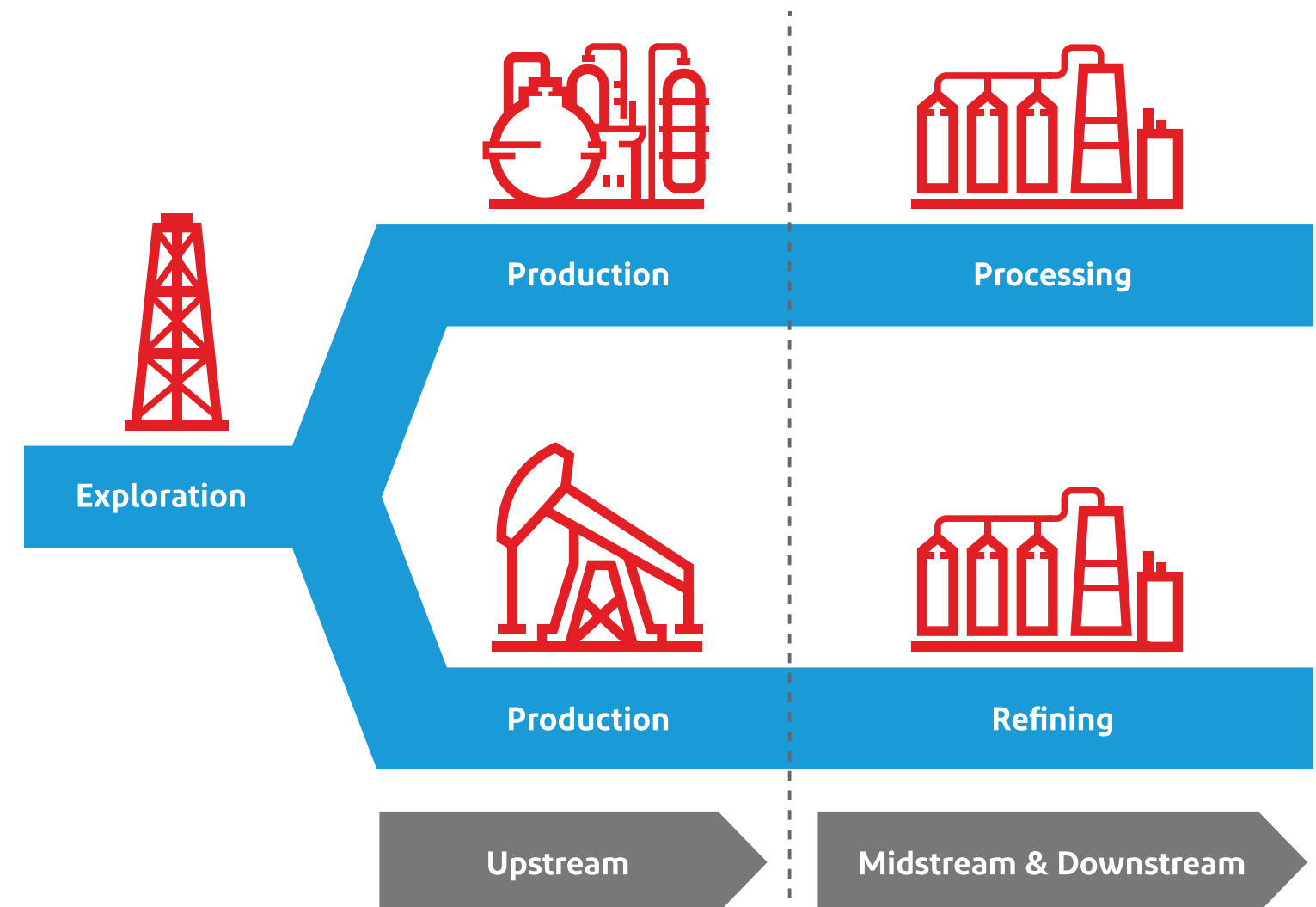
Drilling, producing and refining oil & gas involves high-risk tasks in extreme conditions

To remain competitive, oil & gas companies are embracing new technology and focusing on improving productivity and efficiency from oil rigs to petrochemical refineries.

Workers in the oil & gas industry perform many high-risk tasks that involve potential flash fires, mechanical hazards and exposure to a wide range of hazardous chemicals. In some cases, these high-risk tasks are performed under extreme weather conditions and in remote locations.

As a result, workers in the oil & gas industry face multiple workplace hazards in a very dynamic work environment and health, safety and environment (HSE) managers have many tasks to balance.

DuPont offers a broad range of PPE solutions to address these hazards, including: Nomex® garments for flash fire hazards; Tyvek® garments for protection against fine particle hazards and low level liquid splashes; Tychem® garments and tape for protection against concentrated chemicals; and gloves made with Kevlar® for cut and multi-hazard protection. DuPont experts are also available to work side by side with the HSE manager to help simplify the process of properly matching PPE to the hazards your workers face.





Protection for every task

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



Upstream

Tasks

Confined space entry

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

Hazards

Flash fire

Hazardous chemicals
(liquids or solids)

Cut hazards requiring
cut 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.

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



Tychem® 2000 SFR

Tychem® 2000 SFR provides 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 provide 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.



Requirements
of NFPA 70E®



Upstream

Tasks

Confined space entry

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

Hazards

Flash fire

Hazardous chemicals (liquids or solids)

Cut hazards requiring cut protection

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



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

Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.



Upstream

Tasks

Drilling

Boring into the earth to access either oil or gas reservoirs

Hazards

Mechanical hazards

Blowout or explosion

Flash fire

Caustic chemicals

Hydrogen sulfide or other asphyxiants

Cut hazards requiring cut 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 Arc

Nomex® Essential Arc is engineered to provide >8 cal/cm² arc thermal performance value (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.



NOTE: Certifications listed here are for Nomex® Essential Arc 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 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.*



Upstream

Tasks

Drilling

Boring into the earth to access either oil or gas reservoirs

Hazards

Mechanical hazards

Blowout or explosion

Flash fire

Caustic chemicals

Hydrogen sulfide or other asphyxiants

Cut hazards requiring cut protection

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



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.

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Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.



Upstream

Tasks

Drilling fluid (mud) management

Creating appropriate mud with additives, pumps, pressurized hoses, mud tank system, moving parts, open fluid-filled pits

Hazards

Dirt/dust

Chemical exposures

Pressurized equipment

Confined spaces

Flash fire

Cut hazards requiring cut 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.



ProShield® 20 SFR

Providing a barrier against non-hazardous aerosols and particles, ProShield® 20 SFR is a cost-effective solution designed to help protect and preserve primary protective garments. ProShield® 20 SFR garments are designed to keep primary FR garments clean from things like dirt, dust and grime, while not contributing to burn injury when exposed to a flame source. This coverall should be worn on top of an FR garment, such as a garment made of Nomex® Comfort.

Non-FR/chemical-protective garments



Tyvek® 400

An ideal balance of protection, durability, and comfort for maintenance activities

- Non-woven material that protects against particles (down to 1.0 micron)
- Delivers consistently better protection even after wear and abrasion
- Flashspun high-density polyethylene with superior durability over microporous film fabrics
- Comfort-fit design that enables a greater range of movement while performing tasks



Category III



TYPE 5



TYPE 6



EN 1149-5



EN 1073-2*
Class 1



Tyvek® 800 J

Tyvek® 800 J 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

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





Upstream

Tasks

Drilling fluid (mud) management

Creating appropriate mud with additives, pumps, pressurized hoses, mud tank system, moving parts, open fluid-filled pits

Hazards

Dirt/dust

Chemical exposures

Pressurized equipment

Confined spaces

Flash fire

Cut hazards requiring cut protection

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



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® 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/flame-resistant (CR/FR) garments



Tychem® 2000 SFR

Tychem® 2000 SFR provides 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® 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® tape should not be used around heat, open flame, sparks or in potentially flammable environments. For professional use only.*

Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.



Upstream

Tasks

Electrical work

Performing electrical work

Hazards

Arc flash

Hazards requiring gloves made with Kevlar arc rated 2 up to 4

Chemical exposures

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



Available PPE options

Flame-resistant (FR) garments



Nomex® Xtreme Arc

This lightweight Nomex® 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.



Cat 2



Nomex®: High Arc Rated 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® 2000 SFR

Tychem® 2000 SFR provides 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 provide 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.



Requirements of NFPA 70E®

Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.



Upstream

Tasks

Cleaning

Pigging

Hydroblasting

Pressure washing

Sand blasting

Hazards

Pressurized liquids

Liquids or gases

Abrasives

Cut hazards requiring cut level protection

High temperatures

Mechanical hazards

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



Upstream

Tasks

Cleaning

Pigging

Hydroblasting

Pressure washing

Sand blasting

Hazards

Pressurized liquids

Liquids or gases

Abrasives

Cut hazards requiring cut level protection

High temperatures

Mechanical hazards

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.

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



Tychem® 2000 SFR

Tychem® 2000 SFR provides 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 provide 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.



Requirements of NFPA 70E®

Non-FR/chemical-protective garments



Tyvek® 800 J

Tyvek® 800 J 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



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

Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.

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



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





Upstream

Tasks

Well/pipeline operations

- Inspections
- Operate valves
- Draining
- Venting

Hazards

- Chemical exposures
- Flash fire
- Ergonomic issues
- Cut hazards requiring cut protection

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.

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



Tychem® 2000 SFR

Tychem® 2000 SFR provides 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 provide 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.



Requirements of NFPA 70E®



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.

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Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.



Upstream

Tasks

Offshore drilling and production

All land-based tasks associated with drilling but performed in an open water environment

Hazards

- Flash fire
- Blowout
- Cut hazards requiring cut protection

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.



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.

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Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.



Upstream

Tasks

Emergency response—fire or blowout, spill or release

Stop fuel source and extinguish fire

Stop liquid or gas release and clean up or neutralize

Hazards

Thermal burns

Chemical 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.



Hoods made with Nomex® Nano Flex

Thin, lightweight and durable, hoods made with Nomex® Nano Flex 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 partner with these manufacturers of hoods made with Nomex® Nano Flex:

Fire-Dex	Veridian
PGI	Viking



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 partner with these manufacturers of turnout gear made with Nomex®, Nomex® Nano and Kevlar®:

Fire-Dex	Innotex	Quaker Safety
Globe	Lakeland	Veridian
Honeywell	Lion	Viking



Upstream

Tasks

Emergency response—fire or blowout, spill or release

Stop fuel source and extinguish fire

Stop liquid or gas release and clean up or neutralize

Hazards

Thermal burns

Chemical exposures

Flash fire

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



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



Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that provide 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.



Requirements of NFPA 70E*



Tychem® 2000 SFR

Tychem® 2000 SFR provides 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® 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.

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Midstream/ Downstream

Tasks

Laboratory

Perform analytical testing on all types of refinery inputs, outputs and intermediate streams

Hazards

Chemical exposures

Ergonomic issues

Thermal hazards

Cut hazards

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



Midstream/ Downstream

Tasks

Laboratory

Perform analytical testing on all types of refinery inputs, outputs and intermediate streams

Hazards

Chemical exposures

Ergonomic issues

Thermal hazards

Cut hazards

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.



FR face mask made with Nomex®

Made with Nomex® Comfort fabric, this FR face mask from PGI Safety may help meet guidance from the 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 provides effective protection against a range of chemical environments, offering at least 30 minutes of protection against more than 120 chemical challenges.



Tychem® 6000

Garments made with Tychem® 6000 fabric provide at least 30 minutes of protection against a broad range of chemicals. The strong, durable, and lightweight shin-length wrap-over rear closure with tie, is stitched and has over-taped seams with barrier tape for protection and strength, including abrasion and flex-cracking resistance, tensile strength, and puncture resistance.



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.

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Midstream/ Downstream

Tasks

Loading/unloading rail cars
or trucks

- Attach loading/unloading hoses
- Monitor and transfer materials

Hazards

- Flash fire
- Chemical exposures
- Thermal hazards
- Cut hazards requiring
cut and thermal protection

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.

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



Tychem® 2000 SFR

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Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that provide 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.



Requirements
of NFPA 70E®



Midstream/ Downstream

Tasks

Loading/unloading rail cars
or trucks

- Attach loading/unloading hoses
- Monitor and transfer materials

Hazards

- Flash fire
- Chemical exposures
- Thermal hazards
- Cut hazards requiring
cut and thermal protection



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.

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Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.



Midstream/ Downstream

Tasks

Operations—sampling

Collecting process and
other samples

Hazards

Flash fire

Chemical exposures

Ergonomic issues

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



Available PPE options

Flame-resistant (FR) garments



Nomex® Comfort

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

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



Tychem® 2000 SFR

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Tychem® 6000 FR

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Requirements
of NFPA 70E®



Midstream/ Downstream

Tasks

Cleaning

Pigging

Hydroblasting

Pressure washing

Sand blasting

Hazards

Pressurized liquids

Liquids or gases

Abrasives

Cut hazards requiring cut
protection

High temperatures

Mechanical hazards

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.

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



Tychem® 2000 SFR

Tychem® 2000 SFR provides 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 provide 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.



Requirements
of NFPA 70E®

Non-FR/chemical-protective garments



Tyvek® 400

An ideal balance of protection, durability, and comfort for maintenance activities

- Non-woven material that protects against particles (down to 1.0 micron)
- Delivers consistently better protection even after wear and abrasion
- Flashspun high-density polyethylene with superior durability over microporous film fabrics
- Comfort-fit design that enables a greater range of movement while performing tasks



Category III



TYPE 5



TYPE 6



EN 1149-5



EN 1073-2*
Class 1



Midstream/ Downstream

Tasks

Cleaning

Pigging

Hydroblasting

Pressure washing

Sand blasting

Hazards

Pressurized liquids

Liquids or gases

Abrasives

Cut hazards requiring cut protection

High temperatures

Mechanical hazards

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



Tyvek® 800 J

Tyvek® 800 J 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



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

Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.



Midstream/ Downstream

Tasks

Confined space entry

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

Hazards

Hazardous atmospheres

Flash fire

Hazardous chemicals (liquids or solids)

Cut hazards requiring cut 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.

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



Tychem® 2000 SFR

Tychem® 2000 SFR provides 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 provide 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.



Requirements of NFPA 70E®



Midstream/ Downstream

Tasks

Confined space entry

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

Hazards

Hazardous atmospheres

Flash fire

Hazardous chemicals (liquids or solids)

Cut hazards requiring cut protection

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



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

Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.



Midstream/ Downstream

Tasks

Insulation work—asbestos or non-asbestos

Handle thermal system insulation, metal bands and jacketing

Hazards

Sharp edges

Hazardous particles

Cut hazards requiring cut 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.

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



Tychem® 2000 SFR

Tychem® 2000 SFR provides 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 provide 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.



Requirements of NFPA 70E®



Midstream/ Downstream

Tasks

Insulation work—asbestos
or non-asbestos

Handle thermal system insulation,
metal bands and jacketing

Hazards

Sharp edges

Hazardous particles

Cut hazards requiring
cut protection

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



DuPont SafeSPEC

Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.

Cut-resistant sleeves



Sleeves made from DuPont Kevlar®

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



Midstream/ Downstream

Tasks

Line breaking/vessel opening

Shut down process

Determine hazards

Lockout/tagout (LOTO)

Monitor hazardous atmospheres

Perform work

Hazards

Chemical exposures

Flash fire

Pressurized systems

Cut hazards requiring
cut 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.

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



Tychem® 2000 SFR

Tychem® 2000 SFR provides 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 provide 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.



Requirements
of NFPA 70E®



Midstream/ Downstream

Tasks

Line breaking/vessel opening

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

Hazards

- Chemical exposures
- Flash fire
- Pressurized systems
- Cut hazards requiring cut protection

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


DuPont – SafeSPEC™



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

Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.



Midstream/ Downstream

Tasks

Maintenance—electrical work

Performing electrical work

Hazards

Arc flash

Hazards requiring gloves made with Kevlar® that are arc rated 2 up to 4

Chemical exposures

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

NFPA
70E®

Cat 2

ISO
11612

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



Nomex®: High Arc Rated Suit

These multi-layer garments built with Nomex® are used for protection against high incident energy hazard levels and meet U.S. 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® 2000 SFR

Tychem® 2000 SFR provides 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 provide 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

HRC
2

Requirements
of NFPA 70E®



Midstream/ Downstream

Tasks

Maintenance—electrical work

Performing electrical work

Hazards

Arc flash

Hazards requiring gloves made with Kevlar® that are arc rated 2 up to 4

Chemical exposures

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



Cut-resistant gloves



Coated Gloves made with DuPont Kevlar® Fiber

Coated gloves made with Kevlar® fiber offer cut protection and are resistant to oil and hydrocarbons. The rough finish provides tactile feel and a better grip. Impermeable for working in damp or greasy environments.



Midstream/ Downstream

Tasks

Emergency response—fire, spill or release

Stop fuel source and extinguish fire

Stop liquid or gas release and clean up or neutralize

Hazards

Thermal burns

Chemical 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.



Hoods made with Nomex® Nano Flex

Thin, lightweight and durable, hoods made with Nomex® Nano Flex 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 partner with these manufacturers of hoods made with Nomex® Nano Flex:

Fire-Dex	Veridian
PGI	Viking



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 partner with these manufacturers of turnout gear made with Nomex®, Nomex® Nano and Kevlar®:

Fire-Dex	Innotex	Quaker Safety
Globe	Lakeland	Veridian
Honeywell	Lion	Viking



Midstream/ Downstream

Tasks

Emergency response—fire, spill or release

Stop fuel source and extinguish fire

Stop liquid or gas release and clean up or neutralize

Hazards

Thermal burns

Chemical exposures

Flash fire

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



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



Tychem® 6000 FR

Tychem® 6000 FR styles TP198T and TP199T are single-layer garments that provide 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.



Requirements of NFPA 70E*



Tychem® 2000 SFR

Tychem® 2000 SFR provides 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® 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® tape should not be used around heat, open flame, sparks or in potentially flammable environments. For professional use only.

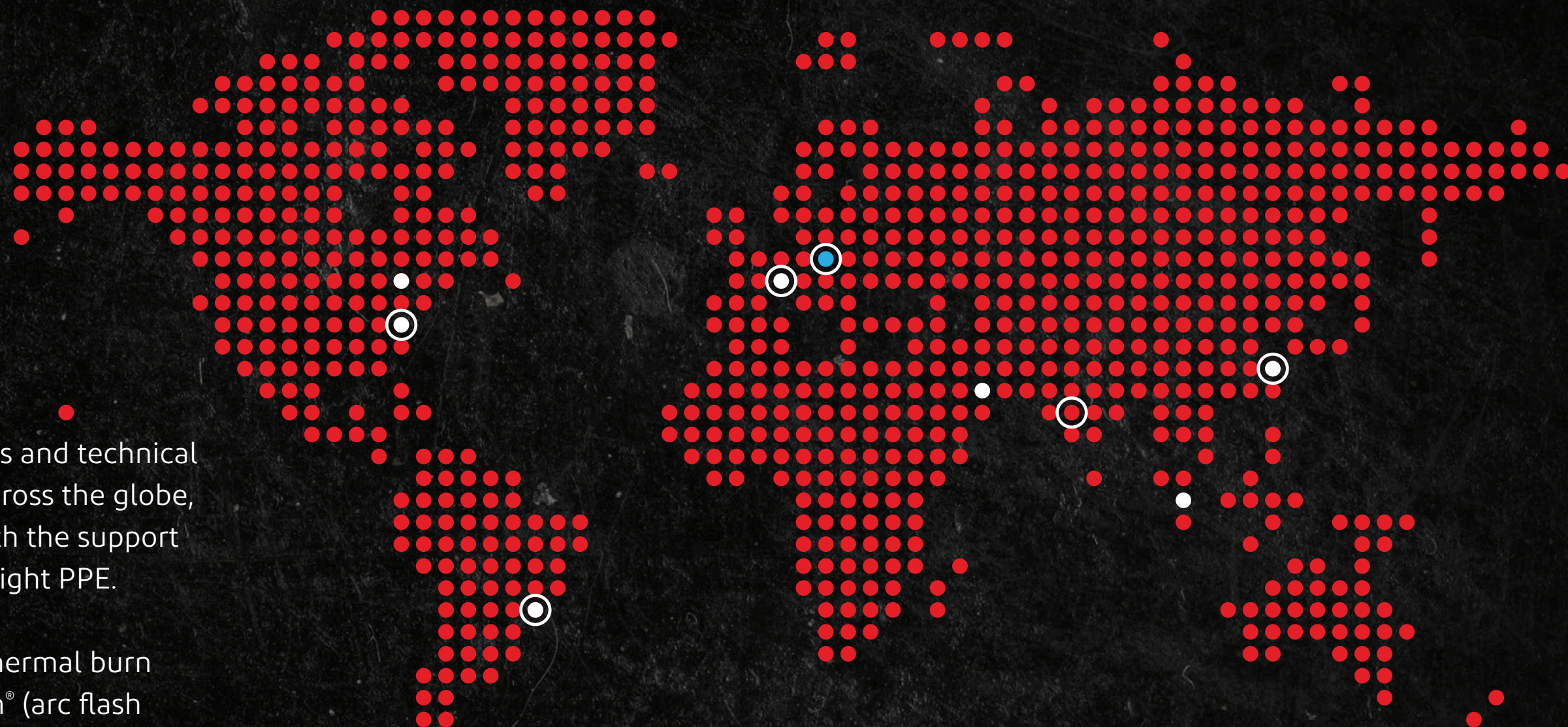


Global reach

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

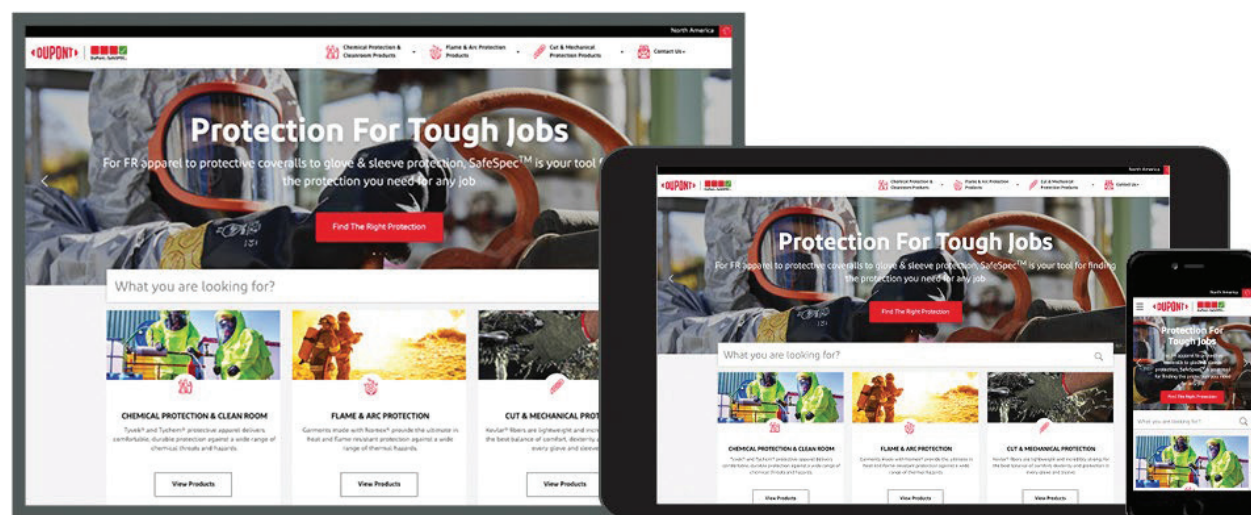


We're here to help

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 permeation test results database for Tychem® fabrics and allows you to search by either hazard or industry to help you find the right protection for the job at hand.

safespec.dupont.asia



DuPont Personal Protection - **Innovating for Sustainability**

For over 50 years, DuPont's proven technologies have played a key role in protecting people at work, and advancing sustainability is an essential extension of that role. From product development and manufacturing to packaging, distribution, and marketing, we are focused on continuous innovation to promote sustainability along the value chain.

Working towards **UN Sustainable Development Goals** - Committed to delivering trusted solutions

In support of the DuPont 2030 Sustainability Goals, we are committed to delivering solutions that will also help address climate change, drive towards a circular economy, and help communities thrive.



Good Health and Well-being - Our products protect people from hazards on the job so they can go home safely



Decent Work and Economic Growth - We ensure decent working conditions and economic growth opportunities for workers across all of our manufacturing sites globally



Industry, Innovation, and Infrastructure - We seek to build resilient infrastructure, promote inclusive and sustainable industrialization, and foster innovation



Reduced Inequalities - As a corporation, we are committed to advancing Diversity, Equity and Inclusion



Responsible Consumption and Production - We are implementing efficient manufacturing processes, and we recycle manufacturing waste



Our continued sustainability efforts have been awarded an EcoVadis Silver medal.



«DUPONT»

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

DuPont Personal Protection
safespec.dupont.asia
dupont.com.sg

 **DuPont Personal Protection**
 **@DuPontPPE**

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