

# Personal protective equipment (PPE) for the fire services and hazmat sector

## Protecting your team in a variety of emergency response scenarios

For a range of hazards encountered by first responders and secondary emergency response professionals, DuPont offers a complete range of chemical protective fabrics and garments. It's this knowledge and experience that has made us a leader in chemical, thermal and arc flash protective garments. Whether responding to a traffic accident or containing an industrial emergency, fire and hazmat response encompasses a variety of chemical, biological and radioactive threats, all of which require different levels of protection.

### Uses for DuPont PPE to protect workers

DuPont offers protective garments—from use with low- to high-risk hazards—that may be suitable for use in the fire services and hazmat response sector.

#### Fire service & hazmat response

First responders face exposure to threats ranging from toxic industrial chemicals (TICs) to chemical warfare agents (CWAs) during incident response. Fire scene response and emergency medical treatment include a variety of risks.

#### Fire scene investigation

Site activities after a fire incident include arson investigation and cleanup operations. Workers are exposed to a wet and dirty environment where chemicals and other hazardous materials may be present.

#### Disaster & pandemic response

Natural and man-made disasters include potential exposure to hazards related to chemical/biological incidents, bioterrorism and pandemics.

#### Toxin & pest exposure

Incident response operations often bring responders in contact with pests (bed bugs, fleas, etc.) and toxins (pesticide-laden cannabis crops) during risk mitigation operations.

## Customer support—we're here to help



#### SafeSPEC™

DuPont™ SafeSPEC™, our powerful web-based tool, can assist you with finding the appropriate DuPont garments for chemical and thermal hazards and controlled environments. SafeSPEC™ has a full permeation test results database for DuPont™ Tychem® fabrics and allows you to search by hazard to help find the appropriate protection. The SafeSPEC™ app is also available for mobile use.

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

#### Thermo-Man®

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 predict the heat and flame resistance that FR garments can deliver in a simulated flash fire.

[thermo-man.dupont.com](https://thermo-man.dupont.com)

#### Certified Industrial Hygienist team and Technical Experts

A DuPont Certified Industrial Hygienist can conduct a job hazard assessment to help you determine an ideal DuPont garment for a specific hazard. DuPont Technical Experts are also available to work side by side with the HSE manager to help simplify the process for them to properly match PPE to the hazards your workers face.

#### Emergency Response PPE Guidebook

Designed to help simplify the PPE selection process, the Emergency Response PPE Guidebook from DuPont Personal Protection provides comprehensive, one-stop solutions to help match the right PPE to tasks and hazards in the emergency response industry.

[dupont.com/personal-protection/emergency-response-ppe.html](https://dupont.com/personal-protection/emergency-response-ppe.html)

**ProShield® 10 Style PB127S¹**

Comfort and quality at an affordable price

Spunbond-meltblown-spunbond (SMS) garments

Coveralls with front entry, horizontal front zipper closure

Attached hood

Elastic waist/wrists

Available in blue or white, and gray (Style 127)

**Tyvek® 400 Style TY122S¹**

Breathable barrier protection against hazardous dry particles, aerosols and non-hazardous liquid splash

Comfortable garment two times more durable than MPF or SMS garment

Coveralls with front entry, horizontal front zipper closure with storm flap

Attached respirator-fit hood

Attached skid-resistant boots

Elastic waist/wrists

**Tyvek® 800 Style TJ198T¹**

Liquid-resistant taped seam garment for fire scene investigation and decontamination operations

Combines benefits of Tyvek® fabric with resistance to low-concentration, water-based, inorganic chemicals

Coveralls with front entry, horizontal front zipper closure with storm flap

Attached respirator-fit hood

Elastic wrists/ankles

CE Certified chemical protective clothing, Category III, Type 3-B, 4-B, 5-B and 6-B

Protects against infective agents (EN 14126) and resistant to penetration by blood and body fluids using synthetic blood (ISO 16603)

**Tychem® 6000 Style TF169T¹**

Strong, durable and lightweight protection against multiple risks and a range of chemicals

Provides complete coverage of neck area, good fit around a respirator

Coveralls with front entry, horizontal zipper with storm flap and self-adhesive tape

Attached respirator-fit hood with elastic face opening

Elastic wrists

Attached socks



**Tychem® 6000 Style TF611T\*1**

Durable protection for law enforcement and emergency medical services (EMS) technicians

Impervious to hazardous “white powder” (i.e., fentanyl) and other toxins



Design eliminates need for taping potential leak spots (gloves, boots, hood, zipper)

Coveralls with rear entry, horizontal zipper with storm flap, snaps and hook/loop closure



Attached respirator-fit hood with elastomer face seal

Attached multi-layer laminate gloves

Attached socks with outer boot flaps

Certified to NFPA 1992

Passes ASTM F1671 protocol for viral penetration testing and ASTM F1670 for synthetic blood penetration

**Tychem® 10000 Style TK554T/TK555T\*1**

Encapsulated Level A suit protects against toxic and corrosive gaseous/liquid/solid chemicals

Durable fabric helps provide exceptional puncture and tear resistance

Expanded back helps protect wearer and expensive SCBA respiratory equipment

Front (TK554T) or rear (TK555T) entry style suit

Attached hood and extra-wide face shield

Extra-long zipper with storm flap and hook/loop closure

Attached multi-layer laminate (inner) and butyl or viton (outer) gloves

Attached socks with outer boot flaps

Lime yellow (high visibility) color



Comparison within the DuPont portfolio: ✓ Acceptable for use  
(Blank) Not recommended

\*More garment styles available.

\*\*Please see last page for additional information.



**DuPont Personal Protection**  
**safespec.dupont.com**  
**dpp.dupont.com**

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

**\*\*WARNING:** Tyvek®, ProShield®, and most Tychem® garments including Tychem® 2000 Tape, should not be used around heat, flames, sparks or in potentially flammable or explosive environments.

Only Tychem® 6000 FR and Tychem® 10000 FR garments are designed and tested to help reduce injury during escape from a flash fire. ProShield® 6 SFR and Tychem® 2000 SFR garments offer secondary flame resistance and are designed to be used over primary flame-resistant garments, including but not limited to, Nomex® Essential (Nomex® IIIA) or Nomex® Comfort garments. Users of Tychem® 10000 FR, Tychem® 6000 FR, Tychem® 2000 SFR, and ProShield® 6 SFR garments should not knowingly enter an explosive environment. Consult the Tychem® User Manual, located on our website, for instructions on proper use, care and maintenance of your Tychem® garments.

Do not wear non-flame-resistant garments in potentially flammable or explosive environments. Instead, consider use of flame-resistant or secondary flame-resistant garments, which must be worn over primary flame-resistant garments.

This information is based upon technical data that DuPont believes to be reliable. It is subject to revision as additional knowledge and experience become available. It is the user's responsibility to determine the level of toxicity and the proper personal protective equipment needed. This information is intended for use by persons having the technical expertise to undertake evaluation under their own specific end-use conditions, at their own discretion and risk. Anyone intending to use this information should first check that the garment selected is suitable for the intended use. The end-user should discontinue use of garment if fabric becomes torn, worn or punctured, to avoid potential chemical exposure. Since conditions of use are beyond our control, DUPONT MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION. This information is not intended as a license to operate under or a recommendation to infringe any patent or technical information of DuPont or other persons covering any material or its use.

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