



## Personal Protective Equipment for HAZMAT Response

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

DuPont offers a complete range of chemical protective fabrics and garments for a range of hazards encountered by first responders and secondary emergency response professionals. This knowledge and experience has made us a leader in chemical protective garments.

Whether responding to a traffic accident or containing an industrial emergency, hazmat response encompasses various 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 hazmat response sector.

#### > HAZMAT Response

During incident response, first responders face exposure to threats ranging from toxic industrial chemicals (TICs) to chemical warfare agents (CWAs). Emergency medical treatment includes a variety of risks.

#### > 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.

## Not just solutions but in-depth knowledge and technical guidance

- > **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.asia](https://safespec.dupont.asia)
- > **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. Work with the HSE manager to help simplify the process for them to match PPE to the hazards your workers face properly.
- > **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. <https://www.dupont.com.sg/personal-protection/emergency-response-ppe.html>

## Comprehensive DuPont garments for protection against a variety of HAZMAT hazards



**Tyvek® 400** - 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.
- Optional attached skid-resistant boots (Optional with some models). Elastic waist/wrists



**Tyvek® 800 J** - Liquid-resistant taped seam garment for fire scene investigation and decontamination operation

- 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 is resistant to penetration by blood and body fluids using synthetic blood (ISO 16603)



**Tychem® 6000** - 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 an elastic face opening and Elastic wrists.
- Optional attached socks



## Tychem® 6000 with FaceSeal - Durable protection for law enforcement and emergency medical services (EMS) technicians

- Impervious to hazardous “white powder” (i.e., fentanyl) and other toxins
- The design eliminates the 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 an elastomer face seal. Attached are 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 (TK) - Encapsulated Level A suit protects against toxic and corrosive gaseous/liquid/solid chemicals.

- The durable fabric helps provide exceptional puncture and tear resistance
- Expanded back helps protect the wearer, and expensive SCBA respiratory equipment
- Front (TK554T) or rear (TK555T) entry-style suit
- CE Certified chemical protective clothing, Category III, Type 3-B, 4-B, 5-B, and 6-B
- Attached hood and extra-wide face shield. Extra-long zipper with storm flap and hook/loop closure. Multi-layer laminate (inner) and butyl or viton (outer) gloves are attached. Attached socks with outer boot flaps Lime yellow (high visibility) color



## ProShield® 10 - Comfort and quality at an affordable price SMS garments.

- Made of spunbond meltblown spunbond (SMS) material
- Limited particle protection
- Coveralls with front entry, horizontal front zipper closure, attached hood, elastic waist/wrists
- Available in blue or white and grey

DuPont offers a complete range of chemical protective garments for first responders and emergency professionals. Their garments cater to various hazards, such as hazmat response, disaster, and pest exposure. They provide technical guidance through SafeSPEC™ and have a team of experts for hazard assessment. DuPont's protective garments include Tyvek® and Tychem® series for different levels of protection.

**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 the 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 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 the 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 the use of the garment if a 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

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