PROTECTIVE GARMENTS FOR EMERGENCY RESPONDERS

Assistance in the selection of appropriate protective garments for the chemical, biological and other hazards that emergency responders may face in their duties.

More information: www.safespec.dupont.co.uk
Firefighters and other emergency responders can come into contact with many different toxic chemicals and biological agents in the course of their duties. Skin contact represents a significant path of exposure for a huge proportion of industrial chemicals and blood-borne pathogens and it is vital that protective clothing is available that can provide the most appropriate barrier protection for the risk, or risks, concerned. Some preliminary selection guidance is provided in Figure 1. below.

### What factors to consider when selecting protective garments?

When selecting protective garments, the nature and scale of hazards, their likelihood, frequency, severity, location, expansion potential, concurrence with other hazards and the availability of resources to deal with them are amongst the factors that must be considered.

For instance, emergency response garments are often worn for long periods in very intense, stressful environments and in locations which may be physically inaccessible. This calls for protective clothing that is not only effective technically but can cope with the duration and intensity of the response exercise. Wearer comfort must be considered alongside barrier performance since cumbersome garments can induce fatigue, heat stress and psychological tension. Garment weight, strength, durability and seam performance are other important factors.

Correct equipment, training and procedures are essential for a quick, efficient and safe response. Responders must take particular care when it comes to putting on and removing protective garments to avoid cross contamination. For advice on the recommended donning and doffing procedures please consult DuPont Personal Protection.

### First Responder Protection from DuPont

Emergency response coveralls from DuPont are designed to provide optimum safety whilst maintaining maximum operator comfort and mobility. Light, comfortable and ergonomically designed for movement and dexterity, they come with a range of features and optional accessories for enhanced protection, ease of use and wearability. These include fully elasticated hoods, ankles and wrists, double sleeves, protective socks and overboots, sealed zipper flaps, thumb loops, throat guards and over-taped seams.

### A solution for every Emergency Response application

- **Fire scene investigations**
- **Clean-up after fire**
- **Road and industrial accidents**
- **Handling leakage of flammable substances**
- **Training activities**
- **Transportation of infected patients** (even with highly infectious diseases)
- **Road traffic incidents**
- **Crime scene investigations**
- **Drug preparation scenes**
- **White powder responses**

* CE certification pending (chemical, heat, flame and electric arc protection)!
**Tychem® TK.**
Tychem® TK, a gas-tight suit, for use with self-contained breathing apparatus, providing protection against a broad range of toxic, corrosive gases, liquid and solid chemicals.

- Chemical protective clothing, Category III, Type 1a-ET, limited use
- Certified according to EN 943-2 (protective clothing against liquid and gaseous chemicals)
- Also available with detachable HazMat chemical boots

**Tychem® ThermoPro**
360° protection against chemicals, flame and electric arc in a single-layer garment.

- CE certification pending (chemical, heat, flame and electric arc protection)
- ThermoPro coveralls* are certified according to:
  - NFPA 2112, Standard on Flame-Resistant Garments for Protection of Industrial Personnel against Flash Fire
  - NFPA 70E, Electrical Arc Flash Hazard Category 2
- Also available as Combo suit (bib overall and jacket) and sleeved apron

* Does not refer to Combo suit (bib overall and jacket) and sleeved apron

**Tychem® F**
Trusted protection against a broad range of toxic industrial organic chemicals, highly concentrated inorganic chemicals, particulates, biohazards and chemical warfare agents.

- Chemical protective clothing, Category III, Type 3-B, 4-B, 5-B and 6-B
- EN 14126 (barrier to infective agents)
- EN 1073-2 (protection against radioactive contamination)
- EN 1149-5 (antistatic properties) – on the inside
- Coverall also available in orange colour or grey with attached socks
- Tychem® F grey Accessories available (gown, apron, sleeves, overboots)

**Tychem® 6000 F**
Trusted protection against a broad range of chemicals and biohazards in an IMPROVED design

**Tychem® 2000 C**
Comfortable, lightweight protection against biohazards and inorganic chemicals in an IMPROVED design

**GARMENTS AVAILABLE AT DUPONT SPECIALITY PARTNERS**
Custom-made garments, including ventilated coveralls, made from DuPont™ Tychem® fabric

**FUTURE DUPONT™ TYCHEM® GARMENTS**
NEED HELP FINDING AND SELECTING PROTECTIVE CLOTHING?

DuPont can provide full information on the range of options available and provide assistance with the matching of protection to anticipated exposure risks. For details of the full DuPont range and for fabric permeation data go to DuPont™ SafeSPEC™ Selector Tools and see solutions proposed for your tasks, at www.safespec.dupont.co.uk

DuPont Personal Protection
DuPont de Nemours Luxembourg S.à r.l.
L-2984 Luxembourg
Toll free: +800 387 66 858
Tel.: +352 3666 5111
Fax: +352 3666 5071
E-mail: garments.europe@dupont.com
www.chemicalprotection.dupont.co.uk

www.safespec.dupont.co.uk

The selection of appropriate the PPE (including respiratory, eye, head, foot, and hand protection) is the responsibility of the end-user and must be made following a thorough hazard assessment of the work tasks and the environment. It must also be checked that the selected PPE meets relevant government and industry standards. The information provided by DuPont is not intended as a substitute for any hazard assessment testing that the end-user needs to conduct to determine for themselves the suitability of our products for their particular purposes. This information is offered for consideration and is not a recommendation.