



Product Line by Hazard

When it comes to addressing a broad range of hazards in the workplace, specifiers have many product options from which to select. The process to understand which option matches a given situation can be confusing and taxing. DuPont Personal Protection has tried to reduce some of that burden by providing a complete line of products with supporting information to help guide specifiers through the selection process.

To get the most out of your Personal Protective Equipment (PPE), it is necessary to understand where the products are intended to be used. DuPont™ SafeSPEC™ is a sophisticated, easy-to-use interactive tool

that provides suggestions for chemical protective clothing based on the user's hazard scenario.

Our database includes hundreds of chemicals, including warfare agents and the ASTM F1001 standard list of challenge chemicals. This tool can be accessed on our website at SafeSPEC.DuPont.com. To provide a quicker overview of our products and where they are ideally suited for use, we developed the simple guide below. Our goal was to match the level of protection and value for a given exposure hazard.

DuPont™ Tyvek® and General Protection Products

Typical General Industrial Hazards/Description/Examples

Garment	Non-hazardous								Hazardous											Flame** resistance				
	Particles			Aerosol	Light liquid splash*				Particles							Aerosol	Light liquid splash*							
	General dirt & grime	Animal waste	Sanding & grinding waste	Spray paint	Oil & grease	Lubricants	Fertilizer	Sewage	Fertilizer	Pesticides	Asbestos	Lead	Chromium	Beryllium	Mold	Fiber-glass	Carbon	Radio-active particles	Isocyanate containing		Sulfuric acid (18%)	Sulfuric acid (30%)	Sodium hydroxide (40%)	Sodium hydroxide (50%)
Tyvek® 400	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tyvek® 500	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tyvek® 600	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Tyvek® 800 J	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ProShield® 60	○	○	○	●	●	●	●	●																
ProShield® 10	○	○	○	○	○	○	○	○																
ProShield® 6 SFR	○	○	○	○	○	○																		●

● Generally preferred ○ Acceptable for use

*Liquid barrier performance varies based on the amount of liquid that may get on the garment, the length of time the liquid is on the garment, applied pressure and certain physical properties of the liquid. DuPont™ Tyvek® 400, DuPont™ Tyvek® 400 D, DuPont™ ProShield® 10, DuPont™ ProShield® 60 and DuPont™ Tyvek® FC garments are not appropriate if during use they are getting wet (liquid is dripping or running, or it is wet to the touch) or if spotting is observed on skin or garments worn under the protective garment. Serged and bound seams are degraded by some hazardous liquid chemicals, such as strong acids, and should not be worn when these chemicals are present. Tyvek® 600 and Tyvek® 500 garments use a special type of Tyvek® fabric, which has different physical properties and improved chemical resistance properties when compared to fabric used in standard Tyvek® garments. Additionally, the seams used in standard Tyvek® garments are different than the seams for Tyvek® 600 and Tyvek® 500 garments. Tyvek® 600 garments offer seams that are sewn and then taped, and Tyvek® 500 garments offer external sewn seams, where the seam thread is visible on the outside of the garment. Tyvek® 500 and Tyvek® 600 offer an improved liquid barrier, but may not be appropriate if spotting is observed on the skin or garments worn under the protective garment. In applications where a higher liquid barrier is needed, consider DuPont™ Tychem™ 2000 and DuPont™ Tychem™ 4000 garments with taped seams.

**DuPont™ ProShield® 6 SFR garments are flame-retardant treated, not inherently flame resistant, and are intended to be worn OVER primary flame-resistant protective apparel such as DuPont™ Nomex™ IIIA.

It is the user's responsibility to determine the nature and level of hazard and the proper personal protective equipment needed. The information set forth herein reflects laboratory performance of fabrics, not complete garments, under controlled conditions. It is intended for information use by persons having technical skill for evaluation under their specific end-use conditions, at their own discretion and risk. Anyone intending to use this information should first verify that the garment selected is suitable for the intended use. In many cases, seams and closures have shorter breakthrough times and higher penetration rates than the fabric. Please contact DuPont for specific data. If the garment becomes torn, abraded or punctured, end user should discontinue use of garment to avoid potential exposure.

DuPont™ Tyvek® 500 and DuPont™ Tyvek® 600 contain natural rubber latex, which may cause allergic reactions in some sensitized individuals. Anyone who begins to exhibit an allergic response during the use of DuPont products should immediately cease using these products. The incident should also be reported to DuPont at 1-800-441-3637 so that an investigation can be initiated.

LATEX STATEMENT: As of January 1, 2006, DuPont production specifications exclude use of components containing natural rubber latex in the manufacture of DuPont™ Tyvek™ IsoClean™, Sierra™ and ProClean™ garments.

WARNINGS:

- 1) Tyvek®, ProShield® 60 and ProShield® 10 garments are not flame-resistant and should not be used around heat, flame, sparks or in potentially flammable or explosive environments.
- 2) Garments made of Tyvek®, ProShield® 60, ProShield® 10 and ProShield® 6 SFR should have slip-resistant or anti-slip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping may occur.
- 3) Tychem™ should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Only DuPont™ Tychem™ 6000 FR, DuPont™ Tychem™ 10000 FR and DuPont™ Tychem™ 10000 styles 600T/601T (with aluminized outer suit) garments are designed and tested to help reduce injury during escape from a flash fire. Users of Tychem™ 6000 FR, Tychem™ 10000 FR and Tychem™ 10000 styles 600T/601T (with aluminized outer suit) 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.
- 4) Some Tychem™ garments have attached socks made of the garment material. These attached socks must be worn inside protective outer footwear and are not suitable as outer footwear. These attached socks do not have adequate durability or slip resistance to be worn as the outer foot covering.
- 5) DuPont™ Tyvek™ coveralls can be considered for use with the appropriate respirators and other suitable PPE to minimize contact with isocyanate paint aerosols. Tyvek™ garments are not appropriate if they are getting wet (paint is dripping or running, or wet to the touch) or if spotting is observed on skin or garments worn under the coveralls. Tychem™ aprons and smocks are available for situations where prolonged liquid exposure may be limited to the front of the torso and/or arms of the wearer. These aprons and smocks can be worn with Tyvek™ to provide localized protection while limiting the level of thermal discomfort.



Product Line by Hazard

DuPont™ Tychem® Chemical Protection Products

Typical Chemical Hazards/Examples

Garment	Hazardous dry powders & solids	Bloodborne pathogens & biohazards	Light chemical splash & aerosols	Moderate liquid chemical splash	Potential flash fire exposure & liquid organic chemicals	Heavy liquid chemical splash (toxics & corrosives)	ChemBio & warfare agents	Chemical vapors & gases (toxics & corrosives)	NFPA Ensembles					
	Dry pharma chemicals	Blood, saliva, human excrement	Inorganic acids and bases, salts	Organics, solvents	Meth-amphetamine	Known carcinogens	Sarin, mustard, VX nerve agent	Chlorine, anhydrous ammonia	1991 Flash fire option	1991 Liquid gas option	1992	1994 Class 2	2112	70E Cat 2
Tychem® 2000	●	●	●*											
Tychem® 4000	●	●	●*											
Tychem® 6000	○	●	○	●			●							
Tychem® 6000 FR	○	○	○	●	●		●				●		●	●
Tychem® 5000	○	●	○	●			○				●			
Tychem® 9000	○	○	○	●		○	●				●	●		
Tychem® Responder® CSM	○	○	○	●		●	●	●						
Tychem® 10000	○	○	○	●	○**	●	●	●	●**	●		●		
Tychem® 10000 FR	○	○	○	●	●**	●	●	●	●**	●				

● Generally preferred ○ Acceptable for use

*Serged and/or bound seams are degraded by some hazardous liquid chemicals, such as strong acids, and should not be worn when these chemicals are present.

**Tychem® 10000 FR 600T and Tychem® 10000 600T/601T have NFPA 1991 flash fire option.



DuPont™ SafeSPEC™

Different jobs require different levels of protection. The DuPont™ SafeSPEC™ online tool helps you find what's right for you. Browse and compare products by brand, design, or certification. The easy-to-read content, product images, and technical data—including permeation results—allow you to make informed garment choices.

Now for mobile, too.

DuPont™ SafeSPEC™ for Mobile gives you all the same features and garment-selection help on your mobile device. Available now from the App Store® and Google Play™.

SafeSPEC.DuPont.com

DuPont Personal Protection

Customer Service:

United States 1-800-931-3456

Canada 1-800-387-9326

PersonalProtection.DuPont.com