

DuPont Personal Protection

BECAUSE SOMEONE'S LIFE MAY DEPEND ON IT

PRODUCT CATALOGUE



The miracles of science™

CHEMICAL PROTECTIVE SOLUTIONS PRODUCT CATALOGUE
CONTENT OVERVIEW

Introduction

TYCHEM®

TYVEK®

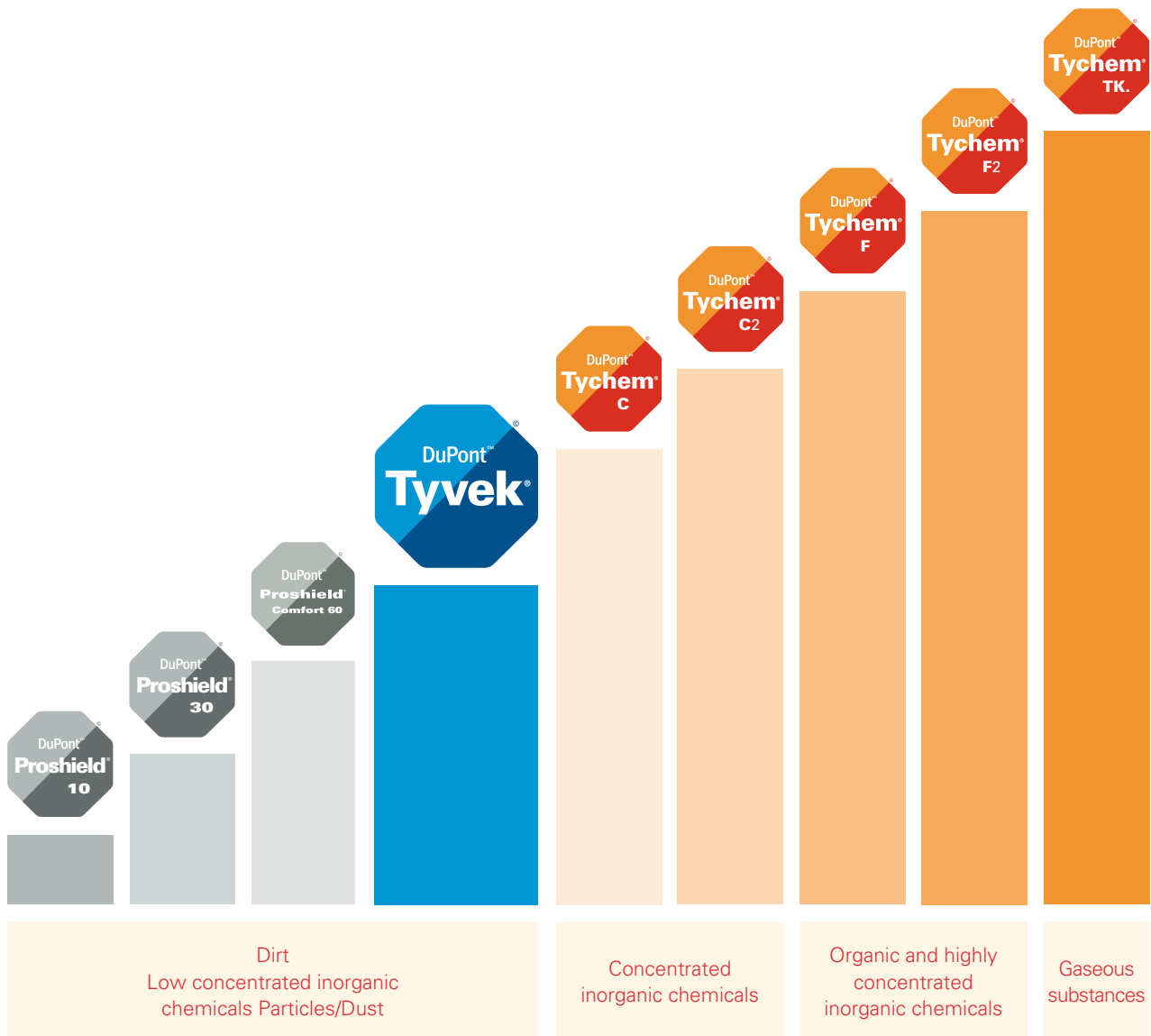
PROSHIELD®

Specialities

Services

YOUR PROTECTION NEED

- OUR CHEMICAL PROTECTIVE RANGE



Please note that before searching for appropriate protective clothing, a detailed assessment of the nature of the hazard and the working environment is needed. There are different factors like concentration, temperature, pressure and other environmental influences that have a significant influence on the barrier of protective garments.

For further information or support in protective clothing specification, please feel free to contact our technical hotline: Tel.: (00352) 621 164 043

WHY DUPONT PERSONAL PROTECTION?



BECAUSE

- **We are dedicated to personal protection, we cover it all.**
- **People's lives may depend on the choice of garment.**
- **Our garments are designed with the utmost care & expertise.**
- **Correct sizing is integral to high levels of protection & comfort.**
- **What you see is what you get, quality you can rely on.**

DuPont is committed to personal protection

Selecting the appropriate protective garment not only helps to prevent injury, but may also help to prevent long-term occupational diseases. Your employees may put their health at risk. Therefore, they require protection that they can rely on and trust. Here at DuPont, we combine scientific innovation with manufacturing expertise to provide a comprehensive range of protective clothing that helps people perform at their best.

We work very closely with industry to ensure that our product range meets specific industry needs. But our commitment to safety doesn't stop there; we also offer extensive support in garment specification as well as training on the correct handling of chemical protective clothing to help ensure that our garments are worn safely.

In this catalogue, you will find a detailed description of our chemical protective clothing product range:

TYCHEM®: The TYCHEM® range offers lightweight comprehensive protection starting at low toxic chemicals up to high toxic gases and biological hazards.

TYVEK®: The TYVEK® range offers protection against a variety of liquid or solid chemicals, as well as dust and fibres.

PROSHIELD®: The Proshield® product range offers a protective clothing solution for Type 5 and 6 exposures that are less demanding in terms of barrier.

→ For the latest news, and a description of the support services DuPont offers, please visit our website www.dpp-europe.com.

GARMENT SELECTION: A LIFE-SAVING CHOICE

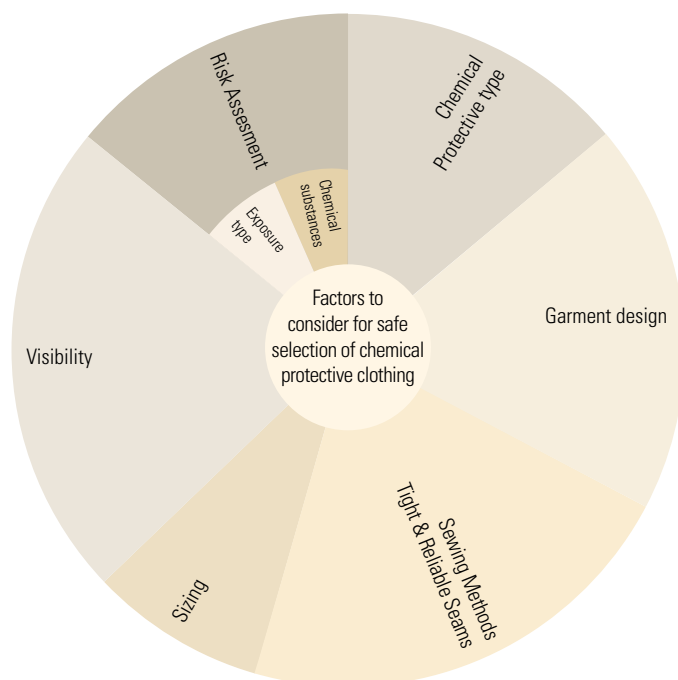


Various types of protection are needed when working with organic or inorganic chemicals, oils and lubricants, asbestos, dioxins or other hazards, as well as exposure to fine dusts, liquid aerosols, splashes, liquids or gases. This means that choosing the most suitable garment is an extremely important task of safety management. The selection of chemical protective clothing is based on a risk assessment.

While there are many different protective suits on the market, not all meet the same performance standards although they might be certified to the same type. Faced with a bewildering choice, what criteria should one use to select the right protective clothing?

The protection performance of a suit is defined by the whole suit performance as well as the chemical and mechanical properties of the fabric used in the manufacturing process. In addition, there are factors such as design, seams, sizing and fit and manufacturing quality to be considered.

Factors to consider in selecting appropriate protective clothing



CE Marking







To facilitate the choice of a chemical protective clothing, the European Union has identified six levels of protection (types) within category III (CE Certification). Certification to a particular protection type represents the tightness of the suit against a particular form of exposure (gas, liquid or dust). However it does not mean that the suit is 100% impervious to this type of exposure. It means only that the suit meets the minimum requirements and does not exceed a specified leakage. The manufacturer is under obligation to state to what type class(es) a suit corresponds to and what performance levels the material characteristics of a suit meet.

When choosing protective clothing, take into account the type classification, and examine the results obtained from the type and material test that should be indicated in the manufacturer's product description.




For example, for the type 5 inward leakage test, a leakage determined for the entire suit of up to 15% and individual leakages of up to 30% are permitted. Allocation to a specific protection type is therefore not a sign that all protection suits of this type have the same barrier properties. Rather, such protection suits can differ very greatly in terms of the barrier they provide, depending on the suit material or design. Only having a look at the detailed results allow making conclusions on the actual barrier and impermeability of the suit.

Protective Clothing Type Definition

Chemical Protective Clothing – Category III 

Type	DuPont Pictogram	Description	Norm
Type 1		Gas-tight clothing	EN 943-1 EN 943-2
Type 2		Non-gas-tight clothing	EN 943-1
Type 3		Protection against pressurised liquid chemicals	EN 14605
Type 4		Protection against liquid aerosols	EN 14605
Type 5		Protection against airborne solid particulate chemicals	EN ISO 13982-1
Type 6		Limited protection against liquid mist	EN 13034

Other types of protection

Pictogram	Description	Norm
	Protection against particulate radioactive contamination	EN 1073-2*
	Biological Protection	EN 14126
	Electrostatic discharge if properly grounded	EN 1149-1: 1995***

* Gives no protection against radioactive radiation.

** The antistatic treatment is only effective when relative humidity is > 25%.










The DuPont Techline Team is available to provide you information about the use of the DuPont garment range in explosives zones.

*** EN 1149-1: 1995 will change to prEN 1149-1: 2004 and prEN 1149-5: 2005.

What you see is what you get – quality you can rely on

As a specifier of protective suits, or as a protective-suit wearer, you must be assured at all times on the reliability and safety of your suit. At the time of manufacture, DuPont checks each and every protective suit for material quality and finish.

The DuPont Personal Protection garment range is easily identified by easy-to-read labeling and packaging.

Brands	Official DuPont Chest labels	Official DuPont Instructions for use	Official DuPont Packaging
TYCHEM®			
TYVEK®			
PROSHIELD®			

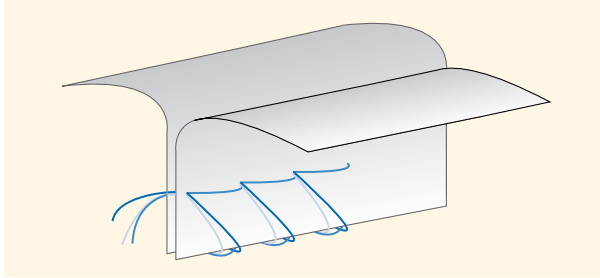
Garment design – not only a question of appearance

According to EN 340, protective clothing should not hinder the wearers from performing and working safely. Our garments are developed by experienced DuPont Protective Clothing Specialists with wearer comfort as well as safety in mind. We are committed to ensure each garment is optimised in fit, sizing and fabric performances as well as compatibility with other protective equipment, like respirators, gloves and safety shoes/boots.

Tight and reliable seams – a top priority for DuPont

When selecting a garment, carefully check the quality of the seams, as they contribute to the overall protection of the garment.

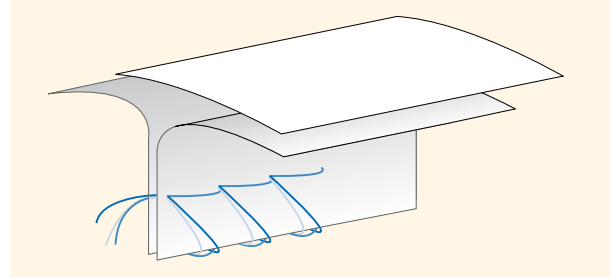
Stitched



Type 5/6

Stitching offers good balance between seam strength and seam barrier.

Stitched and overtaped



Type 3/4

Seams can be stitched and overtaped. The tapes used for DuPont products with this type of seam offer a barrier equal to that of the fabrics.

Sizing – an integral part to proper protection and comfort

	Size	Height	Chest
	S	162 - 170 cm	84 - 92 cm
	M	168 - 176 cm	92 - 100 cm
	L	174 - 182 cm	100 - 108 cm
	XL	180 - 188 cm	108 - 116 cm
	XXL	186 - 194 cm	116 - 124 cm
	XXXL	192 - 200 cm	124 - 132 cm

All DuPont garments are available in a broad range of sizes to ensure the best possible fit. The sizing diagram indicates the body measurements and the corresponding DuPont sizes. These size definitions are based on body measurements taken while wearing a layer of underwear and without wearing shoes. When selecting a garment, choose a size based on the wearer's measurements, not on normal clothing sizes.

Visibility

Hazardous material emergencies often occur in badly-lit environments, so the need for high visibility is an important factor in chemical protective apparel – particularly for emergency teams.

The colours chosen for DuPont™ TYCHEM® fabrics – bright yellow and orange – were based on research.

OVERVIEW OF SOLUTIONS

Our chemical and biological protective suits

Particulate radioactive contamination	Chemical					Biological	
Body	Body					Body*	
							
	Gaseous chemicals Vapours Type 1	Liquids Type 3	Spray Type 4	Solid Particulates, fibres Type 5	Light spray, low volume splashes Type 6	Protection against contaminated liquids	Protection against contaminated dusts
EN 1073-2	EN 943-1 EN 943-2	EN 14605	EN 14605	EN ISO 13982-1	EN 13034	EN 14126	
DuPont™ TYCHEM ® coveralls range	DuPont™ TYCHEM ® coveralls range					DuPont™ TYCHEM ® coveralls range	
TYCHEM® F2	TYCHEM® TK	TYCHEM® F2			TYCHEM® F2		
TYCHEM® F		TYCHEM® F			TYCHEM® F		
TYCHEM® C2		TYCHEM® C2			TYCHEM® C2		
TYCHEM® C		TYCHEM® C			TYCHEM® C		
DuPont™ TYVEK ® coveralls range	DuPont™ TYVEK ® coveralls range					DuPont™ TYVEK ® coveralls range	
TYVEK® Classic Plus	TYVEK® Classic Plus					TYVEK® Classic Plus	
TYVEK® Classic	TYVEK® Classic					TYVEK® Classic	
TYVEK® Industry	TYVEK® Industry					TYVEK® Industry	
DuPont™ PROSHIELD ® coveralls range	DuPont™ PROSHIELD ® coveralls range					DuPont™ PROSHIELD ® coveralls range	
PROSHIELD® 30	PROSHIELD® Comfort 60					PROSHIELD® Comfort 60	
PROSHIELD® 10	PROSHIELD® 30					PROSHIELD® 30	
	PROSHIELD® 10					PROSHIELD® 10	





* All garments are antistatically treated and meet the EN 1149-1: 1995 (or prEN 1149-1: 2004 an prEN 1149-5: 2005) requirements.

USE OF CHEMICAL PROTECTIVE CLOTHING IN EX-ZONES

Companies operating in such widely differing sectors as the chemical and pharmaceutical industry, the gas supply sector and the varnishing industry use combustible materials that can create potentially explosive atmospheres. These 'explosive protection zones' or 'EX-zones' are classified into various categories depending on the frequency and length of time that the hazard exists.

Thanks to the tests conducted by the Swiss Safety Institute, in Basel, the below table shows in which situation TYVEK®/TYCHEM® protective clothing can be safely worn.

		TYVEK®	TYCHEM® C	TYCHEM® F
Zone 0	An area in which a potentially explosive atmosphere, consisting of a mixture of air and flammable substances - in the form of gas, vapour or mist - is present constantly for long periods or is frequently present.	✓	✓	✓
Zone 1	An area in which a potentially explosive atmosphere, consisting of a mixture of air and flammable substances - in the form of gas, vapour or mist - can occur during normal operation.	✓	✓	✓
Zone 2	An area in which a potentially explosive atmosphere, consisting of a mixture of air and flammable substances - in the form of gas, vapour or mist – usually does not occur in normal operation or, if it does occur, only persists for a short period.	✓	✓	✓
Zone 20	An area in which a potentially explosive atmosphere, in the form of a cloud of combustible dust in the air, is present constantly, or for long periods or frequently.	✓	✓	✓
Zone 21	An area in which a potentially explosive atmosphere, in the form of a cloud of combustible dust in the air, can occur during normal operation.	✓	✓	✓
Zone 22	An area in which a potentially explosive atmosphere, in the form of a cloud of combustible dust in the air, usually does not occur in normal operation or, if it does occur, only persists for a short period.	✓	✓	✓
IIA	Acetone, Benzene and Toluene.	✓	✓	✓
IIB	Ethylene, Ethylene oxide and Diethyl ether.	✓	✓	✓
IIC	Acetylene, Hydrogen and Carbon disulphide.	✓	✓	No

Source: Directive 1999/92/EC (ATEX Directive 137).

TYVEK® and TYCHEM® protective clothing meet the requirements of the EN 1149-1: 1995 (or prEN 1149-1: 2004 an prEN 1149-5: 2005) standards.

N.B.: The antistatic properties of TYVEK® and TYCHEM® protective clothing depend on taking up moisture from the air. It is therefore essential to ensure that the relative humidity of the environment in which they are used is sufficiently high. The antistatic treatment is only effective when relative humidity is above 25%. Please note that the antistatic treatment only means the clothing material is dissipative. In order to avoid the creation of sparkles (that could ignite an explosive atmosphere), the garment and the wearer need to be properly grounded. This means that both the clothing and the wearer must be permanently earthed, taking care to ensure that the surface of the clothing which has been given antistatic treatment is earthed.

→ For more detailed information on the use of TYVEK® and TYCHEM® products in explosive zones, please contact our Techline Team, or ask for our 'Antistatic technical sheet - working safely in explosive zones'.



WHY TYCHEM®?

BECAUSE TYCHEM® DELIVERS LIGHTWEIGHT COMPREHENSIVE PROTECTION

The TYCHEM® product range offers comprehensive protection starting at low toxic chemicals up to toxic gases and biological hazards.

Benefits for wearer's safety and comfort of the TYCHEM® garment offering:

- ✓ Combination of chemical and biological protection
- ✓ Innovative design features for increased protection and enhanced comfort
- ✓ Lightweight garments helping workers to perform at their best
- ✓ For applications where decontamination is needed, the fabric is resistant to commonly used decontamination substances
- ✓ No halogen compounds, so can be disposed of via standard means.

Applications:

- ✓ Agrochemical handling
- ✓ Bio engineering
- ✓ Chemical industry
- ✓ Civil protection
- ✓ Decommissioning of production plants
- ✓ Decontamination of contaminated land
- ✓ Disease and disaster management
- ✓ Disposal of hazardous materials
- ✓ Emergency response services, spill clean-up and accident interventions
- ✓ Fire brigades
- ✓ Industrial cleaning and maintenance
- ✓ Medical applications and exposure to biological hazards
- ✓ Military applications
- ✓ Oil handling, oil tanker cleaning
- ✓ Pharmaceutical industry
- ✓ Tank cleaning, inspection and maintenance
- ✓ Nuclear industry





TYCHEM® F2

Protection against organic and highly concentrated inorganic chemicals and biohazards. Offers improved tightness level at a higher mechanical level.



TYCHEM® F

Protection against organic and highly concentrated inorganic chemicals and biohazards.



TYCHEM® C2

Protection against concentrated inorganic chemicals and biohazards. Offers improved tightness level at a higher mechanical level.



TYCHEM® C

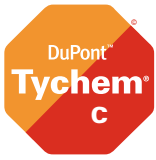
Protection against concentrated inorganic chemicals and biohazards.





PRODUCTS





TYCHEM® C coveralls

Model with integrated socks now available!
Thumb loops: now a standard regular garment feature.



Chemical Protective Coveralls, Category III



Type 3	Type 4	Type 5	Type 6	EN 14126 Type 3B	EN 1149-1: 1995	EN 1073-2

- ✓ Protection against numerous inorganic chemicals
- ✓ Resists liquid splashes up to 2 bar
- ✓ Particle tight fabric
- ✓ Biological protection – meets the EN 14126 requirements in the highest performance class
- ✓ Protection against particulate radioactive contamination

- ✓ Lightweight Type 3B protection
- ✓ Garment design provides the right fit and ease of movement for the wearer
- ✓ Suitable for usage in Ex-Zones (as recommended on page 11)
- ✓ For applications where decontamination is needed: the fabric is resistant to certain commonly used decontamination substances
- ✓ Does not contain halogen compounds, so can be disposed of via standard means.

TYCHEM® C Standard, model CHA5

- Hooded coverall.
- Elasticated hood and self-adhesive chin flap for tight fit around respirator.
- Double self-adhesive zipper flap offers high level of protection.
- Elasticated cuffs and ankles.
- Elasticated waist for better fit of garment.
- Stretch rubber thumb loop attached to the end of the sleeve. It must be pulled over the thumbs and ideally suited for overhead work when extreme arm movements are required. **It prevents the suit sleeve from riding up.** (For safety reasons the use of thumb loops is only recommended when a second glove is worn).

Seams: Stitched and overlapped, offering equal barrier as fabric.

Colour/Reference:



Yellow:
TYC CHA5T YL00



Green:
TYC CHA5T GR00

Size: S to XXXL

TYCHEM® C Standard with socks, model CHA6

→ Same design features as model CHA5, +:

- Socks attached to the ankle for wearing inside safety boots or shoes with additional knee length boot flap to ensure high level of protection.

Colour/Reference:



Yellow:
TYC CHA5T YL16

Size: S to XXXL

* DuPont pictograms.

** The antistatic treatment is only effective when relative humidity is > 25%.

*** Gives no protection against radioactive radiation.



TYCHEM® C2 coverall

Greater mechanical resistance combined with an innovative and revolutionary design.



Chemical Protective Coverall, Category III



Type 3	Type 4	Type 5	Type 6	EN14126 Type 3B	EN 1149-1: 1995	EN 1073-2

- ✓ Protection against numerous inorganic chemicals
- ✓ Resists liquid splashes up to 2 bar
- ✓ Particle tight fabric
- ✓ Biological protection – meets the EN 14126 requirements in the highest performance class
- ✓ Protection against particulate radioactive contamination
- ✓ Higher level of protection through outstanding design features for demanding tasks
- ✓ Increased mechanical strength
- ✓ Comfortable, textile-like touch of inside fabric thanks to the new multi-layer systems
- ✓ Lightweight - helps wearers to perform at their best
- ✓ Easy dressing and undressing helping to reduce the risk of cross contamination
- ✓ For applications where decontamination is needed: the fabric is resistant to certain commonly used decontamination substances
- ✓ Does not contain halogen compounds, so can be disposed of via standard means.

TYCHEM® C2, model CHZ5

- Innovative double zips provide enhanced protection and easier donning and duffing.
- Hood-design allows free movement of head without disturbing the view as well as tight fit around the respirator.
- Exceptional garment closures: self-adapting elastics on cuffs and ankles improve significantly the fit and reduce risk of leakage at critical closure points.
- Elasticated waist for optimum fit to body.
- Elasticated double cuff system for improved protection.

Seams: Stitched and overtaped, offering equal barrier as fabric.

Colour/Reference:



Yellow:
TC2 CHZ5T YL 00

Size: S to XXXL

* DuPont pictograms.

** The antistatic treatment is only effective when relative humidity is > 25%.

*** Gives no protection against radioactive radiation.



TYCHEM® F coveralls and accessories

Model with integrated socks now available!
Thumb loops: now a standard regular garment feature.



Chemical Protective Coveralls, Category III



Type 3	Type 4	Type 5	Type 6	EN 14126 Type 3B	EN 1149-1: 1995	EN 1073-2

- ✓ Protection against numerous organic and highly concentrated inorganic chemicals
- ✓ Resists liquid splashes up to 5 bar
- ✓ Particle tight clothing material
- ✓ Biological protection – meets the EN 14126 requirements in the highest performance class
- ✓ Protection against particulate radioactive contamination
- ✓ Lightweight Type 3B protection, only 450 g for Tychem® F – size L
- ✓ Ease of movement and correct fit
- ✓ Suitable for use in Ex-Zones (as recommended on page 11)
- ✓ For applications where decontamination is needed: the fabric is resistant to commonly used decontamination substances
- ✓ Does not contain halogen compounds, so can be disposed of via standard means.

TYCHEM® F Standard, model CHA5

- Hooded coverall.
- Elasticated hood and self-adhesive chin flap for tight fit around respirator.
- Double self-adhesive zipper flap offers high level of protection.
- Elasticated cuffs and ankles.
- Elasticated waist for better fit of garment.
- Stretch rubber thumb loop attached to the end of the sleeve. It must be pulled over the thumbs and ideally suited for overhead work when extreme arm movements are required. **It prevents the suit sleeve from riding up.** (For safety reasons the use of thumb loops is only recommended when a second glove is worn).

Seams: Stitched and overlapped, offering equal barrier as fabric.

Colour/Reference:



Grey:
TYF CHA5T GY 00



Green:
TYF CHA5T GR 00



Orange:
TYF CHA5T OR 00

Size: S to XXXL

TYCHEM® F Standard with socks, model CHA6

→ Same design features as model CHA5, +:

- Socks attached to the ankle for wearing inside safety boots or shoes with additional knee length boot flap to ensure high level of protection.

Colour/Reference:



Grey:
TYF CHA5T GY 16

Size: S to XXXL

Accessories:

TYCHEM® F Boot cover, model POBA

- Knee length boot cover with antislip sole.

Seams: Overlapped, offering equal barrier as fabric.

Colour/Reference:



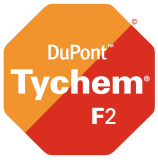
Grey:
TYF POBAS GY 00

Size: Single size

* DuPont pictograms.

** The antistatic treatment is only effective when relative humidity is > 25%.

*** Gives no protection against radioactive radiation.



TYCHEM® F2 coverall

Greater mechanical resistance combined with an innovative and revolutionary design.



Chemical Protective Coverall, Category III



Type 3	Type 4	Type 5	Type 6	EN 14126 Type 3B	EN 1149-1: 1995	EN 1073-2

Equal barrier to TYCHEM® F with higher mechanical strength

- ✓ Protection against numerous organic and highly concentrated inorganic chemicals
- ✓ Resists liquid splashes up to 5 bar
- ✓ Particle tight clothing material
- ✓ Biological protection – meets the EN 14126 requirements in the highest performance class
- ✓ Protection against particulate radioactive contamination
- ✓ Higher level of protection through outstanding design features for demanding tasks
- ✓ Increased mechanical strength
- ✓ Comfortable, textile-like touch of inside fabric thanks to the new multi-layers systems
- ✓ Lightweight helping wearers to perform at their best
- ✓ Easy donning and duffing helping to reduce the risk of cross contamination
- ✓ For applications where decontamination is needed: the fabric is resistant to the commonly used decontamination substances
- ✓ Does not contain halogen compounds, so can be disposed of via standard means.

TYCHEM® F2, model CHZ5

- Innovative double zips provide enhanced protection and easier donning and duffing.
- Hood-design allows free movement of head without disturbing the view as well as tight fit around the respirator.
- Exceptional garment closures: self-adapting elastics on cuffs and ankles improve significantly the fit and reduce risk of leakage at critical closure points.
- Elasticated waist for optimum fit to body.
- Elasticated double-cuff system for improved protection.

Seams: Stitched and overtaped, offering equal barrier as fabric.

Colour/Reference:



Grey:
TF2 CHZ5T GY 00

Size: S to XXXL

* DuPont pictograms.

** The antistatic treatment is only effective when relative humidity is > 25%.

*** Gives no protection against radioactive radiation.



WHY TYVEK®?

BECAUSE PROTECTION, DURABILITY AND COMFORT ARE THE ULTIMATE COMBINATION



Touch any garment from the comprehensive DuPont™ TYVEK® product range, such as TYVEK® Classic, and you will notice the difference. It is a unique and versatile material that is tough, yet extremely light and soft. TYVEK® was invented and is manufactured exclusively by DuPont. TYVEK® is air and water vapour permeable, yet repels water-based liquids and aerosols. It acts as an excellent barrier against particles and fibres. It is low-linting and also antistatically treated.

Therefore it also helps to prevent human contamination of products and processes in clean-room environments.

Applications:

- ✓ Agrochemical handling
- ✓ Asbestos
- ✓ Automotive industry
- ✓ Chemical industry
- ✓ Cleanroom applications
- ✓ Contaminated land clean-up
- ✓ Electronics
- ✓ Emergency response services
- ✓ Food processing
- ✓ Decontamination of contaminated land and work sites
- ✓ Disease management
- ✓ Disposal of hazardous materials
- ✓ Industrial cleaning and maintenance
- ✓ Medical applications and exposure to biological hazards
- ✓ Nuclear industry
- ✓ Pharmaceuticals

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Product Overview



TYVEK® Classic Plus

Combines the performance of a type 4B with the comfort of a nonwoven suit.



TYVEK® Classic

Trusted protection. Every year, millions of TYVEK® Classic garments protect people in various applications.



TYVEK® Industry

The garment that helps to protect processes and products against human contamination.



- **Protection**

High particulate, spray and splash barrier.

- **Durability**

Extremely tough, tear and abrasion resistant. Coveralls retain their integrity in arduous conditions, and so maintain protection levels throughout their usage.

- **Comfort**

Permeable to both air and water vapour, allowing the fabric to “breathe”. It is also extremely light, soft and flexible.

- **Low-linting**

Made of continuous strong fibres, it is low-linting.

- **Contaminant-free**

Made from pure high-density polyethylene. It does not contain fillers, binders or silicon, so is free of inherent contaminants.

- **Antistatic**

TYVEK® is antistatically treated, so that when coveralls are correctly earthed electrostatic charge build-up is prevented.

- **Outstanding particle holdout**

Because TYVEK® is made of extremely fine, continuous fibres, it has outstanding holdout effectiveness against fine particles and fibres.

- **Chemical splash resistant**

TYVEK® resists low-pressurised water-based liquid chemical splashes.

- **Repellent**

TYVEK® has an ultra-smooth surface that repels inorganic liquids and discourages solid particles from adhering.







TYVEK® INDUSTRY coverall

The garment that helps to protect processes and products against human contamination.



Chemical Protective Coverall, Category III



			
Type 5	Type 6	EN 1149-1	EN 1073-2

- ✓ Barrier against many inorganic chemicals in low concentrations and particles larger than 1µm
- ✓ Protection against particulate radioactive contamination
- ✓ Contamination control: helps prevent human skin and germs from contaminating the working environment
- ✓ Does not contain halogen compounds, so can be disposed of via standard means.

TYVEK® Industry, model CCF5

- Collared coverall.
- TYVEK® zipper with zip flap for improved safety offering higher level of tightness.
- Elasticated cuffs and ankles for good fit of garment openings.
- Elasticated waist for safe fit of garment and wearer comfort.

Seams: Internal stitched seams reducing risk of contamination from garment by reducing particle penetration from inside the garment to outside.

Colour/Reference:



White:
TYV CCF5S WH 00

Size: S to XXL

* DuPont pictograms.

** The antistatic treatment is only effective when relative humidity is > 25%.

*** Gives no protection against radioactive radiation.



TYVEK® CLASSIC coveralls

Trusted protection. Every year, millions of TYVEK® Classic garments protect people in various applications.



Chemical Protective Coveralls, Category III



Type 5	Type 6	EN 1149-1	EN 1073-2

- ✓ Barrier against many inorganic chemicals in low concentrations and particles larger than 1µm
- ✓ Protection against particulate radioactive contamination
- ✓ Reliable Type 5 and 6 protection
- ✓ As a result of its unique manufacturing process, TYVEK® is permeable to air and water vapour
- ✓ Suitable for usage in Ex-Zones (as recommended on page 11)
- ✓ Easy to dispose off, does not contain halogen compounds
- ✓ Garment design offers ease of movement to the wearer

TYVEK® Classic, model CHF5

- Ergonomic 3 piece hood allowing easy movement of head without disturbing the view of the wearer.
- TYVEK® zipper with zip flap for improved safety offering higher level of tightness.
- Elasticated cuffs and ankles for good fit of garment openings.
- Elasticated in waist for safe fit of garment and wearer comfort.

Seams: External stitched seams for enhanced protection against penetration from outside to inside of garment.

Colour/Reference:



White:
TYV CHF5S WH 00



Green:
TYV CHF5S GR 00



Blue:
TYV CHF5S BU 00

Size: White: S to XXXL
Coloured: S to XXL

* DuPont pictograms.

** The antistatic treatment is only effective when relative humidity is > 25%.

*** Gives no protection against radioactive radiation.



TYVEK® CLASSIC PLUS coveralls

Now available with integrated socks!
Thumb loops: now a standard garment feature.



Chemical Protective Coveralls, Category III



Type 4*	Type 5*	Type 6*	EN 14126 Type 4B	EN 1149-1	EN 1073-2

- ✓ Barrier against many inorganic chemicals in low concentrations and particles larger than 1µm
- ✓ This suit offers protection against solid cytostatic agents (Lyophilisat)
- ✓ Protection against particulate radioactive contamination
- ✓ Barrier against solid biological contaminated particles of risk group 1 and 2****
- ✓ Combines performance of a Type 4B with the comfort of a nonwoven suit
- ✓ As a result of its unique manufacturing process, TYVEK® is permeable to air and water vapour
- ✓ Suitable for usage in Ex-Zones (as recommended on page 11)
- ✓ Easy to dispose of, as it does not contain halogen compounds
- ✓ Garment design offers ease of movement to the wearer
- ✓ Suitable for usage in clean-room applications. Garment can be sterilized.

TYVEK® Classic Plus, model CHA5

- Hooded coverall.
- Hood shape and elastic around hood are designed for tight fit around full face respirator.
- Self-adhesive zipper flap with integrated chin flap.
- Stretch rubber thumb loop attached to the end of the sleeve. It must be pulled over the thumbs and ideally suited for overhead work when extreme arm movements are required. **It prevents the suit sleeve from riding up.** (For safety reasons the use of thumb loops is only recommended when a second glove is worn.)
- Elasticated waist for better fit of garment.

Seams: Stitched and overtaped, offering equal barrier as fabric.

Colour/Reference:



White:
TYV CHA5T WH 00



Green:
TYV CHA5T GR 00

Size: S to XXXL

Size: S to XXXL

TYVEK® Classic Plus, model CHA6

→ Same design features as TYVEK® Classic Plus, model CHA5, +:

- Socks attached to the ankle for wearing inside safety boots or shoes with additional knee length boot flap to ensure high level of protection.

Seams: Stitched and overtaped, offering equal barrier as fabric.

Colour/Reference:



White:
TYV CHA5T WH 16

Size: S to XXXL

* DuPont pictograms.

** The antistatic treatment is only effective when relative humidity is > 25%.

*** Gives no protection against radioactive radiation.

**** If disinfection is not applied



TYVEK® ACCESSORIES



TYVEK® accessories – Category I

TYVEK® labcoat model PL309

- Collar.
- Zip.
- 2 pockets.

Seams: Inside seams.

Colour/Reference:



White:
TYV PL30S WH 09

Size: S to XXL

TYVEK® labcoat model PL30NP

- Collar.
- 5 snappers.
- Without pockets.

Colour/Reference:



White:
TYV PL30S WH NP

Size: S to XXL

TYVEK® labcoat model PL30

- Collar.
- 5 snappers.
- 3 pockets.

Colour/Reference:



White:
TYV PL30S WH 00

Size: M to XXL

TYVEK® Trousers model PT31LO

- Without pockets.
- Elasticated waist.

Colour/Reference:



White:
TYV PT31S WH L0

Size: M to XXL

TYVEK® jacket model PP33

- With hood.
- Zip.

Colour/Reference:



White:
TYV PP33S WH 00

Size: S to XXL

TYVEK® Apron model PA30LO

- With flap.
- With 2 bonds to be tied in the back.
- Length 108 cm.

Colour/Reference:



White:
TYV PA30S WH L0

Size: One size

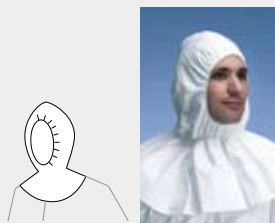
TYVEK® accessories – Category I

TYVEK® hood model PH30LO

- Hood and flange assembled with the overcasting.
- Elastic around the neck and the face.

Seams: Inside.

Colour/Reference:



White:
TYV PH30S WH L0

Size: One size

TYVEK® boot covers model POB0

- H 48 cm.
- L 42 cm.
- Elastic on the top.

Colour/Reference:



White:
TYV POB0S WH 00

Size: One size

TYVEK® shoe covers model POS0

- L 40 cm.
- Elastics on the ankle.

Colour/Reference:



White:
TYV POS0S WH 00

Size: One size

TYVEK® sleeves narrow model PS32LA

- 50 cm.
- Points of seam on the higher blue rubber band for small arms.
- Adjustable.

Colour/Reference:



White:
TYV PS32S WH LA

Size: One size

TYVEK® boot covers model POBA

- H 48 cm.
- L 42 cm.
- Elastic on the top.
- Slip retardant sole.

Colour/Reference:



White:
TYV POBAS WH 00

Size: One size

TYVEK® shoe covers model POSA

NEW! Safe walking also on slippery floors

- Elastic on the ankle.
- Slip retardant sole.
- Antistatic treatment.

Colour/Reference:



White:
TYV POSAS WH 00

Size: 36 to 42
42 to 46



DuPont™
Proshield®

WHY PROSHIELD®?

BECAUSE YOU ALSO NEED COMFORT OR GENERAL PURPOSE PROTECTION



DuPont Personal Protection complements its high performance TYVEK® and TYCHEM® product portfolio with a new PROSHIELD® range providing a protective clothing solution for type 5 & 6 exposures that are less demanding in terms of barrier.

The latest DuPont technology, Proshield® Comfort 60, brings a new dimension to comfort without having to compromise on protection. It is the ideal garment for applications that are less demanding in terms of barrier but highly demanding in terms of comfort. It helps minimize heat stress in warm environments or from strenuous tasks.

Proshield® 30, based on microporous film technology, offers good particle and liquid repellency. It is ideal for applications requiring medium protection with short wear-times, low levels of physical activity and/or at low ambient temperatures.

Proshield® 10, based on SMMS fabric technology, combines low particle and low liquid protection with high comfort levels. It is ideal when protection levels are less demanding, in warm areas or for strenuous tasks.

Product Overview

Category III



Proshield® Comfort 60



Proshield® 30



Proshield® 10

Category I



Proshield® PROPER



Proshield® POLYCLEAN



Proshield® Comfort 60 coverall




The latest DuPont technology, Proshield® Comfort 60, brings a new dimension to comfort!

Proshield® Comfort 60	
Protection	★ ★ ★ ☆ ☆
Comfort	★ ★ ★ ★ ★



Chemical Protective Coverall, Category III



		
Type 5	Type 6	EN 1149-1: 1995

- ✓ Transfers heat from the body keeping you cooler and dryer
- ✓ Garment design engineered for comfort with uncompromising freedom of movement
- ✓ Repels organic solvents and oil

For applications that are less demanding in terms of barrier but highly demanding in terms of comfort

- ✓ Brick & ceramic firing
- ✓ Glass or rubber manufacturing
- ✓ Foundries and smelting operations

Proshield® Comfort 60, model CH05

- 3-piece hood.
- Nylon zipper with integral zipper protection.
- Elasticated waist for optimum fit.
- Ample crotch area.
- Elasticated cuffs and ankles.

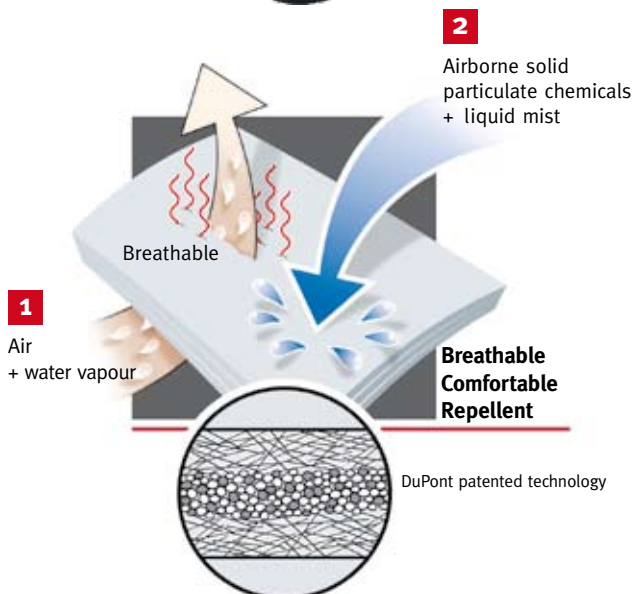
Seams: External sewn seams.

Colour/Reference:



White:
S60 CH05S WH 00

Size: S to XXXL



* DuPont pictograms.

** The antistatic treatment is only effective when relative humidity is > 25%.



Proshield® 30 coverall





Based on microporous films laminate technology, Proshield® 30 combines good particle protection with repellency.

Proshield® 30					
Protection	★	★	★	☆	☆
Comfort	★	☆	☆	☆	☆



Chemical Protective Coverall, Category III



			
Type 5	Type 6	EN 1149-1: 1995	EN 1073-2

- ✓ Good particle and liquid repellency
- ✓ Medium durability
- ✓ Good water vapour and low air penetration

Applications

- ✓ Short time exposure to oils (car, automotive)
- ✓ Exposure to colour and paint spraying (finishing)
- ✓ Limited level of exposure as defined by Type 5 and Type 6

Proshield® 30, model CHF5

- Hood.
- Nylon zipper with zipper flap.
- Sewn seams, inside.
- Elasticated waist.
- Elasticated cuffs and ankles.

Seams: Internal sewn seams.

Colour/Reference:



White:
S30 CHF5S WH 00

Size: S to XXXL

* DuPont pictograms.

** The antistatic treatment is only effective when relative humidity is > 25%.

*** Gives no protection against radioactive radiation.



Proshield® 10 coverall

Based on the SMMS technology, Proshield® 10 combines limited particle protection with high comfort level.

Chemical Protective Coverall, Category III



Type 5	Type 6	EN 1149-1: 1995	EN 1073-2

Proshield® 10	
Protection	★☆☆☆☆
Comfort	★★★★★

- ✓ Limited particle protection
- ✓ High comfort level
- ✓ Good air and water vapour penetration

Applications

- ✓ Maintenance workloads
- ✓ Limited level of exposure as defined by Type 5 and Type 6



Proshield® 10, model CHF5

- Hood.
- Nylon zipper with zipper flap.
- Elasticated waist.
- Elasticated cuffs and ankles.

Seams: External sewn seams.

Colour/Reference:



White:
S10 CHF5S WH 00



Blue:
S10 CHF5S BU 00

Size: S to XXXL

* DuPont pictograms.

** The antistatic treatment is only effective when relative humidity is > 25%.

*** Gives no protection against radioactive radiation.



Proshield® PROPER coverall

Stay clean when there's dirty work to be done!

Category I

- ✓ Microperforated non-woven polyethylene fabric (60g/m²)
- ✓ Antistatic treated on the inside
- ✓ Keep yourself clean with the suit, typical for maintenance and repair
- ✓ Washable up to 7 times
- ✓ Design and micro perforated fabric guarantee great comfort

Applications

- ✓ Do-it-yourself
- ✓ Maintenance
- ✓ Cleaning
- ✓ Factory visits
- ✓ Building industry
- ✓ Manufacturing applications

Proshield® Proper, model CCF5

- Collar, zipper.
- Nylon zipper.
- Elastic at cuffs.
- Elasticated waist.

Seams: Internal sewn seams.

Colour/Reference:



Grey:
PRF CCF5S GY 00

Size: S to XXL



Stay clean when there's dirty work to be done!

- ✓ Double layer of non-woven polypropylene fabric (50g/m²)

Applications

- ✓ Do-it-yourself
- ✓ Maintenance
- ✓ Cleaning
- ✓ Factory visits
- ✓ Building industry
- ✓ Manufacturing applications



Proshield® Polyclean, model CHF5

- Hood.
- Nylon zipper with zipper flap.
- Elasticated wrist, ankles and face opening.

Seams: External sewn seams.

Colour/Reference:



White:
P50 CHF5S WH 00



Blue:
P50 CHF5S BU 00

Size: M to XXL

Size: M to XXL



SPECIALITIES



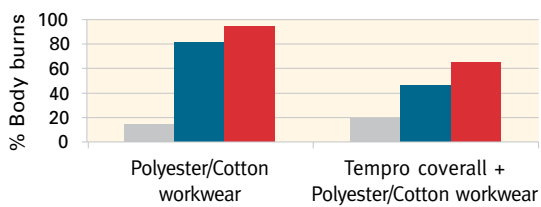
TEMPRO coverall

Product Benefits

- ✓ Breathable flame retardant garment with dust and liquid repellency
- ✓ To be worn over primary thermal protection like NOMEX® coveralls



TEMPRO & Polyester/Cotton comparison



2nd degree burn ■ 3rd degree burn ■ Total ■

TEMPRO, model CHF5

- Hood.
- Storm flap.
- Elasticated cuffs and ankles.

Colour/Reference:



Blue:
TEM CHF5S BU 00

Size: M to XXL

BECAUSE OUR SERVICES AND TRAINING HELP YOU CHOOSE SAFE AND RELIABLE PROTECTION



TYVEK® and TYCHEM® protective clothing are backed by a comprehensive package of technical services, safety information and advice.

Looking for reliable technical information and support?

Tel: (00352) 621 164 043.

Our Techline Team is there to answer your technical questions and help you to select the right protective clothing. The team maintains a complex database on physical properties, chemical permeation and penetration data for TYVEK® and TYCHEM® protective clothing materials.

Looking for fast and easy access to information?

The e-DPP News Service offers you 'easy-to-find' information that will help you to choose the right product. Indeed, you will find up-to-date information on new products but also various interesting case studies. To receive the e-DPP news on a regular basis, please log on our website at www.dpp-europe.com.

Looking for support in protective clothing training?

We provide a video on "Correct Handling of Protective Clothing".

The importance of correct garment handling is frequently underestimated, with employees assuming that wearing protective clothing automatically means protection. This video tackles this issue, highlighting correct procedures and the consequences of non-compliance.

Looking for more information on chemical protective clothing?

Attend a protective clothing seminar.

Protective clothing seminars are held regularly by DuPont Personal Protection experts. Seminar topics include: understanding barrier effects and protection performances, garment selection, CE-marking and their relevance to end-users.

→ **For more information on our support services, please contact:**

DuPont Personal Protection Tel: 00800 3666 6666 (toll free number)

E-mail: personal.protection@lux.dupont.com

Or visit our website at www.dpp-europe.com

OTHER DUPONT SAFETY OFFERINGS

Protection and NOMEX®

The superior flame resistance, unmatched thermal protection, comfort and durability of garments made from DuPont™ NOMEX® brand fibre have set the industry standard for over 30 years making NOMEX® the choice for those whose jobs expose them to risks from fire, flash fire, or electric arc.

To ensure that protective apparel made from NOMEX® delivers optimum protection and quality to the wearer, DuPont has established the NOMEX® Quality Programme, a partnership between DuPont and leading textile manufacturers in Europe. The Programme is based on a set of stringent requirements.

To qualify for partnership in the Programme, manufacturers submit garments that must undergo heat and flame testing at DuPont's European Technical Centre. Garments approved under the NOMEX® Quality Programme carry the distinctive NOMEX® Quality Label.

→ For further information, including a list of Quality Partners, visit www.dpp-europe.com. Or contact DuPont Personal Protection – NOMEX® by email: info.nomex@che.dupont.com or fax: +41 22 717 6131.

Protection and KEVLAR®



Gloves, sleeves and other protective garments made from DuPont™ KEVLAR® brand fibre offer an ideal combination of superior cut resistance, flexibility and lightweight comfort for workers in the automotive, steel, glass and metal, aerospace and electronics industries, among others. The newest offerings include:

- **KEVLAR® Armor Technology**
- **KEVLAR® Comfort Technology**
- **KEVLAR® Clean Technology**

The innovative solutions are available exclusively for licensed manufacturers.

→ For further information, including where to purchase apparel made of KEVLAR® in Europe, visit www.dpp-europe.com. Or contact DuPont Personal Protection – KEVLAR® by email: info.kevlar@che.dupont.com or fax: +41 22 717 6131.

DuPont Safety Resources

DuPont Safety Resources is the authority on safe work places, with more than 30 years of consulting and training experience in areas such as workplace and contractor safety, ergonomics and asset effectiveness. Formed to leverage DuPont's 200 years of operational excellence in safety, DSR helps leading-edge companies gain sustainable improvement in insurance and operation costs, security, public image and employee morale. DuPont Safety Resources is part of DuPont Safety and Protection, the DuPont business segment which provides solutions to protect people, property and operations.

To learn more about how to protect your workers while significantly reducing injuries and related costs on a sustainable basis, please call Isabelle Rolland in Geneva: + 41 22 717 50 17, or visit www.dupont.com/safety.

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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, we make 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.

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DuPont Solutions
for Personal Protection

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The miracles of science™