

# **DUPONT CONTROLLED ENVIRONMENTS**

Garment and Product Catalog





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## **DUPONT GARMENTS FOR CONTROLLED ENVIRONMENTS**

#### QUALITY, COMFORT AND DURABILITY FOR YOUR CLEANROOM

For more than 200 years, DuPont has been putting science to work by creating sustainable solutions essential to a better, safer, healthier life for people everywhere. One of the areas in which safety and health are of paramount importance is in cleanrooms and controlled environments.

DuPont understands your need to do everything possible to improve productivity and reduce risk in your controlled environment. The DuPont Controlled Environments portfolio offers a comprehensive selection of single-use cleanroom apparel and accessories designed for use in pharmaceutical, medical device, biotech and electronic settings that require high standards for particle and microbiological contamination control.

DuPont<sup>™</sup> Tyvek<sup>®</sup> garments have a long history of use in cleanrooms due to their excellent barrier to particles, microorganisms and non-hazardous liquids. They offer an ideal balance of protection, durability, and comfort. They are available in many styles for different cleanroom and controlled environment applications.



## **DUPONT GARMENT MATERIAL**

#### **DUPONT™ TYVEK® STERILE GARMENTS**

The highest performing garments in our product line are made from DuPont™ Tyvek®, which has been used to make high-quality cleanroom garments for more than 20 years. Tyvek® is made by DuPont with a proprietary flash-spinning process that creates continuous fibers of high-density polyethylene that are randomly distributed and non-directional.

- Tyvek® is tough, yet lightweight and soft.
- Tyvek® offers an ideal balance of protection, durability and comfort.
- Tyvek® acts as a breathable barrier against particles and bacteria.
- Tyvek® repels aqueous liquids and liquid aerosols.
- Tyvek° is inherently low linting and abrasion resistant.

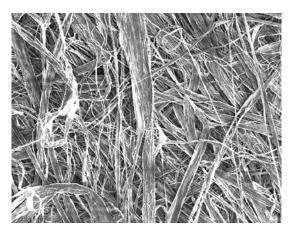


Image shown at 200x magnification.

DuPont Tyvek is made with a unique flash-spinning process that creates a tortuous path for particles.

#### **SINGLE-USE GARMENTS FROM DUPONT**

DuPont sterile cleanroom garments, designed for single use, offer meaningful advantages in today's challenging cleanroom environments, including:

- Quality single-use garments are not subjected to multiple cycles of wearing, laundering and sterilization, so fabric barrier and strength are consistent and predictable. Also, DuPont Controlled Environments garments help minimize crosscontamination risk because clean-processing and packaging are done in a facility that only handles new garments.
- Flexibility the DuPont single-use apparel program allows you to order only the quantities that you plan to use, which offers flexibility as your needs change.
- Cost Control single-use garments help eliminate budget uncertainties associated with garment repair, damage and loss, helping you to better predict expenditures.

#### **DUPONT QUALITY SYSTEMS FOR CLEANROOM GARMENTS**

DuPont single-use garments for controlled environments offer the following standards of quality:

- The DuPont Controlled Environments quality management system is ISO 9001:2008 registered.
- DuPont™ Tyvek® IsoClean® sterile garments have a sterility assurance level of 10-6. Radiation doses are validated in accordance with ANSI/AAMI/ISO 11137 through bioburden and dose verification testing.
- DuPont™ Tyvek® IsoClean® sterile garments are gamma irradiated in a facility that is registered by ISO 13485 quality standard and adheres to the requirements of ANSI/AAMI/ISO 11137.
- A Certificate of Sterility and a Certificate of Compliance come with every shipment of sterile Tyvek<sup>®</sup> IsoClean<sup>®</sup> single-use garments.
- Dose audits are conducted quarterly to maintain dose validation.
- Customers are invited to audit our manufacturing and sterilization facilities.
- Quality documentation is readily available and accurate when requested to help meet customer requirements.
- Lot traceability is maintained through garment manufacturing, processing and sterilization.

# CONTROLLED ENVIRONMENTS APPAREL SELECTION GUIDE

When it comes to working in a broad range of controlled environments, specifiers have many product options from which to select. The process to understand which option matches a given environment can be confusing and taxing. DuPont has tried to help reduce some of that burden by providing a complete line of products and information to help guide specifiers through their selection process.

To get the most out of your cleanroom apparel, it is necessary to understand where each product can be used. To provide a quicker overview of our products and where they are intended for use, we developed the simple guide below. Our goal is to provide the appropriate DuPont product that is suitable for a given environment or hazard.

#### **FABRIC PERFORMANCE FEATURES**

Fabric	Available Sterile	Particle Barrier	Non- Hazardous Liquid Barrier	Comfort	Durability	Static Dissipation <sup>†</sup>	Particle Shedding	Strengths
DuPont <sup>™</sup> Tyvek <sup>®</sup> IsoClean <sup>®</sup> flashspun polyolefin, clean-processed	Yes, CS option	•	•		•		•	
DuPont™ Tyvek® IsoClean® flashspun polyolefin, bulk	Yes, Sterile OS option	•		•	•	•	•	Ideal combination of protection, durability and comfort
DuPont™ Tyvek® Micro-Clean® 2-1-2 flashspun polyolefin	Yes, Sterile OS option	•		•	•	<b>O</b> **	•	
DuPont <sup>™</sup> ProClean® microporous films	No	*	*	•	•	•		Effective liquid barrier; low cost

<sup>\*</sup>Barrier properties may be compromised through use.

Comparison within the DuPont portfolio: Best Best Better (Blank) Not recommended

<sup>\*\*</sup>Antistatic performance may be reduced for sterile products.

<sup>†</sup> Nuisance static.

# **CONTROLLED ENVIRONMENTS APPAREL SELECTION GUIDE**

## **DUPONT CONTROLLED ENVIRONMENTS GARMENTS** DUPONT™ TYVEK® ISOCLEAN®, TYVEK® MICRO-CLEAN® 2-1-2, **DUPONT™ PROCLEAN®**

	Environments/		Pont <sup>™</sup> T	yvek° IsoCl	ean°		nt™ Tyvek° -Clean° 2-1-2	DuPont <sup>™</sup> ProClean°*	
	Hazards	Clean- Processed Sterile	Sterile	Clean- Processed Non-Sterile	Bulk Non-Sterile	Sterile	Non-Sterile**	Non-Sterile	Considerations
	ISO Class 5 Aseptic Cleanrooms (Former FED-STD- 209E; Class 100)	•	•			•			Tyvek® IsoClean® sterile garments offer excellent cleanliness, barrier and sterility assurance level.
Environments	ISO Class 6, 7, and 8 Bioburden Control Areas (Former FED-STD- 209E; Class 1000, 10,000 and 100,000)	•	•			•			Tyvek® IsoClean® sterile garments offer excellent cleanliness, barrier and sterility assurance level.
	ISO Class 6, 7, and 8 Cleanrooms (Former FED-STD-209E; Class 1000, 10,000 and 100,000)			•	•		•	•	Tyvek® provides an inherent particle barrier and durability, and is low linting. Clean processing and bound seams should be considered for more critical environments.
	Non-hazardous, dry particles	•	•	•	•	•	•	•*	Tyvek® provides an inherent barrier against small particles. Bound seam garments offer a higher level of protection than serged seam garments.
	Non-hazardous, light liquid splash	•	•	•	•			•*	ProClean® provides an effective barrier against a variety of common non-hazardous liquids.
Hazards	Hazardous powders Notice: DuPont Controlled Environments garments should not be used in potentially explosive or flammable environments.	•	•	•	•				Use bound seamed garments when working with hazardous powders.
	Hazardous liquid splash Examples: organic solvents, caustics								Please refer to our Tychem® product line for liquid and vapor chemical protection.
	Electric arc, industrial fire hazard, welding					Please refer to Nomex® for flame-resistant apparel. Controlled Environment garments are not suitable for firefighting activities, nor for protection from hot liquids, steam, molten metals, welding, electric arc or thermal radiation.			

Comparison within the DuPont portfolio: Best Better (Blank) Not recommended

<sup>\*</sup>Barrier properties may be compromised through use. \*\*Packaged individually.

# DUPONT" TYVEK" ISOCLEAN" GARMENTS FOR ISO 4/5 (CLASS 10/100) AND ISO 7/8 (CLASS 10,000/100,000) CONTROLLED ENVIRONMENTS

One of the most popular products in the DuPont Controlled Environments portfolio, DuPont™ Tyvek® IsoClean® clean-processed and sterile single-use garments offer an ideal balance of protection, durability and comfort. In addition, they feature the lowest particle shedding of any garments in the DuPont portfolio.

Tyvek<sup>®</sup> IsoClean<sup>®</sup> garments are available sterile and non-sterile in a wide variety of styles, such as coveralls, frocks, lab coats, hoods, gowns, bouffants, shoe and boot covers and sleeve protectors. For more information on Tyvek<sup>®</sup> IsoClean<sup>®</sup> garments, see p. 14 of this catalog.

# GOWNING FOR ISO 5 CONTROLLED ENVIRONMENTS — PER IEST-RP-CC003



# GOWNING FOR ISO 7/8 CONTROLLED ENVIRONMENTS — PER IEST-RP-CC003



## **GOWNING RECOMMENDATIONS**

#### **SEAM CONSTRUCTION**

Even the best protective fabrics are useless without strong, tight seams.



#### Serged or sewn

A seam produced when three threads are interlocked around the raw edges of two pieces of material for a strong, stress-resistant seam.



#### **Bound**

Tightly sewn with a reinforced outer binding to increase seam strength and barrier. For potential misting exposure of non-hazardous liquids or particle penetration through the seam.



#### **Covered elastic**

Elastic covered by garment material so elastic is not exposed.



#### **Taped**

Both sewn and taped to provide strong chemical resistance against heavy liquid splashes and tough seam stress. A sewn seam is covered with a strip of compatible material by heat-sealing.

## ISO 14644-1 AIR CLEANLINESS CLASSES FOR CLEANROOMS AND CLEAN ZONES

ISO Classification Number	o.1 µm	ο.2 μm	o.3 µm	о.5 µm	1.0 µm	5.0 µm	SI	English Former FED-STD-209E
ISO Class 1	10	2						
ISO Class 2	100	24	10	4	8			
ISO Class 3	1000	237	102	35	83		M 1.5	1
ISO Class 4	10000	2370	1020	352	832	29	M 2.5	10
ISO Class 5	100000	23700	10200	3520	8320	293	M 3.5	100
ISO Class 6	1000000	237000	102000	35200	83200	2930	M 4.5	1000
ISO Class 7				352000	832000	29300	M 5.5	10000
ISO Class 8				3520000	8320000	293000	M 6.5	100000
ISO Class 9				35200000	83200000	2930000		

## **IEST-RP - CC003.4 MINIMUM GOWNING RECOMMENDATIONS**

	ISO Class 8 (Class 100,000)	ISO Class 7 (Class 10,000)	ISO Class 6 (Class 10,000)	ISO Class 5 (Class 1,000)	ISO Class 4 (Class 100)
Hair cover	•	•	•	•	•
Hood				•	•
Face mask				•	•
Frock	•	•			
Coverall			•	•	•
Shoe covers	•	•			
Boots			•	•	•

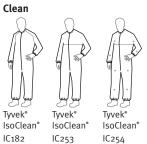
## THE DUPONT CE GARMENT PORTFOLIO

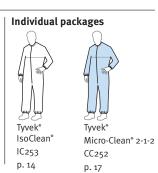
To help you select the right garments for your controlled environment, please select garment type, sterile or non-sterile, and your preference for either clean-processed, bulk or individually packaged.

#### **COVERALLS—WITHOUT HOOD**

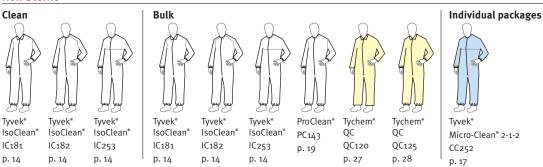
p. 14

#### **Sterile**

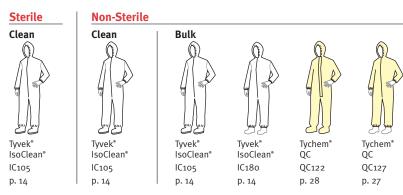




#### Non-Sterile



#### **COVERALLS—HOODED**



## THE DUPONT CE GARMENT PORTFOLIO

#### **FROCKS & LAB COATS**

#### Sterile

# Clean

Tyvek® IsoClean® IC270 p. 15

# Individual packages



Tyvek® IsoClean® IC262 p. 15

#### Non-Sterile



Tyvek® IsoClean® IC270 p. 15



Tyvek® Tyvek® IsoClean® IsoClean® IC224 IC262 p. 15 p. 15



Tyvek® IsoClean® IC263 p. 15



Tyvek® Tyvek° IsoClean® IsoClean® IC264 IC270 p. 15 p. 15



ProShield° Basic PB219 p. 26



ProShield® Basic PB267 p. 26



ProClean® PC270 p. 19



ProClean® PC271 p. 19

#### **HOODS & BOUFFANTS**

#### **Sterile**

#### Clean



Tyvek® IsoClean® IC666 p. 15

Tyvek® IsoClean® IC668

p. 15

Tyvek® IsoClean® IC729

Tyvek® IsoClean® 9820 p. 15 p. 16



Non-Sterile



Tyvek® IsoClean® IC666 p. 15



Tyvek® IsoClean° IsoClean® IC668 IC729 p. 15 p. 15



Tyvek® IsoClean° IC666 p. 15



Tyvek® IsoClean® IC668 p. 15



Tyvek® IsoClean® IC729 p. 15



ProClean® PC663 p. 19

#### **SLEEVES & CUFF TAPE**

#### **Sterile**



Tyvek® IsoClean® IC501 p. 15

Individual packages

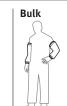


Tyvek® gen. purpose Tyvek° IsoClean® IsoClean® DE500 IC501 99479 p. 21 p. 15 p. 16

#### Non-Sterile



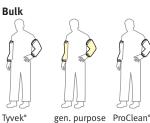




IsoClean®

IC501

p. 15



QC500

p. 21

PC500

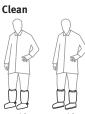
p. 19

**Customer Service 1 800 931 3456** 

## THE DUPONT CE GARMENT PORTFOLIO

#### **SHOE & BOOT COVERS**

#### **Sterile**



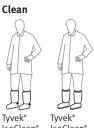
Tyvek° Tyvek° IsoClean° IsoClean° IC458 IC447 p. 16 p. 16

#### Individual packages



Tyvek° IsoClean° IC457 p. 16

#### Non-Sterile



Tyvek\* Tyvek\* IsoClean\* IsoClean\* IC458 IC447 p. 16 p. 16



Tyvek° IsoClean° IC444 p. 16



Tyvek° IsoClean° IC447 p. 16



IC451

p. 16

Tyvek° 'IsoClean° IC457 p. 16



Tyvek° Tyvek° IsoClean° IsoClean° IC458 IC461 p. 16 p. 16



Dura-Trac™ n° DT440 p. 17



SureStep" PE440 p. 17



SureStep™ PE444 p. 17



ProClean PC444 p. 19

## **APRONS, GOWNS & SMOCKS**

#### Non-Sterile



gen. purpose TY273 p. 21



Tyvek° IsoClean° IC226 p. 15



Tyvek° IsoClean° IC701 p. 15



Tychem° QC QC275 p. 28



Tychem° QC QC278 p. 28

#### **MASKS & FACE VEILS**

#### Sterile

#### Individual packages



Sierra™ ML730 p. 20



Sierra™ ML736 p. 20

#### Non-Sterile

#### Individual packages





p. 16



Sierra<sup>™</sup>
ML733
p. 20



Sierra™ ML736 p. 20



Sierra<sup>™</sup>
ML737
p. 20



gen. purpose PP740 p. 21



gen. purpose PP741 p. 21

## GARMENT PROCESSING AND PACKAGING OPTIONS

#### **STERILE**

#### Clean-processed and sterile (option code CS)

Garments are specially processed to minimize particle shedding, then folded to aid in aseptic donning and individually packaged in an ISO Class 4 cleanroom. The case quantity is packaged in a cardboard case with two polyethylene liners. Sterility is achieved by gamma irradiation. Radiation dosage is validated in accordance with ISO 11137 for a Sterility Assurance Level (SAL) of  $10^{-6}$ .

#### Sterile (option code 0S)

Garments are folded to aid in aseptic donning and individually packaged. The case quantity is packaged in a cardboard case with two polyethylene liners.



Opaque sterile pouch packaging features a no-smear label.

Some sterile items are folded and individually packaged in an ISO Class 5 cleanroom (see garment data sheet). Sterility is achieved by gamma irradiation. Radiation dosage is validated in accordance with ISO 11137 for a Sterility Assurance Level (SAL) of 10<sup>-6</sup>.

#### **NON-STERILE**

#### Clean-processed (option code 0C)

Garments are specially processed to minimize particle shedding and individually packaged in an ISO Class 4 cleanroom. The case quantity is packaged in a cardboard case with two polyethylene liners.

#### Individually packaged (option code PI)

Garments are individually packaged in an ISO Class 5 cleanroom. The case quantity is packaged in a cardboard case with two polyethylene liners.

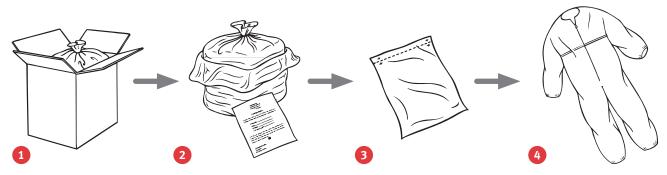
#### Bulk (option code 0B or 00)

Case quantities are packed in a cardboard case with two polyethylene liners. Tychem® garments are packed in a cardboard case with a single polyethylene liner.

Note: Individual packaging for shoe and boot covers indicates that each pair has its own sealed bag. Masks and cuff tapes may have subgroupings of individually packaged items within the case.

#### STERILE PACKAGING PROCESS

CRITICAL ASSURANCE STERILE APPAREL MULTILEVEL PACKAGING



Outer shipping carton is securely sealed. Carton displays product label, sterile dot indicator and fully traceable lot number. Multilevel interior packaging features one or two polyethylene carton liners. The outer liner provides protection from dust and contamination, particularly if outer carton is discarded. A lot-specific Certificate of Compliance with sterile dot indicator is placed between the two liners. The inner liner allows transportation of product to a cleaner, more controlled environment.

Completely heat sealed, airtight individual garment opaque bag is made from durable polyethylene film and features a varnish-coated ink, easy-to-open linear-tear and embossed lot number.

Sterile garment consistently folded and packaged to ease aseptic donning. Traceable lot numbers are stamped on each individual sterile garment.



#### **DUPONT™ TYVEK® ISOCLEAN®**

- Made from DuPont<sup>™</sup> Tyvek<sup>®</sup> brand flashspun polyolefin protective material
- Unique, patented flash-spinning process creates a barrier to dry particles, microorganisms and non-hazardous liquids
- Comfortable, lightweight and durable
- Clean-processed garments offer lowest level of particle shedding within DuPont product portfolio
- Garments available gamma sterilized to an SAL of 10<sup>-6</sup>
- Serged or bound seams with covered elastic options
- Bound seam garments offer highest particle barrier within DuPont CE product portfolio
- Traceability on all sterilized apparel
- Gripper<sup>™</sup> soles offer a higher level of slip resistance than standard **PVC** soles

#### **CHOOSE FROM THESE OPTIONS:**

- CS = Clean and Sterile: cleanprocessed, individually packaged and sterilized by gamma irradiation
- **0S** = Sterile: individually packaged and sterilized by gamma irradiation
- **0C** = Clean: clean-processed, individually packaged
- 00 or 0B = Bulk packaged
- **PI** = Individually packaged in an opaque bag

NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### Coverall

IC253BWHXX00250B IC253BWHXX00250S IC253BWHXX00250C IC253BWHXX0025CS

Bound seams Bound neck Dolman sleeve Covered elastic wrist, ankle Zipper closure White 25/cs SM, MD, LG, XL, 2X, 3X, 4X, 5X for oB, oS, and oC options SM-7X for CS option



IC105SWHXX002500 IC105SWHXX00250C IC105SWHXX0025CS

Serged seams Standard hood Elastic hood opening Set sleeve Elastic wrist, ankle Attached thumb loops Zipper closure Attached boots with PVC soles White 25/cs MD, LG, XL, 2X, 3X



#### IC254BWHXX0025CS

Bound seams Bound neck Dolman sleeve Covered elastic wrist, ankle Zipper closure Snaps for aseptic donning White SM, MD, LG, XL, 2X, 3X, 4X



#### Coverall

#### IC182BWHXX002500 IC182BWHXX00250C IC182BWHXX0025CS

Bound seams Bound neck Raglan sleeve Covered elastic wrist, ankle Zipper closure White 25/cs SM, MD, LG, XL, 2X, 3X, 4X



#### Coverall

## IC180SWHXX002500

Serged seams Standard hood Elastic hood opening Set sleeve Elastic wrist, ankle Zipper closure White 25/cs MD, LG, XL, 2X, 3X



#### Coverall

for oC option

#### IC181SWHXX002500 IC181SWHXX00250C

Serged seams Standard collar Set sleeve Elastic wrist, ankle Zipper closure White 25/cs SM, MD, LG, XL, 2X, 3X, 4X, 5X, 6X 7X, 8X for oo option SM, MD, LG, XL, 2X, 3X, 4X



#### Coverall

IC255BWHXX00250B IC255BWHXX00250S IC255BWHXX00250C IC255BWHXX0025CS

Bound seams Bound neck Dolman sleeve Covered elastic wrist, ankle Thumb loop Storm flap Zipper closure White SM, MD, LG, XL, 2X, 3X, 4X, 5X



## PART NUMBER GUIDE

IC	253	В	WH	LG	0025	CS
Fabric	Garment	Seam type	Color	Size	Case	Options
type	design	Seam type	Color	Size	count	U

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.



Frock: IC270

**NOTE:** Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### **Bouffant**

IC729SWHXX02500B IC729SWHXX02500C IC729SWHXX0250CS

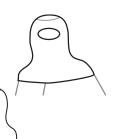
Serged seams Elastic headband 21.5" diameter White 250/cs Universal sizing (oo)



#### Hood

IC666BWHXX010000 IC666BWHXX01000C IC666BWHXX0100CS

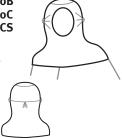
Bound seams Bound hood opening (eyes only) Snaps for fit Bound bottom White 100/cs MD, LG



#### Hood

IC668BWHXX01000B IC668BWHXX01000C IC668BWHXX0100CS

Bound seams Full face opening Bound hood opening Ties with loops for fit White 100/cs Universal sizing (oo)



#### **Sleeves**

IC501BWHXX01000B IC501BWHXX01000C IC501BWHXX01000S IC501BWHXX0100CS

Bound seams Covered elastic wrist, bicep 18" length White 100/cs Universal sizing (oo)



#### Frock

#### IC270BWHXX003000 IC270BWHXX00300C IC270BWHXX0030CS

Bound seams Bound neck Set sleeve Covered elastic wrist Snap closure (6 + 1 adjustable) White SM, MD, LG, XL, 2X, 3X, 4X



#### **Frock**

#### IC262SWHXX00300B IC262SWHXX00300S

Serged seams High mandarin collar w/adjustable snaps Raglan sleeve Elastic wrist Snap closure (6) Generous cut White 30/cs SM, MD, LG, XL, 2X, 3X, 4X for oB option MD, LG, XL, 2X, 3X for oS option



#### **Frock**

#### IC263SWHXX00300B

Serged seams High mandarin collar w/snap Set sleeve Elastic wrist Snap closure (6) White SM, MD, LG, XL, 2X, 3X, 4X



#### **Frock**

#### IC264SWHXX00300B IC264SWHXX00300C IC264SWHXX00300S IC264SWHXX0030CS

Serged seams Bound neck Raglan sleeve Elastic wrist Zipper closure A-line White 30/cs SM, MD, LG, XL, 2X, 3X, 4X



#### Lab coat

#### IC224SWHXX00300B

Serged seams Laydown collar Raglan sleeve Snap closure (5) Pockets (1 chest pencil, 2 lower front) White SM, MD, LG, XL, 2X



#### Gown

## IC701SWHXX003000

Serged seams Bound neck w/ties Knit cuff Bound ties originating at center front waist White 30/cs Universal sizing (oo)



#### Smock

#### IC226SWHXX00300B

Serged seams Bound neck Set sleeve Flastic wrist Wrap around (ties at waist) Pockets (1 chest pencil, 2 lower front) White SM, MD, LG, XL



#### **PART NUMBER GUIDE**

IC	253	В	WH	LG	0025	CS
Fabric type	Garment design	Seam type	Color	Size	Case count	Options

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.

NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### Mask

#### IC7310BUXX03000B

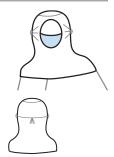
Bound Tyvek\* ties Pleated Polyethylene outer PBT filter Metal nose piece Blue 300/cs 7" Universal sizing (00)



#### Hood/mask

9820
Bound seams
Bound head openings
Ties with loops for fit
Hood—white
Face mask—blue
Pleated
Polyethylene outer

7"
Individually packaged
100/cs
Universal sizing (00)



#### **Cuff tape**

#### 994790WHXX04000S

Made of Tyvek\* IsoClean\* 20" long x 3" wide White 400/cs Universal sizing (00)



#### **Boot cover**

#### IC444SWHXX02000B

Serged seams
Elastic opening
Elastic ankle
PVC sole
15" high
White
200/cs
MD, LG, XL



#### **Boot cover**

#### IC447SWHXX01000B IC447SWHXX01000C IC447SWHXX0100CS

Serged seams Elastic opening Elastic ankle Gripper" sole 18" high White 100/cs

MD, LG, XL for oB and oC options MD, LG, XL, 2X for CS option only



#### **Boot cover**

#### IC457SWHXX01000B IC457SWHXX01000S

Serged seams Covered elastic opening Ties at ankle PVC sole 18" high White 100/cs SM, MD, LG, XL



#### **Boot cover**

#### IC458BWHXX01000B IC458BWHXX01000C IC458BWHXX0100CS

Bound seams
Covered elastic opening
Ties at ankle
Gripper" sole
18" high
White
100/cs
MD, LG, XL



#### **Shoe cover**

#### IC451SWHXX01000B

Serged seams Elastic opening Gripper™ sole 5" high White 100/cs MD, LG, XL



#### Shoe cover

#### IC461SWHXX03000B

Serged seams Elastic opening PVC sole Elastic toe 5" high White 300/cs SM, MD, LG, XL



#### **PART NUMBER GUIDE**

IC	253	В	WH	LG	0025	CS
Fabr type	Garment design	Seam type	Color	Size	Case count	Options

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.

## DUPONT™ TYVEK® MICRO-CLEAN® 2-1-2



NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### Coverall

#### CC252BBUXX00250S CC252BBUXX0025PI

Bound seams Bound neck with loop at center back Dolman sleeve Covered elastic wrist, ankle Zipper closure Blue SM, MD, LG, XL, 2X, 3X, 4X, 5X



#### **DUPONT™ TYVEK®** MICRO-CLEAN® 2-1-2

- Made from DuPont<sup>™</sup> Tyvek<sup>®</sup> brand flashspun polyolefin protective material
- Coated on both sides with proprietary 2-1-2 blue polymeric resin
- Antistatic treated
- Garments available gamma sterilized to an SAL of 10-6
- Traceability on all sterilized apparel

#### **CHOOSE FROM THESE OPTIONS:**

- **0S** = Sterile: individually packaged and sterilized by gamma irradiation
- PI = Individually packaged in an opaque bag

# **DUPONT™ SURESTEP™/DUPONT™ DURA-TRAC™**

NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.

Shoe Cover: PE440S

#### **Boot cover**

#### PE444SWHXX010000

Serged seams Elastic opening Elastic ankle 13" height White 100/cs LG. XL

Blue



#### Shoe cover

#### PE440SWHXX020000 PE440SBUXX020000

Serged seams Elastic opening 5.5" height White, blue 200/cs MD, LG, XL MD only available in whité & bulk packaged



## **DUPONT** SURESTEP // **DUPONT™ DURA-TRAC™**

- Spunbonded polypropylene with polyethylene film coating
- Slip resistance—both wet and dry

#### **CHOOSE FROM THESE OPTIONS:**

• 00 or 0B = Bulk packaged





## **DUPONT™ TYVEK® PLUS**



NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### Coverall (oo only)

## TY198TWHXX0025YY

Serged and over-taped seams Self-adhesive chin flap Elastic face, wrist and ankle Elastic thumb loops White 25/cs SM, MD, LG, XL, 2X, 3X, 4X, 5X, 6X, 7X

#### **TYVEK® PLUS**

Tyvek® Plus garments are composed of flashspun high-density polyethylene which creates a unique, non-woven material available only from DuPont. Tyvek® Plus Type 4/5/6 coveralls offer the following safety and comfort benefits:

- Chemical protective clothing, Category III, Type 4-B, 5-B and 6-B
- Protection against infective agents (EN 14126) including resistance to penetration by blood and body fluids using synthetic blood (ISO 16603)
- Fabric and seams offer chemical permeation barrier to low concentration water-based inorganic chemicals

#### **PART NUMBER GUIDE**

IC	253	В	WH	LG	0025	CS
Fabric type	Garment design	Seam type	Color	Size	Case count	Options

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.

# **DUPONT™ PROCLEAN®**

NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### Coverall PC143SWHXX00250B

Serged seams Bound neck Set sleeve Covered elastic wrist, ankle

Zipper closure **Enclosed elastic** at back White 25/cs

SM, MD, LG, XL, 2X, 3X, 4X

#### PC500SWHXX02000B

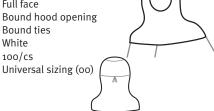
Serged seams Covered elastic wrist, bicep 18" length White 200/cs Universal sizing (oo)



#### Hood

#### PC663SWHXX01000B

Serged seams Full face Bound hood opening Bound ties White 100/cs



#### **Frock**

## PC271SWHXX00300B

Serged seams Bound neck Set sleeve Covered elastic wrist Zipper closure White 30/cs SM, MD, LG, XL, 2X, 3X, 4X



#### **DUPONT™ PROCLEAN®**

• Microporous composite fabric

Coverall:

PC143

- Non-hazardous liquid and dry particulate barrier protection for cleanroom applications
- Serged seams

#### **OPTION:**

• **0B** = Bulk packaged

#### Frock

#### PC270SWHXX00300B

Serged seams Bound neck Set sleeve Covered elastic wrist Snaps (5) White 30/cs SM, MD, LG, XL, 2X, 3X, 4X



#### **Boot cover**

#### PC444SWHXX01000B

Serged seams Covered elastic opening Elastic ankle PVC sole 18" height White 100/cs MD, LG, XL



#### **PART NUMBER GUIDE**

IC	253	В	WH	LG	0025	CS
Fabric type	Garment design	Seam type	Color	Size	Case count	Options

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.

## **DUPONT™ SIERRA™**

Mask: ML7360

Controlled environment mask

ML7360WHXX0250BH ML7360WHXX02500S

9" size Bound Tyvek® ties Pleated Rayon outer facing Metal nose piece White 250/cs Universal sizing (oo)



#### Anti-fog mask

NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### ML7370WHXX0250BH

9" size Bound Tyvek® ties Pleated Rayon outer facing Metal nose piece Adhesive at nose White 250/cs Universal sizing (oo)



#### **Anti-fog mask**

#### ML7300WHXX02500S

7" size Bound Tyvek® ties Pleated Rayon outer facing Metal nose piece Adhesive at nose White 250/cs Universal sizing (oo)



#### General mask

#### ML7330BUXX0500BH

7" size Stretch ear loops Pleated Polypropylene outer facing Metal nose piece Blue 300 & 500/cs Universal sizing (oo)



#### **DUPONT™ SIERRA™**

- Provides balance of bacteria and particle filtration efficiency and breathability
- 7" and 9" sizes available
- Blue and white masks available

#### **CHOOSE FROM THESE OPTIONS:**

- **0S** = Sterile: individually packaged and sterilized by gamma irradiation
- BH = 50/bag

#### **PART NUMBER GUIDE**

IC	253	В	WH	LG	0025	CS
Fabric type	Garment design	Seam type	Color	Size	Case count	Options

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.

## **DUPONT™ GENERAL-PURPOSE PRODUCTS**

NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.



## TY273BWHXX010000

Bound seams Bound neck Ties closure Tyvek® ties at waist White 100/cs Universal sizing (oo)



## QC500BYLXX02000B

Bound seams Tunneled elastic wrist Tychem® QC 18" length Yellow 200/cs Universal sizing (oo)



#### **Sleeve**

#### DE500SBUXX01000S

Serged seams Covered elastic wrist, bicep Hydroentangled polyester and cellulose 18" length Blue 100/cs Universal sizing (oo)



#### Cleanroom face veil

#### PP7400WHXX0150BH Stainless steel snaps

Metal nose piece White 150/cs

Universal sizing (oo)



#### Apron: TY273B

#### Cleanroom face veil

#### PP7410WHXX0150BH

Elastic head band Metal nose piece White 150/cs Universal sizing (oo)



#### **PART NUMBER GUIDE**

IC	253	В	WH	LG	0025	CS
Fabric type	Garment design	Seam type	Color	Size	Case count	Options

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.



Mask: **AT7505-P** 

NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### Bouffant

3274

24" elastic opening Blue 750/cs LG

#### **Bouffant**

9303

Latex free 24" elastic opening White, blue 250/cs

#### **Beard cover**

9216

Opening: approximately 18" stretched Elastic: approximately 13" stretched Latex free White 250/cs

#### Mask

AT7505-P

Polypropylene inner and outer facing Pleated Blue 300/cs with ties 7"

#### Mask

AT7511

Polypropylene outer and inner facing Ear loops Pleated Blue 300/cs 7"

**NOTE:** Please substitute your size for XX when ordering. See p. 31 for full part number description.



## 23502T MD 23503T LG 23504T XL 23505T 2X 23506T 3X Unisex Short sleeve

V-neck

Blue 6o/cs

Pockets (2 front)

Scrub pant
23602PE
MD
23603PE
LG
23604PE
XL
23605PE
2X
23606PE
3X
Latex free elastic
Unisex
Pocket (1 back right)
Blue
60/cs



Astound® sterile gown: 9545

#### Astound® sterile gown

Blue LG

#### Astound° sterile gown

9545 Blue XL

#### **Isolation** gown

#### 1100PG

Sewn seams

Isolation gown with full back

Ties at neck

Waist belt

Elastic cuff

Yellow

100/cs

Universal (oo)

#### **Cover gown**

#### 9841

Non-sterile standard back down

Polyester cuff

Raglan sleeve

25/cs

LG

#### **Cover gown**

#### 9482N

Non-sterile standard back down

Raglan sleeve

Polyester cuff

25/cs

XL

#### Lab coat

#### 2201LC

MD, 39" length

#### 2202LC

LG, 41" length

#### 2203LC

XL, 43" length

**2204LC** 2X, 45" length

Traditional collar Snap front

Knit cuffs

Pockets (3)

Blue

25/cs

#### Lab coat

**2301LC** MD, 39" length

#### 2302LC

LG, 41" length

**2303LC** XL, 43" length

25/cs

**2304LC** 2X, 45" length

Traditional collar Snap front Knit cuffs 39" length Pockets (3) White

NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.



Sleeve: 599

#### Sleeve

599 Single sleeve Elastic wrist, bicep 21.5" length Individually packaged Blue 60/cs

#### Shoe cover

#### 4875

2X

Fluid-resistant Skid-resistant Latex free Available with or without skid-resistant tread Blue 400/cs

#### **Medical wrap**

4008

4012

4024

4030

4036

Basis weight 1.2 ounces/square yard Bulk packed within a single transparent Blue

## **DUPONT™ PROSHIELD® BASIC**

Lab coat: PB219S

NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### Lab coat

#### PB219SBUXX00300B PB219SWHXX00300B

Serged seams Knit collar Set sleeve Knit cuff Snap closure (6 + 1 adjustable) Pockets (1 left chest pencil, 2 lower front) White, blue 30/cs SM, MD, LG, XL, 2X, 3X, 4X



#### Frock

#### PB267SWHXX00300B

Serged seams Mandarin collar Set sleeve Knit cuff Enclosed elastic wrist Snap closure (6 + 1 adjustable) 30/cs SM, MD, LG, XL, 2X, 3X, 4X



#### **DUPONT™ PROSHIELD® BASIC**

- Made from polypropylene SMS fabric
- Fabric resists non-hazardous dry particle penetration
- Air permeability helps keep wearer comfortable
- Serged seams
- Available in blue and white

#### **OPTION:**

• 0B = Bulk packaged

#### **PART NUMBER GUIDE**

IC	253	В	WH	LG	0025	CS
Fabric type	Garment design	Seam type	Color	Size	Case count	Options

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.

WARNING: ProShield® Basic should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Garments made of ProShield® Basic fabric should have slip-resistant or anti-slip materials on the outer surface of boots, shoe covers, or other garment surfaces in conditions where slipping could occur.

## **DUPONT™ TYCHEM® QC**



#### TYCHEM® QC

- Light liquid splash protection
- Used extensively in the petroleum; pulp and paper; food and chemical processing; and pharmaceutical industries
- Tychem® QC is polyethylene-coated Tyvek® fabric
- Flexible, durable and lightweight
- Tychem® QC provides at least 30 minutes of protection against >40 chemical challenges
- When used with masks and gloves, can help reduce the risk of cross-contamination in pandemic preparedness activities

**NOTE:** Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### Coverall

#### QC122BYLXX001200

Bound seams Attached hood Front zipper closure Storm flap with tape closure Elastic wrist Attached socks<sup>1</sup> MD, LG, XL, 2X, 3X, 4X, 5X, 6X



#### Coverall

#### QC127BYLXX001200

Bound seams Attached hood Front zipper closure Storm flap Elastic wrist Elastic ankle SM, MD, LG, XL, 2X, 3X, 4X, 5X, 6X, 7X



#### Coverall

#### QC127SYLXX001200

Attached hood Front zipper closure Elastic wrist Elastic ankle SM, MD, LG, XL, 2X, 3X, 4X, 5X, 6X, 7X



#### Coverall

#### QC120SYLXX001200 Collar

Front zipper closure SM, MD, LG, XL, 2X, 3X, 4X, 5X, 6X, 7X



#### **PART NUMBER GUIDE**

IC		253	В	WH	LG	0025	CS
Fab type	-	Garment design	Seam type	Color	Size	Case count	Options

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.

<sup>1</sup>These Tychem<sup>8</sup> 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.

# **DUPONT™ TYCHEM® QC**

#### Coverall

#### QC125SYLXX001200

Collar Front zipper closure Elastic wrist Elastic ankle MD, LG, XL, 2X, 3X, 4X, 5X, 6X, 7X



## Coverall QC125BYLXX001200

Collar Front zipper closure Storm flap with tape closure Elastic wrist Elastic ankle SM, MD, LG, XL, 2X, 3X, 4X, 5X, 6X



#### Apro

**NOTE:** Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### QC278BYLXX001200

Bound seams
Bound yoke neck without snaps
Sleeved apron
Waist ties
Elastic wrist
52" long



#### Coverall

#### QC122SYLXX001200

Attached hood Front zipper closure Elastic wrist Attached socks<sup>1</sup> SM, MD, LG, XL, 2X, 3X, 4X, 5X, 6X, 7X only available in yellow bulk packaged



#### **Apron**

#### QC275BYLXX002500

Bound seams Waist ties Elastic opening Knee length apron/gown Open back 44" long



#### **PART NUMBER GUIDE**

IC	253	В	WH	LG	0025	CS
Fabric type	Garment design	Seam type	Color	Size	Case count	Options

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.

<sup>1</sup>These Tychem<sup>8</sup> 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.

## **DUPONT™ TYCHEM® SL**



#### **TYCHEM® SL**

- Effective protection against a range of chemicals
- Rugged and durable
- Tychem® SL is white for high visibility
- Tychem SL provides at least 30 minutes of protection against >120 chemical challenges
- When used with masks and gloves, can help reduce the risk of cross-contamination in pandemic preparedness activities

NOTE: Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### Coverall

#### SL127TWHXX000600

Taped seams
Attached hood
Front zipper closure
Storm flap with tape closure
Elastic wrist
Elastic ankle
SM, MD, LG, XL, 2X, 3X,
4X, 5X, 6X, 7X



#### Coverall

#### SL122BWHXX001200

#### Bound seams SL122TWHXX000600

Taped seams
Attached hood
Front zipper closure
Storm flap with tape closure
Elastic wrist
Attached socks¹
SM, MD, LG, XL, 2X, 3X, 4X, 5X, 6X, 7X



#### Coverall

#### SL125BWHXX001200

Bound seams
Collar
Front zipper closure
Storm flap with tape closure
Elastic wrist
Elastic ankle
SM, MD, LG, XL, 2X, 3X,
4X, 5X, 6X for oo option
SM, MD, LG, XL, 2X, 3X,
4X for Pl option



#### Apron

#### SL278BWHXX001200

Bound seams
Bound yoke neck without snaps
Attached long sleeves
Waist ties
Elastic wrist
52" long
Universal (00)



#### Apron

#### SL275TWHXX002500

Taped seams Raw edge neck with snaps Attached long sleeves Waist ties Elastic wrist 44" long SM-4X



## PART NUMBER GUIDE

IC	253	<b>3</b>   1	В	WH	LG	0025	CS
Fabric type	Garn desi		Seam type	Color	Size	Case count	Options

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.

'These 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.

## **DUPONT™ TYCHEM® THERMOPRO**



Apron: TP284TOR

**NOTE:** Please substitute your size for XX when ordering. See p. 31 for full part number description.

#### Apron

TP284TORXX000400 TP284TGYXX000400

Taped seam Sleeveless apron Waist strap Orange, gray 4/cs SM, MD, LG, XL, 2X, 3X, 4X

#### TYCHEM® THERMOPRO

- Provides triple hazard protection from chemicals, flash fire and electric arc, combining the trusted chemical protection of DuPont™ Tychem® with the flame and arc flash protection of DuPont™ Nomex® into a single garment
- Constructed for heavy use, yet lightweight and easy to wear
- Tychem® ThermoPro provides at least 30 minutes of protection against >180 chemical challenges

#### **PART NUMBER GUIDE**

IC	253	В	WH	LG	0025	CS
Fabric type	Garment design	Seam type	Color	Size	Case count	Options

NOTE: All sizes not available in all styles. For universal sizing use oo in the part number. Seams and closures have less barrier than fabric.

## **HOW TO INTERPRET DUPONT PRODUCT PART NUMBERS**

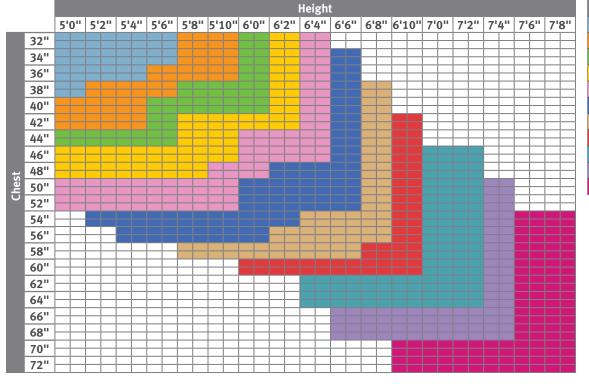
#### IC253BWHLG0025CS

Our "smart" part numbers are not just a random collection of characters. Each component of the 16-character DuPont part number has meaning. When combined, these components provide a wealth of important product information, as shown here.

IC	253	В	WH	LG	0025	CS
Fabric type The first two characters are the fabric description.  Abbreviations SL Tychem* SL TP Tychem* ThermoPro TY Tyvek* IC IsoClean* GE General Environment PC ProClean* CC Tyvek* Micro-Clean* 2-1-2 PE SureStep* DT Dura-Trac* PP Polypropylene ML Sierra* Mask QC Tychem* QC DE Hydroentangled Polyester & Cellulose 99 Accessory	Garment design  DuPont offers a wide array of garment styles— from hoods to frocks and coveralls. Each garment style has a unique three-digit code.	The final character in the base number denotes the seam construction of the garment.  Abbreviations B bound S serged o no seam T taped	Color Several DuPont fabrics are available in color options; refer to catalog descriptions for details.  Abbreviations WH white BU blue YL yellow OR orange GY gray	Many DuPont garments are available in a range of sizes; refer to catalog descriptions for details.  Abbreviations SM small MD medium LG large XL extra large 2X 2 extra large 3X 3 extra large 4X 4 extra large 4X 4 extra large 5X 5 extra large 6X 6 extra large 7X 7 extra large 8X 8 extra large 8X 8 extra large 8X 8 extra large 90 universal sizing	Case count Provides the number of garments per case; refer to catalog descriptions for details.	Options For example, oS designates sterilized and PI designates individually packaged. Not all option codes are available for all products; refer to catalog descriptions for details.  Abbreviations CS clean & sterile oS sterile oC clean-processed PI individually packaged oB bulk oo bulk BB 50/box BH 50/bag

#### SIZING CHART FOR DUPONT CONTROLLED ENVIRONMENTS GARMENTS

Use this chart to determine what size garment is right for you. Sizes are based on an individual's height and chest size.



**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.

Tyvek® Plus contains 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.

DuPont production specifications for Gripper" PVC exclude use of latex. Notwithstanding, DuPont cannot guarantee the absence of latex in these shoe or boot covers. Anyone who begins to exhibit 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.

**SILICONE STATEMENT:** In the past, DuPont has found that threads and zippers can be the most significant source of silicone oil contamination in garments. DuPont specifies that threads and zippers used in Tyvek® IsoClean®, and ProClean® garments be manufactured without the use of silicone oils. Notwithstanding, DuPont cannot guarantee the absence of silicone oils on these garments.

For end users with concerns about contamination with silicone oils or any other contaminants, the best practice is to audit inbound materials, including garments for those contaminants.

This information is based upon technical data that DuPont believes reliable. It is subject to revision as additional knowledge and experience are gained. DuPont makes no guarantee of results and assumes no obligation or liability in connection with this information. It is the user's responsibility to determine the level of toxicity 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 the 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 may provide less barrier than the fabric. If the fabric becomes torn, abraded or punctured, end user should discontinue use of garment to avoid compromising the barrier protection. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE 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, trademark or technical information of DuPont or others covering any material or its use.

1) DuPont garments and accessories for controlled environments 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® should have slip-resistant or antislip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

For DuPont Controlled Environments apparel and accessories, visit safespec.dupont.com

