WHY DUPONT CONTROLLED ENVIRONMENTS?

BECAUSE you want to do everything you can to improve productivity and reduce risk in your controlled environment.

At DuPont, we understand the cleanroom environment and continue to provide innovation and new offerings that can help ensure your controlled environment is as clean and efficient as possible. That means solutions to help you reduce the risk of contaminants in your operations—contaminants that can damage your final product quality, introduce the risk of non-compliance into your operations, and reduce your productivity.

With DuPont Controlled Environments, you get the advantage of a wide range of proven, science-based solutions that help ensure superior protection for your business critical systems, equipment, production process and personnel.

If your industry standards call for sterility and/or cleanliness in pharmaceutical, biotechnology, electronics or medical device environments, our limited-use apparel lines are designed to fit your needs.

And now, with the addition of the DuPont ™ Tyvek® Micro-Clean® and other new garment and accessory lines, DuPont has an extensive portfolio of garments and accessories available to help you ensure a clean, controlled environment. In this catalog, you will find current product and ordering information for these new DuPont Controlled Environments products.

DuPont offers state-of-the-art apparel manufacturing for environments where sterility and cleanliness are critical. From our ISO-registered facility to clean-processing, packaging and sterilization, DuPont products stand for high quality.

If you have any questions, you can contact a DuPont Controlled Environments specialist by calling 1-800-931-3456 (Monday through Friday, 8:30 a.m. to 5:30 p.m., Eastern Standard Time). These industry specialists are more than happy to help you with cleanroom apparel evaluation, suggest educational programs and discuss a variety of contamination control issues. You can also visit the Controlled Environments portion of our web site at www.ControlledEnvironments.DuPont.com.

DUPONT SERVICE COMMITMENT AND STOCKING PROGRAM

DuPont is committed to providing service-level excellence to all of our customers. This commitment includes a renewed focus on customer service, on-time delivery, sales/technical support and immediate access to product information. To help ensure the fastest delivery of products you need most, DuPont also offers an expanded stocking program. Details are provided on our web site at www.PersonalProtection.DuPont.com.

* Be advised that certain garments contained in this catalog description are subject to U.S. Export Control laws. Purchasing these garments subjects your company to those laws for export. For more information, contact us as 1-800-931-3456.
CONTROLLED ENVIRONMENTS GARMENTS AND ACCESSORIES

Sterile
Tyvek® Micro-Clean® 4
Tyvek® Micro-Clean® 2-1-2 5
Tyvek® Micro-Clean® Essentials 6
Tyvek® 6

Non-Sterile
Tyvek® Micro-Clean® 2-1-2 7
Tyvek® Micro-Clean® 2-1-2 Opti-Soft™ 8
Tyvek® Micro-Clean® Essentials 9
Tyvek® general use garments 10–11
Dura-Trac™ shoe covers 12
Optimax™ FT 12

Gown Specifications 13

Sizing Chart 14

Sterile Apparel Packaging Process 15

Sterile, Clean and Bulk Overview 16
• Unique, patented flash spinning process creates an excellent barrier to dry particles, microorganisms, and non-hazardous liquids
• Sterility assurance level of $10^{-6}$
• Cloth-like aesthetics
• Designed for consistent quality
• Full traceability
• Individually packaged with an outer bag and two inner poly liners to provide tri-level protection
coverall
69831-69833 30/cs
69834-69835 25/cs
69836-69837 29/cs
bound seams
tunneled elastic
packaged under class 100 cleanroom conditions
elastic wrist and ankle cuffs
SM–4X

TYVEK® MICRO-CLEAN®
2-1-2 — STERILE
• Made from DuPont™ Tyvek® protective fabric
• Coated with proprietary 2-1-2 polyamide coating for reduced particle shedding (not clean-processed)
• Antistatic treated
• Sterility assurance level of $10^{-6}$
• Cloth-like aesthetics
• Full traceability
• Individually packaged with an outer bag and a single poly liner to provide dual level protection
TYVEK® MICROCLEAN® ESSENTIALS — STERILE

- Unique, patented flash spinning process creates an excellent barrier to dry particles, microorganisms, and non-hazardous liquids
- Antistatic treated
- Sterility assurance level of 10^-6
- Cloth-like aesthetics
- Full traceability
- Individually packaged with an outer bag and two inner poly liners to provide tri-level protection
- Not clean-processed

sterile coverall
59851-59857 sterile 30/cs
bound seams
tunneled elastic
packaged under class 100 cleanroom conditions
SM–4X

sterile hood
59817 sterile 125/cs
bound seams
packaged under class 100 cleanroom conditions
one size fits all

TYVEK® STERILE GARMENTS

- Unique, patented flash spinning process creates an excellent barrier to dry particles, microorganisms, and non-hazardous liquids
- Antistatic treated
- Full traceability
- Not clean-processed
- Individually packaged with an outer bag and a single poly liner to provide dual level protection

premier frock with snaps
A6085-31S to A6085-36S, sterile 25/cs
raglan sleeves
generous cut
bound seams
tunneled elastic cuffs
high tab collar with comfortable adjustable closing
SM–4X
DuPont™ Tyvek® Micro-Clean® 2-1-2

TYVEK® MICRO-CLEAN®
2-1-2
• Made using DuPont™ Tyvek® protective fabric
• Coated with proprietary 2-1-2 polyamide coating for reduced particle shedding (not clean-processed)
• Antistatic treated
• Outstanding particle filtration efficiency
• Cloth-like aesthetics
• Full traceability
• Individually packaged with outer bag and inner poly liner

coverall
69230-69233, 30/cs
69234-69235, 25/cs
69236-69237, 29/cs
bound seams
tunneled elastic
packaged under class 100 cleanroom conditions
elastic wrist and ankle cuffs
XS–4X

bouffant cap
69215, 280/cs
22” diameter for full coverage
tunneled elastic
packaged under class 100 cleanroom conditions
one size fits all

shoe cover
69222-69226, 150/cs
extends 18” up the leg
elastic band at top
ties around ankles
serged seams
tunneled elastic
skid-resistant PVC soles
packaged under class 100 cleanroom conditions
XS–XL

trench
69240-69241, 50/cs
69242-69244, 40/cs
A-line design
everal cuffs
reach below the knee
bound seams
tunneled elastic
packaged under class 100 cleanroom conditions
high neck
seven snaps
SM–2XL

hood
69217 open-face hood, 125/cs
69214 full-protection hood, eye openings only, 125/cs
bound seams
adjustable ties
packaged under class 100 cleanroom conditions
one size fits all

sleeve
588, 100/cs
18” length
bound seams
tunneled elastic
packaged under class 100 cleanroom conditions

shoe cover
69222-69226, 150/cs
extends 18” up the leg
elastic band at top
ties around ankles
serged seams
tunneled elastic
skid-resistant PVC soles
packaged under class 100 cleanroom conditions
XS–XL

cuff tape
A6128-20, 400/cs
sterile or non-sterile versions
not clean-processed
Tyvek® or polyethylene film construction
20” length
3” width
DuPont™ Tyvek® Micro-Clean® 2-1-2 Opti-Soft™

**TYVEK® MICRO-CLEAN® 2-1-2 OPTI-SOFT™**

- Made from DuPont™ Tyvek® brand protective material
- Coated with proprietary 2-1-2 polyamide coating for reduced particle shedding
- Anti-static treatment
- Noticeably softer and more comfortable
- Full traceability
- Individually packaged with an outer bag and a single poly liner to provide dual level protection

**coverall**

<table>
<thead>
<tr>
<th>SKU</th>
<th>Description</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>39231-39233</td>
<td>30/cs</td>
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</tr>
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<td>39234-39235</td>
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<tr>
<td>39236</td>
<td>29/cs</td>
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- Bound seams
- Tunneled elastic
- Laundered
- Packaged under class 10 cleanroom conditions

**SM–2X**

**hood**

<table>
<thead>
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<th>SKU</th>
<th>Description</th>
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<tbody>
<tr>
<td>39217</td>
<td>125/cs</td>
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</table>

- Soft and comfortable
- Adjustable ties
- Bound seams
- Laundered
- Packaged under class 10 cleanroom conditions
- One size fits all
**DuPont™ Tyvek® Micro-Clean® Essentials**

**coverall**
- 79851-79857 30/cs
- bound seams
- tunneled elastic
- clean-processed
- packaged under class 10 cleanroom conditions
- SM–4X

**high top shoe cover**
- 79823-79826 150/cs
- bound seams
- tunneled elastic
- packaged under class 100 cleanroom conditions
- SM–XL

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**TYVEK® MICRO-CLEAN® ESSENTIALS**

- Unique, patented flash spinning process creates an excellent barrier to dry particles, microorganisms, and non-hazardous liquids
- Cloth-like aesthetics
- Full traceability
- Individually packaged with an outer bag and two inner poly liners

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## TYVEK® GENERAL PURPOSE GARMENTS AND ACCESSORIES

- Unique, patented flash spinning process creates an excellent barrier to dry particles, microorganisms, and non-hazardous liquids
- Antistatic treated
- Full traceability

### coverall

- **9365-9371** basic, 25/cs
- **93715** basic 5XL, 25/cs
- **9375-9379** premier, 25/cs
- **93793-93794** premier, 3XL and 4XL, 25/cs

Available in two styles:
- Basic style has set in sleeves and elastic cuff
- Premier style has raglan sleeves, bound collar and generous cut

Full length zippers
Serged seams
Elastic wrist and ankle cuffs

### basic frock with snaps

- **9335-9347**, 25/cs

Full length
Set-in sleeves
Serged seams
High tab collar with comfortable adjustable closing

### premier frock with snaps

- **9390-9396**, 25/cs

Full length
Raglan sleeves
Generous cut
Serged seams
High tab collar with comfortable adjustable closing

### frock with zipper

- **9380-9384**, 25/cs

Full length zipper
Raglan sleeves
Elastic cuffs
Below-the-knee length
Serged seams

### hood

- **9312**, 125/cs

String-style ties
One size fits all

### bouffant cap

- **9210**, 250/cs

Elastic headband
22” diameter (58.4 cm)
One size fits all

### shoe cover

- **9320A** low-top shoe cover (S), 150 pr/cs
- **9321-9323** low-top shoe cover, 150 pr/cs
- **9314-9316** high-top shoe cover, 150 pr/cs
- **93161** high-top shoe cover (XL), 150 pr/cs

Low and high-top versions
Elastic secured

### shoe cover

- **9320A** low-top shoe cover (S), 150 pr/cs
- **9321-9323** low-top shoe cover, 150 pr/cs
- **9314-9316** high-top shoe cover, 150 pr/cs
- **93161** high-top shoe cover (XL), 150 pr/cs

Low and high-top versions
Elastic secured

SM–XL
sleeve

9402 sleeve, 300/cs
9403N sleeve, 60/cs
double-stitched, reinforced seams
elastic at both ends
one size fits all

lab coat

9330-9334, 25/cs
two side pockets
pencil pocket
snap closures
XM–ZXL

wrap-around smock

9340-9343, 25/cs
extra-long wrap around waist belt
side slits
elastic cuffs
pencil pocket
two side pockets
SM–XL

bib apron

9319N, 50/cs
knee length
long ties in the back
one size fits all
DuPont™ Dura-Trac™ Shoe Covers

DURA-TRAC™ SHOE COVERS
- Spunbonded polypropylene with polyethylene extrusion coating
- Skid-resistant surface helps prevent accidents in wet or dry conditions

DuPont™ Optimax™ FT

OPTIMAX™ FT
- For manufacturing and research applications where the premium protection of DuPont™ Tyvek® is not needed
- Microfiber composite fabric
- Improved barrier protection and comfort
- Bulk packed in double poly bags

coverall
99361-99367, 25/cs
zipper front
elastic back, wrists and ankles
laydown collar
SM–4XL

frock
99351-99356, 25/cs
snap front
elastic wrist
adjustable Mandarin collar
SM–3XL

lab coat
99331-99336, 25/cs
snap front
three pockets
tapered wrists
laydown collar
SM–3XL

shoe cover
9326-9327, 150 pr/cs
skid resistant
lint resistant
available in Universal and XL sizes

shoe cover
9321-9324, 100 pr/cs
elastic top
skid-resistant PVC sole
above-the-ankle coverage
SM–XL

OPTIMAX™ FT
- For manufacturing and research applications where the premium protection of DuPont™ Tyvek® is not needed
- Microfiber composite fabric
- Improved barrier protection and comfort
- Bulk packed in double poly bags
Gown Specifications

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.

Welded or NSR
A sealed seam produced when materials are lapped and thermally welded. There are no fillers, thread or needle holes.

Tunneled elastic
Fabric sewn tightly together to provide a secure closure.

ISO 16644-1 AIR CLEANLINESS CLASSES FOR CLEANROOMS AND CLEAN ZONES

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MINIMUM GOWNING REQUIREMENTS

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<tr>
<th>ISO Class 8 (Class 100,000)</th>
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<th>ISO Class 6 (Class 1,000)</th>
<th>ISO Class 5 (Class 100)</th>
<th>ISO Class 4 (Class 10)</th>
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<tbody>
<tr>
<td>Hair cover</td>
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<td>Hood</td>
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<td>Frock</td>
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<tr>
<td>Coverall</td>
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<td>Shoe covers</td>
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<tr>
<td>Boots</td>
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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 weight.

Coverall Sizing Chart

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<th>Height</th>
<th>5'0&quot;</th>
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Shoe Covers Sizing Chart

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<td>Large</td>
<td>Large</td>
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Sterile Apparel Packaging Process

CRITICAL ASSURANCE STERILE APPAREL MULTI-LEVEL PACKAGING

1. Outer shipping carton is securely sealed. Carton displays product label, sterile dot indicator and fully traceable lot number.

2. Multilevel interior packaging features one or two polyethylene carton liners secured with twist ties. The outer liner provides protection from dust and contamination, particularly if outer carton is discarded. A lot-specific Certificate of Conformance is placed between the two liners. The inner liner allows transportation of product to a cleaner, more controlled environment.

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

4. Sterile garment consistently folded and packaged to ease aseptic donning. Traceable lot numbers are stamped on each individual sterile garment.
MANY GARMENTS AND ACCESSORIES ARE AVAILABLE WITH STERILE OR CLEAN OPTIONS, AS DESCRIBED BELOW.

Sterile
Many DuPont™ Tyvek® and Tyvek® Micro-Clean® garments and accessories are available with sterile options. Sterile garments and accessories are gamma-sterilized to achieve a sterility assurance level of $10^{-6}$.

Sterile garments may or may not be clean-processed.

Sterility is based on ANSI/AAMI/ISO 11137 sterilization of health care products—radiation.

Clean
Clean-processed
Many DuPont™ Tyvek® Micro-Clean® and Tyvek® Micro-Clean® Essentials garments and accessories are also clean-processed. Clean-processed garments and accessories provide the best performance of particle shedding.

2-1-2 coated
Tyvek® Micro-Clean® 2-1-2 garments and accessories use unique 2-1-2 polyamide coating instead of clean-processing to achieve reduction in particle shedding and linting. The 2-1-2 polyamide coating retains garment and accessory anti-static properties.

Laundered
Tyvek® Micro-Clean® 2-1-2 Opti-Soft™ garments are laundered with anti stat to create a fabric that is noticeably softer.

Bulk/General Purpose
Bulk and general purpose garments are not clean-processed, 2-1-2 coated or sterile, but may be suitable for secondary areas of controlled environments.
NATURAL RUBBER LATEX
As of January 1, 2006 all Tyvek® IsoClean®, Suprel® LS and ProClean® garments are manufactured under specifications that exclude components containing natural rubber latex. DuPont® Tyvek® Micro-Clean®, Micro-Clean® Essentials, Micro-Clean® 2-1-2, Micro-Clean® 2-1-2 Opti-Soft®, General Purpose and DuPont® Optimax® FT garments, formerly produced by Cardinal Health, may contain dry crumb natural rubber latex. 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 OILS
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®, Suprel® LS and ProClean® garments be manufactured without the use of silicone oils. DuPont cannot guarantee the absence of silicone oils on these garments. DuPont® Tyvek® Micro-Clean®, Micro-Clean® Essentials, Micro-Clean® 2-1-2, Micro-Clean® 2-1-2 Opti-Soft®, General Purpose and DuPont® Optimax® FT garments, formerly produced by Cardinal Health, have no silicone oil prohibition in their component specifications.

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 to be reliable. It is subject to revision as additional knowledge and experience are gained. DuPont makes no guarantee of results and assumes no obligations 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 their specific end-use conditions, at their own discretion and risk.

Anyone intending to use this information should first verify that the garment selected is suitable for the intended use. In many cases, seams and closures have shorter breakthrough times and higher permeation rates than the fabric. If fabric becomes torn, abraded or punctured, end user should discontinue use of garment to avoid compromising the barrier protection.

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WARNINGS:
1) Tyvek®, Dura-Trac®, Micro-Clean®, Optimax®, Opti-Soft®, and Ti-Select® are not flame-resistant and should not be used around heat, flame, sparks or potentially flammable or explosive environments.
2) Garments made of Tyvek®, Dura-Trac®, Micro-Clean®, Optimax®, Opti-Soft®, and Ti-Select® 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.

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