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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® Tyvek® garments have a long history of use in cleanrooms due to their excellent barrier to particles, microorganisms and non-hazardous liquids. They are comfortable, durable and available in many styles for different cleanroom and controlled environment applications.

With the DuPont Controlled Environments offering, you get the advantage of a wide range of proven, science-based solutions that help keep your cleanroom environment protected.
**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 using continuous fibers of high-density polyethylene that are randomly distributed and non-directional.

- Tyvek® is tough, yet extremely lightweight and soft.
- Tyvek® offers a balance of protection, durability and comfort.
- Tyvek® acts as a breathable barrier against particles and bacteria.
- Tyvek® repels water-based liquids and liquid aerosols.
- Tyvek® is inherently low linting and has excellent abrasion resistance.
- There is a Tyvek® manufacturing facility in the USA.

**THE SUPERIORITY OF 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 cross-contamination 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.

**DUPLONT 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 $10^{-6}$. Irradiation 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 13485:2003 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® IsoClean® 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.
SELECTING CLEANROOM GARMENTS
Not all cleanrooms are created equal, nor are all cleanroom garments. The design of the cleanroom and the activities performed there will greatly influence the requirements of the cleanroom garment needed for a specific application.

People can be a major source of particle contamination (see Table I). The ability of cleanroom clothing to minimize particle contamination is dependent on the properties of the fabric used to construct the garments. Factors to consider include: filtration capability, durability, cleanliness, electrostatic dissipation and liquid barrier, which are described here.

Table I.
Particle generation through people movement

<table>
<thead>
<tr>
<th>Type of people movement</th>
<th>Particles/min. (&gt;0.5 µm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sitting without moving</td>
<td>100,000</td>
</tr>
<tr>
<td>Moving hands, arms, head</td>
<td>500,000</td>
</tr>
<tr>
<td>Active hand/arm movement; fast turning of the head</td>
<td>1,000,000</td>
</tr>
<tr>
<td>Standing up from a sitting position or vice-versa</td>
<td>2,500,000</td>
</tr>
<tr>
<td>Rapid movement; climbing stairs, etc.</td>
<td>10,000,000</td>
</tr>
</tbody>
</table>

Source: Encyclopedia of Cleanrooms, Bio-cleanrooms, and Aseptic Areas by Philip R. Austin, 2000, Contamination Control Seminars.

Filtration Capability
The primary function of cleanroom clothing is to act as a filter between the wearer and the environment to reduce the particle load generated by the wearer that is released into the environment. Particle and bacterial filtration efficiency tests measure the fabric’s ability to act as a barrier to particle release. Tests vary in the size of particles used in the challenge, the flow rate of air through the fabric and the presence or absence of charge on the challenge particles.

Particle Filtration Efficiency
(IEST-RP-CC003.3) – Measures the ability of the fabric to filter out particles from room air over a range of particle sizes. Higher percentages indicate higher particle barrier.

Bacterial Filtration Efficiency
(ASTM F2101) – Measures the ability of the fabric to filter out bacteria (*staphylococcus aureus*) from a controlled aerosol challenge.

Latex Particle Challenge
(ASTM F2299) – Measures the ability of the fabric to filter out latex spheres of a specified size from an aerosol challenge. Higher percentages indicate higher particle barrier.

Durability
Cleanroom clothing should be durable enough to maintain its intended barrier during use throughout the expected life of the garment; therefore, resistance to ripping and tearing is important. Durability can be measured by Mullen Burst Strength, Trapezoidal Tear and Grab Tear tests.

Mullen Burst Strength
(ASTM D774) – Measures the pressure necessary to cause a rupture in a fabric sample clamped to an inflatable diaphragm.

Trapezoidal Tear (or Trap Tear)
(ASTM D5733-99, IST 100.2) – Measures the force needed to propagate a tear in the fabric in a stretching (elongational) action. Higher numbers indicate better tear propagation resistance.

Grab Tear
(ASTM D5034) – Measures the breaking strength of a fabric when it is pulled in opposite directions.
Cleanliness (Particle Generation)
Cleanroom clothing should be made of materials that are low in lint and particle generation. A garment’s particle shedding level can be measured using the Helmke Drum.

Particle Shedding (Helmke Drum Test)
(IEST-TP-CC003.3) – Measures particle shedding from a garment or accessory being tumbled in a small drum. Results are reported by category; the category requirements for coveralls are shown in Table II.

The test is intended to be run on full garments, but some types of garments will not tumble properly in the drum due to stiffness, size or other factors. Testing on fabric swatches or cut garments may not be an accurate predictor of full garment performance due to edge effects.

Table II.
Category requirements for cleanroom coveralls

<table>
<thead>
<tr>
<th>Category</th>
<th>Garment Type</th>
<th>Particle emission rate (particles/min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0.3 µm and larger</td>
</tr>
<tr>
<td>I</td>
<td>Coverall</td>
<td>&lt;2,000</td>
</tr>
<tr>
<td>II</td>
<td>Coverall</td>
<td>2,000 – 20,000</td>
</tr>
<tr>
<td>III</td>
<td>Coverall</td>
<td>20,000 – 200,000</td>
</tr>
</tbody>
</table>

Liquid Barrier
In some wet processing applications, liquid barrier is desirable to keep the worker dry and comfortable. A fabric’s ability to prevent water penetration can be measured with a hydrostatic head (Hydrohead) test.

Hydrostatic Head (Hydrohead)
(ASTM D751-00, AATCC 127, IST 80.6-01) – Measures the water pressure the fabric can withstand before leakage occurs. Results are reported as a column height of water (cm). Higher numbers indicate better penetration resistance.

Note: For protection from hazardous or infectious liquids, additional barrier tests are required to establish suitability for use.

Electrostatic Dissipation
In some environments, static dissipation can be necessary to protect equipment. In order for any garment system to be static dissipative, it must be able to drain a charge buildup through proper grounding devices, such as workstation grounding clips or static-dissipative floors.

Surface Resistivity
(ASTM D257-99) – Measures the resistance to the flow of electrical charge across the surface of an insulating material. It is calculated by multiplying the surface resistance by a geometric factor to standardize for electrode and sample dimensions.

Note: Tyvek® garments are not flame resistant and should not be used in potentially flammable or explosive environments.
DUPONT™ TYVEK® ISO CLEAN® 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 linting and particle shedding of any garments in the DuPont portfolio.

Tyvek® IsoClean® bulk 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® IsoClean® garments, see p. 18 of this catalog.

ISO 4/5 Controlled Environments

- Tyvek® IsoClean® clean and sterile bouffant (IC7295WH000250CS)
- Tyvek® IsoClean® clean and sterile hood (IC668BWH000100CS)
- Controlled Environment sterile face mask (ML7360WH0002500S)
- Tyvek® IsoClean® clean and sterile coverall (IC253BWH000250CS)
- Garments folded to facilitate aseptic donning
- Tyvek® IsoClean® sterile cuff tape (994790WH0004000S)
- Bound seam garments offer better particle barrier than serged seams.
- Tyvek® IsoClean® clean and sterile boot cover (IC458BWH000100CS)
- Elastic wrists and ankles are covered by garment materials so the elastic is not exposed.
- Gripper® soles offer a higher level of slip resistance than standard PVC soles.

ISO 7/8 Controlled Environments

- Tyvek® IsoClean® bouffant (IC7295WH0002500B)
- Tyvek® IsoClean® frock with snaps (IC270BWH0003000) or Tyvek® IsoClean® frock with zipper (IC264SWH0003000B)
- Tyvek® IsoClean® shoe cover with Gripper® sole (IC451SWH0001000B)
Properties of DuPont™ Tyvek® IsoClean®

DuPont™ Tyvek® IsoClean® garments are superior in terms of all of the physical properties that contribute to the quality of cleanroom garments, as shown in Tables III and IV below.

Table III. Typical Physical Properties* of DuPont™ IsoClean® Clean-Processed

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Units</th>
<th>Tyvek® IsoClean® Clean-Processed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basis Weight</td>
<td>ASTM D3776</td>
<td>oz/yd²</td>
<td>1.3</td>
</tr>
<tr>
<td>Thickness</td>
<td>ASTM D1777</td>
<td>mils</td>
<td>5.0</td>
</tr>
<tr>
<td>Bacterial Filtration Efficiency (3.0 µm)</td>
<td>ASTM F2101</td>
<td>%</td>
<td>98.4</td>
</tr>
<tr>
<td>Particle Filtration Efficiency (0.5 µm)</td>
<td>ASTM F2299**</td>
<td>%</td>
<td>96.0</td>
</tr>
<tr>
<td>Particle Filtration Efficiency (&gt;0.5 µm)</td>
<td>IEST-RP-CC003.3</td>
<td>%</td>
<td>76.7</td>
</tr>
<tr>
<td>Grab Tensile, MD</td>
<td>ASTM D5034</td>
<td>lb₉</td>
<td>19.3</td>
</tr>
<tr>
<td>Grab Tensile, CD</td>
<td>ASTM D5034</td>
<td>lb₉</td>
<td>22.0</td>
</tr>
<tr>
<td>Mullen Burst</td>
<td>ASTM D774</td>
<td>psi</td>
<td>55.0</td>
</tr>
<tr>
<td>Hydrostatic Head</td>
<td>AATCC TM127</td>
<td>cm H₂O</td>
<td>82.3</td>
</tr>
<tr>
<td>Surface Resistivity (55% RH)</td>
<td>ASTM D257</td>
<td>ohms</td>
<td>1.0 x 10¹²</td>
</tr>
<tr>
<td>Flammability</td>
<td>16 CFR 1610</td>
<td>—</td>
<td>Class 1</td>
</tr>
</tbody>
</table>

*These properties are typical for garments that have not been sterilized. Sterilization may affect strength, water barrier and static dissipation.

**Particles not neutralized.

MD = Machine direction    CD = Cross direction

Table IV. Typical Physical Properties of DuPont™ IsoClean® Bulk

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>Units</th>
<th>Tyvek® IsoClean® Bulk</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basis Weight</td>
<td>ASTM D3776</td>
<td>oz/yd²</td>
<td>1.2</td>
</tr>
<tr>
<td>Thickness</td>
<td>ASTM D1777</td>
<td>mils</td>
<td>5.4</td>
</tr>
<tr>
<td>Bacterial Filtration Efficiency (3.0 µm)</td>
<td>ASTM F2101</td>
<td>%</td>
<td>99.0</td>
</tr>
<tr>
<td>Grab Tensile, MD</td>
<td>ASTM D5034</td>
<td>lb₉</td>
<td>18.0</td>
</tr>
<tr>
<td>Grab Tensile, CD</td>
<td>ASTM D5034</td>
<td>lb₉</td>
<td>25.5</td>
</tr>
<tr>
<td>Mullen Burst</td>
<td>ASTM D774</td>
<td>psi</td>
<td>48.0</td>
</tr>
<tr>
<td>Hydrostatic Head</td>
<td>AATCC TM127</td>
<td>cm H₂O</td>
<td>100.0</td>
</tr>
<tr>
<td>Surface Resistivity (55% RH)</td>
<td>ASTM D257</td>
<td>ohms</td>
<td>6.3 x 10⁹</td>
</tr>
<tr>
<td>Flammability</td>
<td>16 CFR 1610</td>
<td>—</td>
<td>Class 1</td>
</tr>
</tbody>
</table>

MD = Machine direction    CD = Cross direction
Garment processing and packaging options

STERILE

Clean-processed and sterile (option code CS)
Garments are specially processed to minimize particle shedding, then folded for 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. Irradiation dosage is validated in accordance with ISO 11137 for a Sterility Assurance Level (SAL) of $10^{-6}$.

Sterile (option code 0S)
Garments are folded for aseptic donning and individually packaged. The case quantity is packaged in a cardboard case with two polyethylene liners. Some sterile items are folded and individually packaged in an ISO Class 5 cleanroom (see garment data sheet). Sterility is achieved by gamma irradiation. Irradiation dosage is validated in accordance with ISO 11137 for a Sterility Assurance Level (SAL) of $10^{-6}$.

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.

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

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 Compliance with sterile dot indicator 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 opaque bag 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.
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.

### DuPont Controlled Environments Garments
**DuPont**® IsoClean®, Micro-Clean® 2-1-2, **DuPont**® General Environment and ProClean®

<table>
<thead>
<tr>
<th>Environments/Hazards</th>
<th>DuPont® Tyvek® IsoClean® Clean-Processed</th>
<th>DuPont® Tyvek® IsoClean® Bulk</th>
<th>DuPont® Tyvek® Micro-Clean® 2-1-2</th>
<th>DuPont® General Environment</th>
<th>DuPont® ProClean®</th>
<th>Considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO Class 5 Aseptic Cleanrooms (Former FED-STD-209E; Class 100)</td>
<td>![Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
</tr>
<tr>
<td>ISO Class 6, 7, and B Bioburden Control Areas (Former FED-STD-209E; Class 1000, 10,000 and 100,000)</td>
<td>![Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
</tr>
<tr>
<td>ISO Class 6, 7, and B Cleanrooms (Former FED-STD-209E; Class 1000, 10,000 and 100,000)</td>
<td>![Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
</tr>
<tr>
<td>Non-hazardous, dry particles</td>
<td>![Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
</tr>
<tr>
<td>Non-hazardous, light liquid splash</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
</tr>
<tr>
<td>Hazardous powders Notice: DuPont Controlled Environments garments should not be used in potentially explosive or flammable environments</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
</tr>
<tr>
<td>Electric arc, industrial fire hazard, welding</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
<td>![Non-Sterile]</td>
</tr>
</tbody>
</table>

*Barrier properties may be compromised through use. ![Best] ![Better] ![Good] ![Blank] Not recommended*
# Fabric Performance Features

<table>
<thead>
<tr>
<th>Fabric</th>
<th>Available Sterile</th>
<th>Particle Barrier</th>
<th>Non-Hazardous Liquid Barrier</th>
<th>Comfort</th>
<th>Durability</th>
<th>Static Dissipation†</th>
<th>Particle Shedding</th>
<th>Strengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>DuPont™ Tyvek® IsoClean® Flashspun polyolefin, clean-processed</td>
<td>Yes</td>
<td>●</td>
<td>•</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Best combination of comfort, protection and durability</td>
</tr>
<tr>
<td>DuPont™ Tyvek® IsoClean® Flashspun polyolefin, bulk</td>
<td>Yes</td>
<td>●</td>
<td>•</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>DuPont™ Tyvek® Micro-Clean® 2-1-2 Flashspun polyolefin</td>
<td>Yes</td>
<td>●</td>
<td>•</td>
<td>●</td>
<td>●</td>
<td>●**</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>DuPont™ General Environment</td>
<td>No</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Comfort</td>
</tr>
<tr>
<td>DuPont™ ProClean® Microporous Films</td>
<td>No</td>
<td>●*</td>
<td>●*</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>Effective liquid barrier, low cost</td>
</tr>
</tbody>
</table>

*Barrier properties may be compromised through use.
**Antistatic performance may be reduced for sterile products.
† Nuisance static.
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.

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

<table>
<thead>
<tr>
<th>ISO Classification Number</th>
<th>0.1 µm</th>
<th>0.2 µm</th>
<th>0.3 µm</th>
<th>0.5 µm</th>
<th>1.0 µm</th>
<th>5.0 µm</th>
<th>SI</th>
<th>SI FED-STD-209E</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO Class 1</td>
<td>10</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISO Class 2</td>
<td>100</td>
<td>24</td>
<td>10</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISO Class 3</td>
<td>1000</td>
<td>237</td>
<td>102</td>
<td>35</td>
<td>8</td>
<td></td>
<td>M 1.5</td>
<td>1</td>
</tr>
<tr>
<td>ISO Class 4</td>
<td>10000</td>
<td>2370</td>
<td>1020</td>
<td>352</td>
<td>83</td>
<td></td>
<td>M 2.5</td>
<td>10</td>
</tr>
<tr>
<td>ISO Class 5</td>
<td>100000</td>
<td>23700</td>
<td>10200</td>
<td>3520</td>
<td>832</td>
<td>29</td>
<td>M 3.5</td>
<td>100</td>
</tr>
<tr>
<td>ISO Class 6</td>
<td>1000000</td>
<td>237000</td>
<td>102000</td>
<td>35200</td>
<td>8320</td>
<td>293</td>
<td>M 4.5</td>
<td>1000</td>
</tr>
<tr>
<td>ISO Class 7</td>
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<td>83200</td>
<td>2930</td>
<td>35200</td>
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<td>29300</td>
<td>M 5.5</td>
<td>10000</td>
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<td>832000</td>
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<td>832000</td>
<td>293000</td>
<td>M 6.5</td>
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<tr>
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<td>832000</td>
<td>293000</td>
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### MINIMUM GOWNING RECOMMENDATIONS

<table>
<thead>
<tr>
<th>ISO Class 8 (Class 100,000)</th>
<th>ISO Class 7 (Class 10,000)</th>
<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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</thead>
<tbody>
<tr>
<td>Hair cover</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Hood</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Face mask</td>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Frock</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Shoe covers</td>
<td>•</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boots</td>
<td>•</td>
<td>•</td>
<td>•</td>
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</tbody>
</table>

IEST-RP-CC003.3
THE DUPONT CONTROLLED ENVIRONMENTS GARMENT PORTFOLIO

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

COVERALLS—WITHOUT HOOD

STERILE

**clean**
- Tyvek IsoClean IC182 IC253 p. 18
- Tyvek IsoClean IC254 IC253 p. 18
- Tyvek Micro-Clean 2-1-2 CC252 CC252 p. 23

**individual packages**

NON-S TERILE

**clean**
- Tyvek IsoClean IC181 IC182 IC253 IC258 p. 18
- Tyvek IsoClean IC180 IC253 IC258 p. 18
- ProClean PC122 PC143 p. 22
- Tyvek Micro-Clean 2-1-2 CC252 CC252 p. 23

**bulk**

**individual packages**

COVERALLS—HOODED

STERILE

**clean**
- Tyvek IsoClean IC105 IC105 p. 18

NON-S TERILE

**clean**
- Tyvek IsoClean IC105 IC105 p. 18
- Tyvek IsoClean IC105 IC105 p. 18
- ProClean PC122 PC122 p. 22

**bulk**
# How to select the right garments

## FROCKS & LAB COATS

<table>
<thead>
<tr>
<th></th>
<th>STERILE</th>
<th>NON-Sterile</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>clean</strong></td>
<td><strong>individual packages</strong></td>
<td></td>
</tr>
<tr>
<td>Tyvek® IsoClean®</td>
<td>IC270 p. 19</td>
<td></td>
</tr>
<tr>
<td>Tyvek® IsoClean®</td>
<td>IC262 p. 19</td>
<td></td>
</tr>
<tr>
<td><strong>bulk</strong></td>
<td><strong>clean</strong></td>
<td></td>
</tr>
<tr>
<td>Tyvek® IsoClean®</td>
<td>IC224 p. 19</td>
<td></td>
</tr>
<tr>
<td>Tyvek® IsoClean®</td>
<td>IC262 p. 19</td>
<td></td>
</tr>
<tr>
<td>Tyvek® IsoClean®</td>
<td>IC263 p. 19</td>
<td></td>
</tr>
<tr>
<td>Tyvek® IsoClean®</td>
<td>IC270 p. 19</td>
<td></td>
</tr>
<tr>
<td>General Environment</td>
<td>GE219 p. 21</td>
<td></td>
</tr>
<tr>
<td>General Environment</td>
<td>GE267 p. 21</td>
<td></td>
</tr>
<tr>
<td>ProClean®</td>
<td>PC270 p. 22</td>
<td></td>
</tr>
<tr>
<td>ProClean®</td>
<td>PC271 p. 22</td>
<td></td>
</tr>
</tbody>
</table>

## APRONS, GOWNS & SMOCKS

<table>
<thead>
<tr>
<th></th>
<th>STERILE</th>
<th>NON-Sterile</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>bulk</strong></td>
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<tr>
<td>Tyvek® IsoClean®</td>
<td>IC226 p. 19</td>
<td></td>
</tr>
<tr>
<td>Tyvek® IsoClean®</td>
<td>IC701 p. 19</td>
<td></td>
</tr>
<tr>
<td><strong>gen. purpose</strong></td>
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<td></td>
</tr>
<tr>
<td>Tyvek® IsoClean®</td>
<td>ML730 p. 24</td>
<td></td>
</tr>
<tr>
<td>Sierra™ ML736</td>
<td>p. 24</td>
<td></td>
</tr>
<tr>
<td>Sierra™ ML737</td>
<td>p. 24</td>
<td></td>
</tr>
</tbody>
</table>

## MASKS & FACE VEILS

<table>
<thead>
<tr>
<th></th>
<th>STERILE</th>
<th>NON-Sterile</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>individual packages</strong></td>
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</tr>
<tr>
<td>Tyvek® IsoClean®</td>
<td>IC271 p. 19</td>
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</tr>
<tr>
<td>Tyvek® IsoClean®</td>
<td>IC731 p. 24</td>
<td></td>
</tr>
<tr>
<td>Sierra™ ML730</td>
<td>p. 24</td>
<td></td>
</tr>
<tr>
<td>Sierra™ ML731</td>
<td>p. 24</td>
<td></td>
</tr>
<tr>
<td>Sierra™ ML732</td>
<td>p. 24</td>
<td></td>
</tr>
<tr>
<td>Sierra™ ML733</td>
<td>p. 24</td>
<td></td>
</tr>
<tr>
<td>Sierra™ ML736</td>
<td>p. 24</td>
<td></td>
</tr>
<tr>
<td>Sierra™ ML737</td>
<td>p. 24</td>
<td></td>
</tr>
<tr>
<td>Sierra™ ML739</td>
<td>p. 24</td>
<td></td>
</tr>
<tr>
<td>Sierra™ ML740</td>
<td>p. 25</td>
<td></td>
</tr>
<tr>
<td>Sierra™ ML741</td>
<td>p. 25</td>
<td></td>
</tr>
</tbody>
</table>

---

[How to select the right garments](#)
How to interpret 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.

<table>
<thead>
<tr>
<th>IC</th>
<th>253</th>
<th>B</th>
<th>WH</th>
<th>LG</th>
<th>0025</th>
<th>CS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fabric type</td>
<td>The first two characters are the fabric description.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abbreviations</td>
<td>TY = Tyvek®</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>IC = IsoClean®</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>GE = General Environment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PC = ProClean®</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CC = Tyvek® Micro-Clean® 2-1-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PE = SureStep™</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DT = Dura-Trac™</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>PP = Polypropylene</td>
<td></td>
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<tr>
<td></td>
<td>ML = Sierra™ Mask</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>QC = Tychem® QC</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DE = Hydroentangled Polyester &amp; Cellulose</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>99 = Accessory</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garment design</td>
<td>DuPont offers a wide array of garment styles—from hoods to frocks and coveralls. Each garment style has a unique three-digit code.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abbreviations</td>
<td>B = bound</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>S = serged</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F = fell</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0 = no seam</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Color</td>
<td>Several DuPont fabrics are available in color options; refer to catalog descriptions for details.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Abbreviations</td>
<td>WH = white</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>BU = blue</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>YL = yellow</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Size</td>
<td>Many DuPont garments are available in a range of sizes; refer to catalog descriptions for details.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Abbreviations</td>
<td>SM = small</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MD = medium</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LG = large</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>XL = extra large</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>2X = 2 extra large</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3X = 3 extra large</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>4X = 4 extra large</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>5X = 5 extra large</td>
<td></td>
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<tr>
<td></td>
<td>6X = 6 extra large</td>
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</tr>
<tr>
<td></td>
<td>7X = 7 extra large</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8X = 8 extra large</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>00 = universal sizing</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Case count</td>
<td>Provides the number of garments per case; refer to catalog descriptions for details.</td>
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<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Options</td>
<td>For example, 0S designates sterilized and PI designates individually packaged. Not all option codes are available for all products; refer to catalog descriptions for details.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abbreviations</td>
<td>CS = Clean &amp; Sterile</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>0S = Sterile</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0C = Clean-Processed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PI = Individually Packaged</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0b = Bulk</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>00 = Bulk</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>BB = 50/box</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>BH = 50/bag</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CT = Conductive Strip</td>
<td></td>
<td></td>
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</tbody>
</table>

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.
**DuPont™ Tyvek® IsoClean®**

- Made from DuPont™ Tyvek® brand flashspun polyolefin protective material
- Unique, patented flash-spinning process creates an excellent 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 $10^{-6}$
- Serged or bound seams with covered elastic options
- Bound seam garments offer highest particle barrier within DuPont product portfolio
- Full traceability on all sterilized apparel
- Gripper™ soles offer a higher level of slip resistance than standard PVC soles

### CHOOSE FROM THESE OPTIONS:

- **CS** = Clean and Sterile: clean-processed, individually packaged and sterilized by gamma irradiation
- **OS** = Sterile: individually packaged and sterilized by gamma irradiation
- **OC** = Clean: clean-processed, individually packaged
- **00** or **OB** = Bulk packaged
- **PI** = Individually packaged in an opaque bag

---

### PART NUMBER GUIDE

<table>
<thead>
<tr>
<th>IC</th>
<th>253</th>
<th>B</th>
<th>WH</th>
<th>LG</th>
<th>0025</th>
<th>CS</th>
</tr>
</thead>
<tbody>
<tr>
<td>fabric type</td>
<td>garment design</td>
<td>seam type</td>
<td>color</td>
<td>size</td>
<td>case count</td>
<td>options</td>
</tr>
</tbody>
</table>

**NOTE:** Please substitute your size for ## when ordering. See p. 17 for full part number description.

**WARNING:** Cleanroom apparel should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Cleanroom fabrics should have slip-resistant materials on the outer sole of boots, shoe covers or other garment surfaces in conditions where slipping could occur.
NOTE: Please substitute your size for ## when ordering. See p. 17 for full part number description.

### Coveralls
- **IC100SWH##002500**
  - **PART NUMBER GUIDE**
  - Serger seams
  - Standard hood
  - Elastic hood opening
  - Set sleeve
  - Zipper closure
  - White
  - 25/cs
  - MD, LG, XL, 2X, 3X

### Frock
- **IC270BWH##003000**
- **IC270BWH##00300C**
- **IC270BWH##0030CS**
  - **PART NUMBER GUIDE**
  - Serger seams
  - Bound seams
  - Bound neck
  - Set sleeve
  - Covered elastic wrist
  - Snap closure (6 + 1 adjustable)
  - White
  - 30/cs
  - SM, MD, LG, XL, 2X, 3X, 4X, 5X, 6X, 7X

### Lab Coat
- **IC224SWH##00300B**
- **IC224SWH##00300S**
- **IC224SWH##0030CS**
  - **PART NUMBER GUIDE**
  - Serger seams
  - Laydown collar
  - Raglan sleeve
  - Snap closure (5)
  - Pockets (1 chest pencil, 2 lower front)
  - White
  - 30/cs
  - SM, MD, LG, XL, 2X

### Gown
- **IC701SWH##003000**
- **PART NUMBER GUIDE**
  - Serger seams
  - Bound neck with ties
  - Knit cuff
  - Bound ties originating at center front waist
  - White
  - 30/cs
  - Universal sizing (00)

### Smock
- **IC225SWH##00300B**
- **IC225SWH##00300S**
- **IC225SWH##0030CS**
  - **PART NUMBER GUIDE**
  - Serger seams
  - Bound neck
  - Set sleeve
  - Elastic wrist
  - Wrap around (ties at waist)
  - Front waist pockets (1 chest pencil, 2 lower front)
  - White
  - 30/cs
  - SM, MD, LG, XL

### Hood
- **IC668BWH##01000B**
- **IC668BWH##01000C**
- **IC668BWH##01000S**
- **IC668BWH##0100CS**
  - **PART NUMBER GUIDE**
  - Bound seams
  - Full face opening
  - Bound hood opening
  - Ties with loops for fit
  - White
  - 100/cs
  - Universal sizing (00)

### Sleeves
- **IC501BWH##01000B**
- **IC501BWH##01000C**
- **IC501BWH##01000S**
  - **PART NUMBER GUIDE**
  - Bound seams
  - Covered elastic wrist, bicep
  - 18" length
  - White
  - 100/cs
  - Universal sizing (00)

### Bouffant
- **IC725SWH##02500B**
- **IC725SWH##02500C**
- **IC725SWH##02500S**
  - **PART NUMBER GUIDE**
  - Serger seams
  - Elastic headband
  - 21.5" diameter
  - White
  - 250/cs
  - Universal sizing (00)

### NOTE:
- All sizes not available in all styles. For universal sizing use 00 in the part number.
- Seams and closures have less barrier than fabric.
- WARNING: Cleanroom apparel should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Cleanroom fabrics should have slip-resistant materials on the outer sole of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

PART NUMBER GUIDE

<table>
<thead>
<tr>
<th>IC</th>
<th>253</th>
<th>B</th>
<th>WH</th>
<th>LG</th>
<th>0025</th>
<th>CS</th>
</tr>
</thead>
</table>

- **IC 253 B 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 00 in the part number.

Seams and closures have less barrier than fabric.

- **WARNING:** Cleanroom apparel should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Cleanroom fabrics should have slip-resistant materials on the outer sole of boots, shoe covers or other garment surfaces in conditions where slipping could occur.
NOTE: Please substitute your size for ## when ordering. See p. 17 for full part number description.

coverall
GE181SWH#00250B
GE181SBU#00250B
serged seams
laydown collar
set sleeve
elastic wrist, ankle
zipper closure
white, blue
25/cs
SM, MD, LG, XL, 2X, 3X, 4X

GE181SBU#00300B
GE219SWH#00300B
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

lab coat
GE219SBU#00300B
GE219SWH#00300B
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

DuPont™ General Environment
• Made from polypropylene SMS fabric
• Fabric resists non-hazardous dry particle penetration
• Air permeability helps keep wearer comfortable
• Antistatic treated
• Serged seams
• Available in blue and white

OPTION:
• OB = Bulk packaged

PART NUMBER GUIDE

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NOTE: All sizes not available in all styles. For universal sizing use 00 in the part number.
Seams and closures have less barrier than fabric.

WARNING: Cleanroom apparel should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Cleanroom fabrics should have slip-resistant materials on the outer sole of boots, shoe covers or other garment surfaces in conditions where slipping could occur.
NOTE: Please substitute your size for ## when ordering. See p. 17 for full part number description.

coverall
PC143S WH#00250B
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

coverall
PC122S WH#00250B
serged seams
attached hood
covered elastic gusset with
bound face opening
set sleeve
covered elastic wrist, ankle
zipper closure
enclosed elastic at back
attached boots with
slip-resistant covers
white
25/cs
SM, MD, LG, XL, 2X, 3X, 4X

frock
PC270S WH#00300B
serged seams
bound neck
set sleeve
covered elastic wrist
snaps (5)
white
30/cs
SM, MD, LG, XL, 2X, 3X, 4X

frock
PC271S WH#00300B
serged seams
bound neck
set sleeve
covered elastic wrist
zipper closure
white
30/cs
SM, MD, LG, XL, 2X, 3X, 4X

sleeve
PC500S WH#02000B
serged seams
covered elastic wrist, bicep
18” length
white
200/cs
universal sizing (00)

hood
PC663S WH#01000S
serged seams
full face
bound hood opening
bound ties
white
100/cs
universal sizing (00)

boot cover
PC444S WH#01000B
serged seams
covered elastic opening
elastic ankle
PVC sole
18” height
white
100/cs
MD, LG, XL

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**DuPont™ Tyvek® Micro-Clean® 2-1-2**

- **Coverall**: CC252B
  - Bound seams
  - Bound neck with loop at center back
  - Dolman sleeve
  - Covered elastic wrist, ankle
  - Zipper closure
  - Blue
  - 25/cs
  - SM, MD, LG, XL, 2X, 3X, 4X, 5X

**NOTE:** Please substitute your size for ## when ordering. See p. 17 for full part number description.

**Boot Cover**: PE444SWH##010000
- Serged seams
- Elastic opening
- Elastic ankle
- 13" height
- White
- 100/cs
- LG, XL

**Shoe Cover**: PE440S
- Serged seams
- Elastic opening
- Elastic toe, heel
- 6.5" height
- Blue
- 300/cs
- LG, XL

**Shoe Cover**: PE440SBU##03000B
- Serged seams with heat seal
- Elastic opening
- Elastic toe, heel
- 6.5" height
- Blue
- 300/cs
- LG, XL

**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)

**NOTE:** All sizes not available in all styles. For universal sizing use 00 in the part number.

**Seams and closures have less barrier than fabric.**

**WARNING:** Cleanroom apparel should not be used around heat, flames, sparks or in potentially flammable or explosive environments. Cleanroom fabrics should have slip-resistant materials on the outer sole of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

**DuPont™ SureStep™/DuPont™ Dura-Trac™**

- Spunbonded polypropylene with polyethylene film coating
- High slip resistance—both wet and dry
- Low linting
- SureStep™ available with a conductive strip

**Choose from these options:**
  - **0S** = Sterile; individually packaged and sterilized by gamma irradiation
  - **PI** = Individually packaged in opaque bag

**Choose from these options:**
  - **00, 0B** = Bulk packaged
  - **CT** = Conductive strip

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**Contact Information**
- US: 1.800.931.3456
- Canada: 1.800.387.9326
- Mexico: 01800.849.75.14
**DuPont™ Sierra™**

- Excellent balance of bacteria and particle filtration efficiency and breathability
- Available in 7” and 9” sizes
- Available in blue and white

**CHOOSE FROM THESE OPTIONS:**
- **0S** = Sterile: individually packaged and sterilized by gamma irradiation
- **BB** = 50/box
- **BH** = 50/bag

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### PART NUMBER GUIDE

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**NOTE:** For universal sizing use 00 in the part number.

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**General-purpose products**

**NOTE:** Please substitute your size for ## when ordering. See p. 17 for full part number description.

**apron**
TY273BWH##010000
- bound seams
- bound neck
- ties closure
- Tyvek* ties at waist
- white
- 100/cs
- universal sizing (00)

**sleeve**
QC500BYL##012000B
- bound seams
- tunnel elastic wrist
- Tyvek* QC
- 21" length
- yellow
- 200/cs
- universal sizing (00)

**sleeve**
DE500SBU##01000S
- serged seams
- covered elastic wrist and bicep
- hydroentangled polyester and cellulose
- 18" length
- blue
- 100/cs
- universal sizing (00)

**cleanroom face veil**
PP7400WH##0150BH
- stainless steel snaps
- metal nose piece
- white
- 150/cs
- universal sizing (00)

**cleanroom face veil**
PP7410WH##0150BH
- elastic head band
- metal nose piece
- white
- 150/cs
- universal sizing (00)

**part number guide**

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![Man wearing an apron](image)

[DuPont™ Sierra™]

**DUPONT® SONTARA® MICRO-LEVEL CLEANING WIPES**

DuPont® Sontara® micro-level cleaning fabrics are high-performance, absorbent wipes for cleanrooms. Because they are made using the DuPont hydroentangling process, where needle-like water jets form a strong, nonwoven fabric without any binders, these fabrics are ideally suited for cleanroom use.

DuPont® Sontara® micro-level cleaning fabrics have low particle generation and are inherently absorbent. With low extractables and ion content properties, as well as strength and resistance to solvents, wipes made of DuPont® Sontara® are a good solution for your cleanroom requirements.

Wiping needs and required levels of cleanliness differ—even in the same cleanroom—therefore, DuPont created a range of Sontara® micro-level cleaning fabrics. It's best to find a match between application and the wipe fabric for efficiency and cost effectiveness. To determine which Sontara® micro-level cleaning fabric best meets your controlled environment application, visit www.Sontara.com or call 1.888.4.Sontara (1.888.476.6827).
Supply and Distribution
With global manufacturing sites and a vast network of the top national and regional distributors in the scientific markets, DuPont Controlled Environments offers an uninterrupted, continuous supply of validated sterile garments. These distributors are experts in supply chain management and offer you flexibility and consistency with a global reach.

You can work with the DuPont authorized distributor of your choice. For a list of authorized distributors of DuPont garments for Controlled Environments, please visit www.ControlledEnvironments.DuPont.com

Service and Support
DuPont is committed to providing service 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.

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). We are more than happy to help you with your cleanroom apparel evaluation and discuss a variety of contamination control issues. You can also visit our website at www.ControlledEnvironments.DuPont.com

Please 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 at 1.800.931.3456.

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®, General Environment and ProClean® garments be manufactured without the use of silicone oils. Notwithstanding, DuPont cannot guarantee the absence of silicone oils on these garments nor can DuPont confirm silicone oil prohibition in DuPont™ Tyvek® Micro-Clean® 2-1-2 produced by Cardinal Health prior to May 2008.

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.

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, and 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.

WARNINGS: 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.