



Automotive

## Personal Protective Equipment (PPE) for the Electric Vehicle Manufacturing Industry

Brought To You by DuPont | Mar 01, 2024

Workers in the electric vehicle manufacturing industry face many on-the-job hazards, including slick, oily surfaces; hazardous chemicals; exposure to dust, solvents and paint spray; and flame and electric arc hazards — to name just a few.

Battery pack production is a major activity unique to electric vehicle manufacturing that poses significant risk for chemical contact exposures. Additionally, battery handling may require the need for flame-resistant or arc flash protective clothing.

DuPont offers a wide range of protective clothing—from low protection to high—that addresses the needs of manufacturing workers. With DuPont protective apparel, employers can enjoy peace of mind knowing that their workers are protected from a variety of hazards so that they can perform at their best.

Additionally, the manufacture of electric vehicles requires contamination control at many stages of the process, as products and processes need to be kept free of particles generated by humans and clothing. DuPont offers low-linting protective apparel options to help keep products and processes safe from particle contamination.

### Customer support—we're here to help

#### SafeSPEC™







DuPont's powerful web-based tool can assist you with finding the appropriate DuPont garment for a particular chemical hazard. The DuPont™ SafeSPEC™ app is also available for mobile use.

#### Certified Industrial Hygienist team

A DuPont Certified Industrial Hygienist can conduct a job hazard assessment to help you determine the best DuPont garment for a specific hazard.

#### Request a sample

See the value of DuPont™ Tyvek®, DuPont™ Tychem® and DuPont™ ProShield® for electric vehicle manufacturing applications firsthand. Contact DuPont Personal Protection Customer Service at 1-800-931-3456 to request a sample garment.

| DuPont options**                                                                                                                                                                                                                                                                                                                                                      | Dirty jobs             | Hazardous particles                             | Contamination control               | Liquid chemical splash                                        | Secondary flame resistance | Primary flame resistance | Electric arc flash                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------|-------------------------------------|---------------------------------------------------------------|----------------------------|--------------------------|---------------------------------------------------------|
| Tasks                                                                                                                                                                                                                                                                                                                                                                 | Maintenance & cleaning | Dry mixing<br>Cell assembly<br>Vehicle assembly | Slurry preparation<br>Cell assembly | Slurry preparation<br>Cell assembly<br>Maintenance & cleaning | Emergency response         | Emergency response       | Cell assembly<br>Vehicle assembly<br>Emergency response |
|  <p><b>ProShield® 6 SFR TM127SBU<sup>1</sup></b><br/>Cost effective cover to protect reusable FR garments while also protecting from non hazardous particles and aerosols</p>                                                                                                        | ✓                      |                                                 |                                     |                                                               | ✓                          |                          |                                                         |
|  <p><b>ProShield® 60 NG122SWH<sup>2</sup></b><br/>Offers a barrier against non hazardous particles, light liquid splash, and aerosols</p>                                                                                                                                            | ✓                      | ✓                                               |                                     |                                                               |                            |                          |                                                         |
|  <p><b>Tyvek® 400 TY122SWH<sup>2</sup></b><br/>An ideal balance of protection, durability and comfort, offering a barrier against hazardous particulates and light liquid splash</p>                                                                                                 | ✓                      | ✓                                               |                                     |                                                               |                            |                          |                                                         |
|  <p><b>Tyvek® IsoClean® IC253BWH</b><br/>Inherent barrier to particles that is also breathable and exceptionally low linting; clean processed options are available</p>                                                                                                             |                        |                                                 | ✓                                   | ✓                                                             |                            |                          |                                                         |
|  <p><b>Tyvek® 500 HV TY125SHV<sup>2</sup></b><br/>Bright fluorescent orange color background material combined with silver gray retroreflective material make the garment highly visible during the day and at night (when exposed to a light source) ANSI/ISEA 107 certified.</p> | ✓                      | ✓                                               |                                     |                                                               |                            |                          |                                                         |
|  <p><b>Tyvek® 600 TY198TWH</b><br/>The durability and comfort of Tyvek® with taped seams and chemical permeation barrier to low concentration water-based inorganic chemicals</p>                                                                                                  |                        |                                                 | ✓                                   |                                                               | ✓                          |                          |                                                         |

Comparison within the DuPont portfolio: ✓ Acceptable for use  
(Blank) Not recommended

continued

\* More garment styles available.

\*\*Please see last page for additional information.

| DuPont options** | Dirty jobs             | Hazardous particles                             | Contamination control               | Liquid chemical splash                                        | Secondary flame resistance | Primary flame resistance | Electric arc flash                                      |
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**Tyvek® 800 TJ198TWH<sup>2</sup>**  
Ideal for situations that require protection from liquid spray, even in pressurized jet form; The taped seams provide additional splash resistance



**Tychem® 2000 QC127TYL<sup>2</sup>**  
Flexible, durable and lightweight protection from >40 chemical challenges



**Tychem® 2000 SFR QS127TGR<sup>1</sup>**  
Chemical and secondary flame protection in a lightweight garment



**Tychem® 4000 SL127TWH<sup>2</sup>**  
Rugged and durable fabric provides protection against >120 chemical challenges



Comparison within the DuPont portfolio: ✓ Acceptable for use  
(Blank) Not recommended

continued

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**Tychem® 6000 TF145TGY™**  
Strong and durable with a broad chemical barrier and protection against >180 chemical challenges



**Tychem® 6000 FR TP198TOR™**  
Helps provide triple-hazard protection from chemicals, flash fire and electric arc; TP198T and TP199T are certified to NFPA 1992



Comparison within the DuPont portfolio: ✓ Acceptable for use  
(Blank) Not recommended

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***Previously Featured on DuPont's website.***

***Browse MSCDirect.com to see DuPont's line of PPE to keep workers safe on the job.***

**[www.mscdirect.com/betterMRO](http://www.mscdirect.com/betterMRO)**

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