Protective solutions for automotive industry applications
Because everyone has someone depending on them to get home safely

DuPont is more focused than ever on providing innovative protection solutions and expert technical support, tailored to meet the specific needs of automotive workers around the world.

Because their safety is our business, automotive workers can rely on the world-class people, products and innovation that have made DuPont a trusted partner in personal protection.

With a wide range of industry-leading personal protective equipment (PPE) solutions and a global network of PPE specialists, technical experts and manufacturing, DuPont is uniquely suited to provide the protection and comfort every worker deserves to help them face a range of workplace hazards with confidence.

Our brands

Kevlar®
Gloves made with Kevlar® deliver industry-leading cut protection and built-in heat and flame resistance, while providing the dexterity and comfort workers want.

Nomex®
Nomex® offers a tested and proven portfolio of protective solutions that continues to meet or exceed global standards for heat, flame and arc flash protection.

Tyvek®
Tyvek® coveralls provide a protective barrier built into the material for increased protection to repel low concentrated inorganic liquids and aerosols while preventing solid particles from adhering.

Tychem®
Tychem® gloves and garments are part of a single system for complete chemical protection against a wide range of chemical hazards.

ProShield®
ProShield® offers a range of comfortable, soft and breathable limited-use garments that protect against non-hazardous dry particles and light liquid splash applications.
Workers in the automotive industry face many on-the-job hazards, including sharp edges; slick, oily surfaces; molten metal; punctures; heat contact; hazardous chemicals; and exposure to dust, solvents and paint spray—to name just a few.

Providing workers with the protection they need for the hazards they face is a major responsibility. DuPont Personal Protection has the in-depth knowledge, unparalleled expertise and broad portfolio of PPE solutions to help keep your workers safe.

DuPont PPE solutions are designed to meet or exceed global standards for protection and performance, including National Fire Protection Association (NFPA), International Safety Equipment Association (ISEA) and European Standards-International Organization for Standardization (EN-ISO).

To help you in the decision-making process, from risk assessment through implementation, we recommend using our 4P methodology:

**Predict**
- Analyze all activities required for each part of your operation.
- Identify all potential risks associated with each activity.
- Understand severity and likelihood of risks.

**Provide**
- Document PPE selected to address each residual risk.
- Build awareness with workers about their specific risks and selected PPE.
- Train workers on correct use of PPE.

**Protect**
- Select appropriate PPE to address residual risks.
- Ensure PPE meets performance and comfort requirements in the work environment.
- Remember, PPE is the last line of defense.

**Prevent**
- Evaluate ways to eliminate hazards.
- Make substitutions when possible.
- Reduce residual risks with engineering processes or operational changes.

Are your workers really protected?
Available PPE options

Metal stamping workers rely on gloves and sleeves that provide the best balance of cut resistance, puncture resistance, grip and dexterity. Our PPE solutions provide the protection and performance metal stamping workers deserve.

**Tasks**

- Loading and unloading presses
- Press shop operation

**Hazards**

- Sharp edges
- Slick, oily surfaces

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**Showa 4561**

Extremely lightweight, 15-gauge cut-resistant glove lined with Kevlar® with sponge nitrile palm coating, which provides excellent grip in oily conditions.

- EN 388:2016
- EN 407:2011

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**Showa S-TEX 581**

Lightweight and comfortable, 13-gauge glove lined with Kevlar® with high level of cut resistance designed for handling sharp objects. Microporous foam nitrile coating offers secure grip on oily objects without compromising dexterity or tactility.

- EN 388:2016

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**JS Gloves – ZOK**

10-gauge knitted sleeve made with 100% Kevlar® with thumbhole. Kevlar® heat-resistant yarn offers excellent cut and heat protection without compromising comfort and breathability.

- EN 388:2016
- EN 407:2011

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**Juba – SKST/25**

Lightweight and comfortable, 10-gauge Knitted sleeve made with 100% Kevlar® with thumbhole. Kevlar® heat-resistant yarn offers excellent cut and heat protection without compromising comfort and breathability.

- EN 388:2016
- EN 407:2011

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For a full list of PPE solutions, visit SafeSPEC™.
### Body shop

**Tasks**
- Loading parts into assembly system
- Welding touch-ups
- Visual and tactile inspection of parts

**Hazards**
- Sharp edges
- Slick, oily surfaces
- Molten metal
- Heat contact

**Available PPE options**

Body shop workers rely on gloves and sleeves that provide the best balance of cut resistance, puncture resistance, heat resistance, grip and dexterity. Our PPE solutions provide the protection and performance that body shop workers deserve.

- **MaxiFlex Cut 34-1743**
  - Extremely lightweight and dexterous 18-gauge Kevlar® liner provides a very fine glove, offering the maximum level of dexterity required for handling small components. Kevlar® material means no compromise for cut protection.
  - EN 388:2016 410ID
  - EN 407:2004 X500X

- **Showa S-TEX 581**
  - Lightweight, comfortable and robust 13-gauge Kevlar® liner provides excellent protection when handling heavy or sharp objects. Microporous foam nitrile coating offers secure grip on oily objects without compromising dexterity or tactility.
  - EN 388:2016 4X42E

- **JS Gloves – ZOK**
  - Lightweight and comfortable, 10-gauge knitted sleeve made with 100% Kevlar® with thumbhole. Kevlar® heat-resistant yarn offers excellent cut and heat protection without compromising comfort and breathability.
  - EN 388:2016 244X
  - EN 407:2004 3100XX

- **Juba – SKST/25**
  - Lightweight and comfortable, 10-gauge knitted sleeve made with 100% Kevlar® with thumbhole. Kevlar® heat-resistant yarn offers excellent cut and heat protection without compromising comfort and breathability.
  - EN 388:2016 1335C
  - EN 407:2004 X500X

For a full list of PPE solutions, visit SafeSPEC™.

### Engine assembly

**Tasks**
- Attaching small parts to engine block

**Hazards**
- Sharp edges
- Slick, oily surfaces

**Available PPE options**

Engine assembly workers rely on gloves and sleeves that provide the best balance of cut resistance, puncture resistance, grip and dexterity. Our PPE solutions provide the protection and performance that engine assembly workers deserve.

- **MaxiFlex Cut 34-1743**
  - Extremely lightweight and dexterous 18-gauge Kevlar® liner with micro foam nitrile palm coating allows tactility and ultimate dexterity for handling finer, smaller components securely and safely.
  - EN 388:2016 410ID
  - EN 407:2004 X500X

- **Showa 4561**
  - Extremely lightweight, 15-gauge cut resistant glove lined with Kevlar® with sponge nitrile palm coating, which provides excellent grip in oily conditions.
  - EN 388:2016 410ID
  - EN 407:2004 X500X

For a full list of PPE solutions, visit SafeSPEC™.
Paint shop

Tasks
- Sanding and spraying
- Correcting imperfections
- Touch-ups
- Visual and tactile surface inspection

Hazards
- Exposure to dust, solvents and paint spray

Available PPE options
Paint shop workers rely on gloves and sleeves that provide the best balance of protection, grip and dexterity, and coveralls that protect them from chemicals and solvents in the shop. Our PPE solutions provide the protection and performance that paint shop workers deserve.

- **Showa 4561**
  - Extremely lightweight, 15-gauge cut resistant glove lined with Kevlar® with sponge nitrile palm coating.
  - EN 388:2016
  - EN 407:2001
  - 4X32D
  - X2000X

- **MaxiFlex Cut 34-1743**
  - When dexterity and bare-hand feeling is required for inspection purposes, the extremely lightweight and dexterous 18-gauge glove lined with Kevlar® with micro-foam nitrile palm coating offers the best in comfort, flexibility and tactility.
  - EN 388:2016
  - EN 407:2004
  - 431TD
  - X3000X

- **Tyvek® 500 Xpert**
  - Coveralls composed of flash spun high density polyethylene, which creates a unique, nonwoven material available only from DuPont™ Tyvek® 500 Xpert provides Category III, Type 5 and 6 chemical protection against hazardous particles and light liquid aerosols while offering comfort for the wearer. It is low-linting, does not contain silicones, is anti-statically treated on both sides and has passed the crater test.

- **Tychem® NT480**
  - Lightweight, flock-lined 15 mil (0.38 mm) nitrile EN ISO 374-1:2016/Type A chemical protective gloves that provide durable and comfortable protection against a range of solvents and chemicals with a bisque finish for secure handling in both wet and dry conditions.
  - EN 388
  - EN ISO 374-1:2016
  - 3X41E
  - TYPE A

- **Tychem® NP570 CT**
  - 68 mil (1.73 mm) gloves that provide ANSI level 5 and EN cut level E cut protection (EN 388:2016), as well as superior protection against acids, caustics, solvents, greases and oils (EN ISO 374:2016/Type A). Designed with an an EN cut level 5, 13-gauge engineered knit liner for maximum comfort and endurance.
  - EN 388
  - EN ISO 374-1
  - ANSI CUT A5
  - A042MT

For a full list of PPE solutions, visit SafeSPEC™.

Final assembly

Tasks
- Joining body of frame with chassis or sub frame
- Connecting body to mechanical components
- Installing the wiring harness
- Installation of interior
- Full vehicle final inspection
- Remediation of faults

Hazards
- Electrical contact
- Sharp edges
- Heat contact
- Impact
- Punctures

Available PPE options
Final assembly workers rely on gloves that provide the best balance of cut resistance, puncture resistance, heat resistance, grip and dexterity. Our PPE solutions provide the protection and performance that final assembly workers deserve.

- **Showa 4561**
  - High levels of heat and cut protection are provided by the lightweight, 15-gauge cut resistant Kevlar® liner without compromising on dexterity, making this an ideal choice installation of components in confined spaces.
  - EN 388:2016
  - EN 407:2001
  - 4X32D
  - X2000X

- **Showa S-TEX 581**
  - Lightweight, comfortable and robust 10-gauge cut level 11 Kevlar® liner with microporous foamed nitrile palm coating provides excellent protection when handling heavy and sharp objects securely is paramount.
  - EN 388:2016
  - EN 407:2004
  - 441GE

- **Showa 4561**
  - 18-gauge glove lined with Kevlar® with micro-foam nitrile palm coating provides a very fine glove for handling small wires and working in tight spaces.
  - EN 388:2016
  - EN 407:2004
  - 431TD
  - X3000X

For a full list of PPE solutions, visit SafeSPEC™.
Available PPE options

Logistics workers rely on gloves that provide the best balance of cut resistance, puncture resistance, grip and dexterity. Our PPE solutions provide the protection and performance that logistics workers deserve.

MaxiFlex Cut 34-1743
Extremely lightweight and dexterous 18-gauge Kevlar® lined glove with micro-foam nitrile palm coating.

EN 388:2016 EN 407:2004
4X31D X2XXXX

Showa 4561
Extremely lightweight, 15-gauge cut-resistant glove lined with Kevlar® with sponge nitrile palm coating offers superb grip in oily conditions allowing secure handling of parts, and high levels of cut resistance for protections against sharp objects.

4X32D X2XXXX

Showa S-TEX 581
Lightweight and comfortable, 13-gauge glove lined with Kevlar® with microporous foamed nitrile palm coating.

EN 388:2016
4X42E

MaxiFlex Cut 34-1743
Extremely lightweight and dexterous 18-gauge Kevlar® lined glove with micro-foam nitrile palm coating.

EN 388:2016 EN 407:2004
4X31D X2XXXX

Showa 4561
Extremely lightweight, 15-gauge cut-resistant glove lined with Kevlar® with sponge nitrile palm coating offers superb grip in oily conditions allowing secure handling of parts, and high levels of cut resistance for protections against sharp objects.

4X32D X2XXXX

Showa S-TEX 581
Lightweight and comfortable, 13-gauge glove lined with Kevlar® with microporous foamed nitrile palm coating.

EN 388:2016
4X42E

Maintenance

Maintenance workers rely on gloves that provide the best balance of multi-hazard protection, grip and dexterity, and coveralls that protect them from chemicals, solvents and electrical hazards. Our PPE solutions provide the protection and performance that maintenance workers deserve.

Showa 240
Lightweight and comfortable, 13-gauge glove lined with Kevlar® with sponge neoprene palm coating. Flame-resistant Kevlar® enables protection against arc flash up to level 2. Flat dipped sponge neoprene coating provides enhanced grip and the anatomical design helps prevent hand fatigue.

4X32C 4222DA

Nomex® Essential Arc
Nomex® Essential Arc is engineered to provide arc flash protection for workers performing electrical tasks. Along with its mechanical properties, it also has enhanced durability, which means fewer garment replacements. Nomex® is resistant to many chemicals and oil stains are washed out easier than with standard cotton garments. This fabric meets the standards ISO 11612, IEC 61482-2 and EN 1149.

EN ISO 11612 IEC 61482-1-1
ATPV >8 cal/cm²
TYPE 5-B

ProShield® 20 SFR
ProShield® 20 SFR garments are made from a non-halogenated, flame-retardant polypropylene SMS nonwoven fabric, providing limited protection against flame spread (EN 14116 index 1) in addition to protection against particles and limited liquid splashes or sprays of water-based liquids (compliant with Category III, types 5 & 6). This coverall should be worn on top of a primary FR garment, e.g., a garment made out of Nomex® Essential Arc.

EN 14116
A1 B1 C1 F1
EN 11612
Index 1

Showa S-TEX 581
Lightweight and comfortable, 13-gauge glove lined with Kevlar® with microporous foamed nitrile palm coating.

EN 388:2016
4X42E
MaxiFlex Cut 34-1743
Extremely lightweight and dexterous 18-gauge glove lined with Kevlar® with micro-foam nitrile palm coating.

Tyvek® 500 Xpert
Coveralls composed of flash spun high density polyethylene, which creates a unique, nonwoven material available only from DuPont™ Tyvek® Xpert provides Category III, Type 5 and 6 chemical protection and is anti-statically treated on both sides while being comfortable.

Tyvek® 800 J
A limited-use Type 3 protective garment that provides an effective barrier against inorganic chemicals, greater than one-micron hazardous particles, oil repellency and liquids under pressure. Tyvek® 800 J also provides protection against electrostatic discharge and Category III, Type 3-B, 4-B, 5-B and 6-B chemical protection.

Tychem® NT420
With a thickness of 8 mil (0.2 mm), Tychem® NT420 EN ISO 374-1:2016/Type B chemical protective gloves offer a powder-free option that is perfect for jobs requiring the utmost in barrier protection against most oil, grease and hydrocarbons while retaining tactile discrimination. Their "second-skin" feel and low modulus formulation significantly reduces hand fatigue.

Tychem® NT480
Lightweight, EN ISO 374-1:2016/Type A chemical protective flock-lined 15 mil (0.38 mm) nitrile gloves that provide durable and comfortable protection against a range of solvents and chemicals with a bisque finish for secure handling in both wet and dry conditions.
With operations in 96 countries and technical centers staffed with experts across the globe, we are here to provide you with the support you need when choosing the right PPE.

Our Thermo-Man® (life-sized thermal burn injury evaluation) and Arc-Man® (arc flash injury evaluation) units help demonstrate and educate safety managers about the durability, heat and flame resistance that DuPont Safety PPE delivers.
We’re here to help

DuPont™ SafeSPEC™, our powerful web-based tool, can assist you with finding the appropriate DuPont garments for chemical, controlled environment, thermal and mechanical hazards.

SafeSPEC™ has a full permeation test database and allows you to search by either hazard or industry to help you find the right protection for the job at hand.

safespec.dupont.co.uk