When it comes to turnout gear, it's what's inside that matters most.
DUPONT™ NOMEX® AND KEVLAR®—
PROTECTING YOU IN EACH LAYER OF YOUR
TURNOUT GEAR.

Turnout gear made with DuPont technologies combines the proven thermal protection of DuPont™ Nomex® brand fiber with the durability and toughness of DuPont™ Kevlar®, the fiber that’s five times stronger than steel on an equal-weight basis. Nomex® and Kevlar® provide premium protection against intense heat and flame, giving you gear that is tough and durable, yet comfortable and breathable to help guard against fatigue and heat stress. It all adds up to giving your team the flexibility to work a vehicle accident, ventilate a roof or drag a hose line, and the protection to fight a 3-alarm blaze.

Get the inside story on turnout gear and DuPont innovation.
Over 70% of your turnout gear is made with DuPont™ Nomex® and Kevlar®. Together, they are working hard to help keep your professionals safe, inside and out. Helping to protect them against burn injuries from high temperatures, compression, contact, and even flashover conditions. And helping to provide outstanding THL and excellent TPP. So you can rest assured that our scientists and engineers have paid attention to every detail.

BE DUPONT READY
1. **THE OUTER SHELL.**
**OUTER SHELLS: THE FIRST LINE OF DEFENSE.**

Outer shells constructed with Nomex® and Kevlar® fibers and filament yarns are engineered together to form materials that stand up to heat, stay strong, and protect the inner components and—something more important—you. Kevlar® filament is used in premium fabrics to reduce fabric profile while achieving higher strength and improved flame durability. Durable DuPont™ Teflon® HT treatments keep the gear dry and light and help prevent water from compromising valuable air layers that provide the bulk of the garments' thermal insulation. That means your professionals have a turnout coat that’s tough and flame resistant on the outside to help keep what’s inside safe.

<table>
<thead>
<tr>
<th>OUTER SHELL</th>
<th>NOMEX**</th>
<th>KEVLAR® BLENDS*</th>
<th>KEVLAR® FILAMENT REINFORCED*</th>
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<tbody>
<tr>
<td>FABRIC DESCRIPTION</td>
<td>NOMEX® IIIA OUTER SHELL, PLAIN WEAVE OR LIGHTWEIGHT RIP STOP CONSTRUCTION</td>
<td>KEVLAR® BLENDED OUTER SHELLS, RIP STOP CONSTRUCTION</td>
<td>KEVLAR® FILAMENT REINFORCED OUTER SHELLS IN MODIFIED PLAIN WEAVE AND TWILL CONSTRUCTIONS</td>
</tr>
<tr>
<td>OVERALL BENEFITS</td>
<td>THERMAL PROTECTION DURABILITY TOUGH FABRICS GOOD LIGHTFASTNESS WATER REPELLENT LARGE COLOR RANGE</td>
<td>THERMAL PROTECTION DURABILITY TOUGH FABRICS GOOD LIGHTFASTNESS WATER REPELLENT IMPROVED CHAR/FLAME DURABILITY CUT RESISTANT ABRASION RESISTANT LIGHTWEIGHT</td>
<td>THERMAL PROTECTION DURABILITY TOUGH FABRICS GOOD LIGHTFASTNESS WATER REPELLENT IMPROVED CHAR/FLAME DURABILITY CUT RESISTANT ABRASION RESISTANT LIGHTWEIGHT HIGH STRENGTH HIGH FLEXIBILITY</td>
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*Typical fabric benefits.
2. THE MOISTURE BARRIER.
MOISTURE BARRIERS: PROTECTING AGAINST CHEMICALS.

Moisture barriers made with Nomex® fabrics, Nomex® E89™ and other nonwovens are proven under real-world conditions and rigorous testing standards, making them the choice of trusted manufacturers everywhere. They provide strong flame-resistant substrates for liquid-impermeable films. The moisture barrier helps protect against the intrusion of water, chemicals and viral agents. Yet these barriers are also lightweight and breathable, to help reduce overall heat stress during strenuous activities. All to help your professionals stay drier, more comfortable and ready for even the most difficult situations.
3. THE THERMAL LINER.
Components in all layers include DuPont™ Nomex® and Kevlar®, Nomex® E89™ or Nomex® On Demand™

**Thermal liner material:** Nomex® On Demand™ and Nomex® E89™ technologies.

**Moisture barrier material:** Nomex® E89™ technologies.

**Outer shell material:** Kevlar® fibers and filaments.

Look for DuPont products on your inside label and on your product hangtag.

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**THERMAL LINERS: THE MOST CRITICAL COMPONENT.**

Thermal liners provide the majority of your turnout system’s thermal protection. Nomex® and Kevlar® fiber batts and Nomex® E89™ nonwovens, combined with Nomex® fiber and filament face cloths, provide durable, flexible, heat-insulating components. Multilayer Nomex® E89™ based thermal liners are among the thinnest, most flexible and breathable available. Nomex® On Demand™ is “smart” thermal liner technology that automatically activates at 250 degrees Fahrenheit to trap more air for superior thermal insulation. Face cloths with Nomex® filament help reduce surface friction, improving overall garment mobility. Liner water-wicking or repellent finishes improve comfort and moisture management, and reduce drying time. The thermal liner is protection where it matters most, and it’s good to know DuPont™ Nomex® and Kevlar® are there when it matters most.

<table>
<thead>
<tr>
<th>THERMAL LINER COMPONENT</th>
<th>NEEDLED BATT</th>
<th>MULTI-LAYER NONWOVENS</th>
<th>MULTI-LAYER WITH ACTIVE NONWOVEN</th>
<th>FACE CLOTH COMPONENT</th>
<th>SPUN YARN WOVEN FACE CLOTH</th>
<th>SPUN/FILAMENT FACE CLOTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUPONT MATERIALS</td>
<td>NOMEX® AND KEVLAR® FIBERS</td>
<td>NOMEX® E89™</td>
<td>NOMEX® ON DEMAND™</td>
<td>NOMEX® IIIA FIBER</td>
<td>NOMEX® FILAMENT YARNS</td>
<td></td>
</tr>
<tr>
<td>OVERALL BENEFITS</td>
<td>HIGH THERMAL INSULATION MODERATE COST</td>
<td>RANGE OF THERMAL INSULATION HIGH THL FLEXIBLE DRIES RAPIDLY</td>
<td>ACTIVE RANGE OF THERMAL INSULATION RANGE OF THL FLEXIBLE DRIES RAPIDLY</td>
<td>DURABLE GOOD MOISTURE MANAGEMENT</td>
<td>DURABLE HIGH STRENGTH LOW FRICTION GOOD MOISTURE MANAGEMENT</td>
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THE FIRST CHOICE
FOR ALL YOUR PROTECTION NEEDS.

Whether thermal protection, durability, mobility, comfort, or decreased bulk, weight and heat stress is your priority, DuPont is committed to delivering an entire system designed to meet your exact performance requirements. DuPont materials are also protecting professionals even when the fire is out. Stationwear made with Nomex® is durable, comfortable and NFPA 1975 compliant. DuPont™ Tychem® chemical protective garments are helping keep first responders safe. And hazmat teams turn to DuPont™ Tychem® ThermoPro for a single-layer garment that helps protect against the triple threat of flash fires, chemicals and electric arc.

DUPONT™ NOMEX® AND KEVLAR®—THE INNOVATIONS IN PERFORMANCE CONTINUE.

DuPont materials have been a leading choice in the fire service market for over 40 years. It all began with the material firefighters ask for by name, DuPont™ Nomex®. But the innovation continues. Our scientists and engineers participate in committees like the NFPA to help create the standards. We’re also developing new solutions like Nomex® On Demand™ that automatically activates at 250 degrees Fahrenheit to give you increased thermal performance when you need it most. During routine conditions, it remains thin, breathable and flexible for exceptional mobility.

For more information on DuPont™ Nomex® and Kevlar® for fire service and the range of DuPont solutions to help keep your people safe, visit personalprotection.dupont.com or call 1-800-931-3456.

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