

# DuPont™ Tychem® ThermoPro

A SINGLE-LAYER GARMENT THAT RESISTS  
BOTH FLASH FIRES AND CHEMICALS

**Your HAZMAT team deserves the latest innovation in proven protection.**

To protect others, HAZMAT teams need the best protection for themselves. They need a garment that prepares them for the dual hazards of flash fires and chemicals. But choosing the best garment means considering many other factors, like comfort, durability, cost-effectiveness and safety. For these reasons and others, we've taken 40 years of industrial and firefighting technology, experience and innovation and created a single-layer suit that helps protect against flash fires and chemicals — Tychem® ThermoPro.



*The miracles of science™*



TP188T - Hooded respirator fit coverall (shown)  
 TP189T - Hooded respirator fit coverall with attached socks

NFPA 2112 Performance Tests	NFPA 2112 Criteria	Tychem® ThermoPro*
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<b>Vertical Flammability</b>		
- char length (MD/CD)	<4"	1.2" x 1.4"
- after flame	<2 sec.	0 sec.

<b>Oven Shrinkage (MD/CD)</b>	<10%	8.1%/7.8%
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<b>Thermal Protective Performance</b>		
- contact	>3 cal/cm <sup>2</sup>	17 cal/cm <sup>2</sup>
- spaced	>6 cal/cm <sup>2</sup>	20 cal/cm <sup>2</sup>

<b>Thermal Manikin</b>		
Predicted body surface burn @ 3 sec. @ 2 cal/cm <sup>2</sup>	<50%	16%

\*Specimens conditioned and tested as specified in NFPA 2112

**PHYSICAL PROPERTIES of TYCHEM® THERMOPRO**

Property	Value	Method
Basis Weight	8.1 oz/yd <sup>2</sup>	ASTM D3776
Thickness	32 mils	ASTM D1777
Grab Tensile	243/231 lbf MD/CD	ASTM D751
Trapezoidal Tear	51/34 lbf MD/CD	ASTM D5733
Puncture, Propagation, Tear	27.7/27.9 lbf MD/CD	ASTM D2582
Ball Burst	178 lbf	ASTM D751
Puncture	2509 g	ASTM D1342
Cold Flex MD/CD	0.097/0.097 in. lb.	ASTM D747
Seam Strength	63.1 lbf/2 in.	ASTM D751
Closure Strength	16.5 lbf/2 in.	ASTM D751

**PROTECTING YOUR TEAM FROM  
 A RANGE OF HAZARDOUS CHEMICALS.**

From basic chemical handling and remediation to secondary emergency response tasks, we offer a complete range of chemical protection fabrics and garments. It's this knowledge and experience that's made us a leader in chemical protective garments. Now we've put it to work for your HAZMAT team by creating Tychem® ThermoPro. This fabric delivers permeation protection against a broad range of toxic industrial chemicals and chemical warfare agents.

Because time matters most, Tychem® ThermoPro is tested to provide at least one-hour breakthrough protection against 20 of the 21 ASTM F1001 chemicals.

**THE FIRST NAME IN  
 FLASH-FIRE RESISTANCE.**

NOMEX®, the name firefighters have valued for years, is engineered into each Tychem® ThermoPro garment. So it doesn't melt or drip when exposed to heat or flame, while increasing escape time from flash-fire conditions.

Tychem® ThermoPro has been certified to meet NFPA 2112, Standard on Flame Resistant Garments for Protection of Industrial Personnel against Flash Fire. And although Tychem® ThermoPro is constructed for heavy use, it's also lightweight and easy to wear.

**DEDICATED TO INNOVATION AND SAFETY.**

Like the people who value our garments, we're constantly looking for new ways to improve safety and protect lives. As conditions change, we're dedicated to developing the materials that can help you protect your team even under the most hazardous conditions.

**PERMEATION DATA**

Chemical	Breakthrough Time (minutes)
Acetone	>480
Acetonitrile	>480
Ammonia gas	>480
1,3-Butadiene	>480
Carbon disulfide	>480
Chlorine gas	>480
Dichloromethane	imm.
Diethylamine	>480
Dimethylformamide	>480
Ethyl acetate	>480
Ethylene oxide gas	>480
n-Hexane	>480
Hydrogen Chloride Gas	>480
Methanol	>480
Methyl Chloride	>480
Nitrobenzene	>480
Sodium hydroxide, 50%	>480
Sulfuric acid, 98%	>480
Tetrachloroethylene	>480
Tetrahydrofuran	>480
Toluene	>480

**To purchase Tychem® ThermoPro garments or for more information, please call 800 931-3456 or visit [www.personalprotectiondupont.com](http://www.personalprotectiondupont.com)**



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