

# Tychem® 2000



## Chemical protective clothing

### Lightweight protection from liquid splashes and bloodborne pathogens

DuPont™ Tychem® 2000 (formerly Tychem® QC) provides excellent resistance against biohazards such as blood, body fluid and viral contaminants, and passes ASTM F1670 for blood penetration and ASTM F1671 for viral penetration. Tychem® 2000 disposable coveralls and long-sleeved aprons provide protection in pandemic preparedness activities against COVID-19 when paired with appropriate masks, gloves and eye protection.

A comfortable, lightweight and durable fabric, Tychem® 2000 utilizes the strength of DuPont™ Tyvek® fabric and a polyethylene coating, making this one of the more comfortable and protective garments available. Tychem® 2000 is used for light splash protection in a variety of industrial environments, including petroleum refining, pulp and paper manufacturing, food processing, chemical processing and pharmaceutical manufacturing.<sup>1</sup>

### Durability

Rugged and durable, Tychem® 2000 is a tough barrier fabric that resists punctures and tears.

Tychem® 2000 is the only polyethylene coated Tyvek® fabric backed by DuPont quality standards.

### Visibility

When working in hazardous conditions, the color and visibility of protective apparel can greatly affect the overall safety of the worker. When workers wear high-visibility colors, it improves how well they are seen and distinguished from the background. Safety is enhanced when workers can clearly see coworkers. The Tychem® 2000 yellow color is often a preferred choice because it provides contrast across a wide range of natural backgrounds. In a laboratory study, Tychem® 2000 received high overall ratings for visibility in dim light, bright light and contrast with natural backgrounds.<sup>2</sup>

### Permeation

Tychem® 2000 fabric provides at least 30 minutes of protection against >40 chemical challenges. DuPont testing data provides detailed information on how well this fabric performs against various chemical classes.<sup>3</sup>

Although the uncoated Tyvek® substrate performs well in tests with light splash with low pressure, Tychem® 2000 passes penetration tests that include high pressures.



When you need more than dry particulate protection, consider Tychem® 2000 for protection from light liquid splashes and occasional contact with pesticides, inorganic acids, alkalis and acids.

## Typical physical properties of Tychem® 2000

Property	Test method	Typical results
Thickness	ASTM D1777	10 mils
Basis weight	ASTM D3776	2.5 oz/yd <sup>2</sup>
Burst strength - Mullen	ASTM D3786	68 psi
Tear resistance - trap tear (MD)	ASTM D5587	6.4 lb <sub>f</sub>
Tear resistance - trap tear (CD)	ASTM D5587	5 lb <sub>f</sub>
Breaking strength - grab (MD)	ASTM D5034	39 lb <sub>f</sub>
Breaking strength - grab (CD)	ASTM D5034	43 lb <sub>f</sub>
Wearing apparel flammability	16 CFR 1610	Class 1

CD = cross direction  
MD = machine direction

<sup>1</sup> General Garment Specification/Wear Guidelines: Potential for light splash AND no pressure — Select serged seam construction for small volumes of fluids with minimal or no pressure.

Potential for light to moderate splash — Select bound seams that are tightly sewn and have a reinforced outer binding to enhance seam strength and barrier quality.

Potential for moderate to heavy splash — Select sewn and taped seams that offer higher strength and penetration resistance. All apparel used in liquid applications

should have bound or sealed seams. A storm flap that covers zipper/closure area should also be considered. In the event of a splash or drench, the contaminated garment should be removed and clean apparel donned.

<sup>2</sup> ASTM E308-95 — "Standard Practice for Computing Colors of Objects by Using the CEI System."

<sup>3</sup> DuPont Publication — "Permeation Guide for DuPont™ Tychem® & DuPont™ StaySafe® Protective Fabrics."



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